

165

170

<210> 29954
 <211> 746
 <212> PRT
 <213> A.fumigatus

<400> 29954

Val	Val	Ser	Tyr	Thr	Gly	Pro	Pro	Asn	Arg	Leu	Pro	Gln	Phe	Glu	Tyr
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Glu	Pro	Thr	Gln	Lys	Val	Pro	Leu	Lys	Ala	Asn	Met	Trp	Leu	Glu	Thr
			20					25					30		
Val	Ile	Thr	Leu	Leu	Leu	Arg	Glu	Lys	Asn	Trp	Glu	Ile	Tyr	Ser	Tyr
	35					40						45			
Val	Leu	Thr	His	Leu	Ala	Pro	Gln	Leu	Ser	Asn	Arg	Gly	Leu	Phe	Arg
	50					55					60				
Asn	Ala	Val	Pro	Gln	Ile	Lys	Leu	Leu	Arg	Ser	Val	Met	Cys	Asp	Gln
65				70					75						80
Val	Lys	Asn	Glu	Ser	Phe	Arg	Glu	Pro	Pro	Val	Ser	Thr	Gly	Val	Lys
				85				90						95	
Lys	Thr	Asp	Val	Ala	Gly	Tyr	Ile	Phe	Asp	Cys	Leu	Ser	Val	Leu	Val
			100					105					110		
Ser	Tyr	His	Glu	Val	Phe	Ala	Lys	Ser	Glu	Glu	Asp	Glu	Leu	Val	Arg
		115					120					125			
Ala	Phe	Met	Met	Gly	Ile	Ile	Gly	Ser	Trp	Gly	Asp	Thr	Ser	Arg	Arg
	130						135				140				
Cys	Val	His	Ala	Leu	Ser	Val	Cys	Cys	His	Glu	Ile	Pro	Leu	Ser	Val
145				150						155					160
Thr	Lys	Ser	Leu	Asn	Gly	Ile	Phe	Asp	Lys	Met	Ala	Lys	Val	Ile	Thr
				165				170						175	
Met	Ser	Asn	Leu	Ala	Val	His	Ile	Leu	Glu	Phe	Leu	Ser	Leu	Leu	Ala
			180					185					190		
Arg	Leu	Pro	Asp	Val	Tyr	Val	Asn	Leu	Arg	Asp	Glu	Glu	Ile	Arg	Thr
		195					200					205			
Val	Phe	Gly	Ile	Cys	Ile	Arg	Phe	Leu	Gln	Thr	Ser	Arg	Glu	His	Arg
	210					215					220				
Val	Arg	Ala	Gly	Asp	Ser	Ser	Asn	Arg	Pro	Ser	Gln	Thr	Ser	Ser	Arg
225				230						235					240
Leu	Ala	Gly	Gly	Val	Lys	Glu	Ile	Ala	Thr	Pro	Gly	Glu	Pro	Ser	Asp
				245					250					255	
Pro	Ser	Gln	Gln	Asp	Gly	Met	Ser	Arg	Tyr	Ile	Tyr	Thr	Leu	Thr	His
			260					265					270		
His	Val	Met	Val	Phe	Trp	Phe	Leu	Ser	Leu	Lys	Leu	Gln	Asp	Arg	Ala
		275					280					285			
Lys	His	Val	Asn	Trp	Ile	Thr	Ser	Arg	Leu	Ile	Phe	Arg	Asp	Glu	Tyr
	290					295					300				
Gly	Gln	Glu	Arg	Val	Glu	Gln	Ser	Gln	Val	Phe	Ile	Asp	Leu	Met	
305				310					315					320	
Gln	Arg	Val	Ala	Phe	Ser	Asp	Leu	Gly	Glu	Thr	Ile	Pro	Tyr	Glu	Thr
			325					330						335	
Phe	Pro	Pro	Ser	Pro	Ser	Asp	Gly	Pro	Val	Ser	Lys	Lys	Ser	Trp	Val
			340				345						350		
Val	Gly	Met	Ser	Ile	Val	Thr	Val	Glu	Thr	Ala	Gly	Val	Ser	Gly	Leu
		355				360						365			
Thr	Gln	Ile	Thr	Lys	Arg	Gln	Ala	Ser	Gly	Thr	Thr	Tyr	Ala	Met	Tyr
	370					375						380			

Gln Gln Arg Thr Ala Pro Val Leu Pro His Gln Val Pro Thr Ser Pro
 385 390 395 400
 Asp Ala His Thr His Ser Asp Asp Met Arg Thr Ala Val Leu Pro Ser
 405 410 415
 His Val Leu Leu Gln Leu Thr Thr Thr Ala Phe Pro Thr Pro Thr Val
 420 425 430
 Met Gln Pro Ile Pro Leu Pro Asp Asp Asp Met Thr Arg Arg Ala Leu
 435 440 445
 Ser Ile Phe Asp Arg Asn Asp Ile Val Asp Gly His Lys Ile Gly Val
 450 455 460
 Ile Tyr Ile Asp Asp Gly Gln Thr Thr Glu Ser Glu Ile Leu Ser Asn
 465 470 475 480
 Thr Ile Gly Ser Pro Asp Tyr Glu Tyr Phe Leu Ser Gly Leu Gly Thr
 485 490 495
 Lys Val Pro Ile Arg Gly Ala Gln Phe Asn Thr Gln Gly Leu His Pro
 500 505 510
 Asp Val Asp Gly Glu Phe Thr Tyr Ala Trp Arg Asp Arg Val Thr Glu
 515 520 525
 Ile Val Tyr His Val Ala Thr Met Met Pro Thr Asp Phe Asp Arg Asp
 530 535 540
 Pro Ala Cys Ile Asn Lys Lys Arg His Ile Gly Asn Asp Phe Val Asn
 545 550 555 560
 Ile Ile Phe Asn Arg Ser Asn Val Pro Phe Asn Phe Asn Thr Ile Ala
 565 570 575
 Ser Gln Phe Asn Phe Ile Asn Ile Ile Ile Ser Pro Val Cys Arg Ile
 580 585 590
 Ala Ser Ala Pro Gly Ala Ala Thr Pro Thr Pro Ser Asp Phe Glu Arg
 595 600 605
 Thr Ser Tyr Thr Val Lys Val Met Ser Lys Pro Gly Leu Pro Glu Ile
 610 615 620
 Ser Pro Ala Ser Thr Ala Lys Val Ile Ser Gly Lys Asn Leu Ala Ala
 625 630 635 640
 Phe Val Arg Ile Leu Ala Leu Asn Ala Ser Val Phe Ser Leu Val Trp
 645 650 655
 Asn Ser Gln Gly Gly Glu His Val Ser Ser Trp Arg Asn Arg Leu Arg
 660 665 670
 Glu Ile Lys Arg Leu Arg Glu Arg Ala Leu Gly Ser Gln Leu Gln Met
 675 680 685
 Ser Glu Ala Ala Glu Gly Ala Tyr Pro Gly Gln Arg Arg Asn Thr Lys
 690 695 700
 Pro Asn Ile Phe Ser Glu Glu Val Pro Ser Arg Ile Thr Pro Val Lys
 705 710 715 720
 Thr Asp Phe Ala Thr Asp Trp Asn Ala Ala Ala Asp Ala Asn Ile Leu
 725 730 735
 Gln Asn Leu Asp Phe Ser Arg Trp Gly Arg
 740 745

<210> 29955

<211> 87

<212> PRT

<213> A.fumigatus

<400> 29955

Thr Pro Thr Lys Ser Pro Ser Arg Asp Thr Pro Gly Thr Val Ile Thr
 1 5 10 15
 Phe His Val Val Arg Phe Ser Pro Ile Pro Leu Met Ala Asp Ala Leu

<210> 29956

<211> 755

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (735)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 29956

Phe	Val	Val	Ser	Tyr	Ser	Gly	Ser	Cys	Val	Arg	Ala	Leu	Gly	Asp	Asp
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Val	Phe	Val	Leu	Gln	Thr	Leu	Met	Ala	Glu	Thr	Asp	Thr	Gln	Cys	His
			20					25					30		
Thr	Gly	Asn	Gly	Gly	Leu	Ala	Arg	Ile	Arg	Ile	Asp	Glu	Ala	Arg	Val
		35					40					45			
Ile	Leu	Gln	Val	Ser	Val	Asp	His	Met	Arg	Asp	Leu	Ala	Phe	Arg	His
	50					55					60				
Pro	Ser	Arg	Ala	Ser	Ala	Leu	Arg	Gly	Ile	Leu	Leu	Asn	Met	Leu	Leu
65					70					75					80
Gly	Phe	His	Pro	Val	Ala	Ser	Lys	Ile	Tyr	Ala	Leu	Ser	Val	Asn	Pro
				85					90					95	
Arg	Asp	Cys	Glu	Lys	Trp	Ser	Glu	Tyr	Tyr	Arg	Thr	Ala	Met	Ala	Asp
			100					105					110		
Ile	Lys	Ala	His	Gly	Tyr	Phe	Gln	Lys	Ile	Met	Ala	Leu	Pro	Ser	Arg
		115					120					125			
Pro	Ala	Gly	Ser	Ser	Asp	Ser	Asn	Gln	Pro	Pro	Ile	Met	Leu	Asn	Met
	130					135					140				
Thr	Ala	Ile	Phe	Gln	Glu	Gln	Arg	Glu	Ala	Glu	Ser	Leu	Ala	Arg	Asn
145					150					155					160
Tyr	His	Glu	Lys	Ser	Asn	Met	Ala	Tyr	Ser	Glu	Leu	Glu	Lys	Gly	Asn
				165					170					175	
Ile	Asp	Gly	Tyr	Glu	Ala	His	Leu	Gln	Glu	Phe	Leu	Asp	Asp	Ser	Ser
			180					185					190		
Ser	Ser	Gly	Ala	Pro	Gln	Asp	Leu	Val	Ala	Thr	Phe	Arg	Leu	Leu	Thr
		195				200						205			
Leu	Ser	Ser	Leu	Gly	Asp	Phe	Glu	Gln	Ala	Lys	Thr	Glu	Leu	Pro	Arg
		210				215					220				
Ala	Val	Pro	Arg	Leu	Phe	Gly	Gln	Glu	Glu	Asn	Leu	Thr	Glu	Arg	Cys
225					230					235					240
Met	Arg	Leu	Leu	His	Met	Glu	Gly	Gln	Val	Ile	Asp	His	Ser	Ile	Gln
				245					250					255	
Ile	Asp	Ser	Asn	Gln	Ala	Leu	Arg	Ala	Ile	Ser	Leu	Cys	Phe	Leu	Cys
			260					265					270		
Arg	Asp	Trp	Asp	Arg	Trp	Ser	Tyr	Leu	Leu	Glu	Thr	Ile	Ser	Gln	Asn

275	280	285
Val Pro Gly Tyr Leu Asp	Leu Asp Glu Met Arg Asp	His Ser Thr Asp
290	295	300
Trp Met Leu Ala Thr Trp	Val Gly Ala Ile Tyr Asp	His Asn Gly Gln
305	310	315
Tyr Asp Thr Ala Phe Glu	Trp Tyr Leu Trp Ala Asn	Glu Val Met Glu
325	330	335
Thr His Arg Glu Gly Thr	Ser Asp Asp Glu Ala Arg	Arg Gly Ser Gln
340	345	350
Ser Ser Ile His Gly Gly	Glu Leu Phe Ala Gly	Leu Ile Arg Val Cys
355	360	365
Leu Arg Tyr Ala Ser Leu	Ser Thr Thr Asn Pro	Gln Pro Lys Ala Pro
370	375	380
Ile Asp Trp Gly Leu Pro	Ala Pro Asn Trp Thr	Gly Gln Ala Leu Val
385	390	395
Phe Leu Glu Arg Thr Phe	Ala Arg Thr Leu Leu	Glu Phe Leu Ile Gly
405	410	415
Arg Ser Lys Thr Asp Pro	Glu Ile Ile Glu Ala	Trp Ala Ala Phe Thr
420	425	430
Tyr Ile Asn Arg Gln Ile	Thr Asp Leu Thr Leu	Leu Leu Pro Asn Lys
435	440	445
Ser Glu Asp Glu Gly Lys	Lys Ser Arg Val Glu	Ile Glu Leu Asp Arg
450	455	460
Leu Arg Ala Glu Ser Glu	Lys Arg Pro Met Pro	Asp Ala Gln Ile Ser
465	470	475
Gln Val Thr Arg Ser Leu	Leu Ser Ala Thr Arg	Phe Gln Ile Asp Pro
485	490	495
Glu Ser Ile Cys Arg Val	Ile Pro Glu Asp Ala	Val Val Val Glu Met
500	505	510
Asn Leu Ser Arg Gly Gly	Leu Ile Leu Phe Cys	Leu Thr Thr Ala Gly
515	520	525
Val Val Ser Ile His Gln	Ser Glu Arg Thr Ile	Leu Asp Leu Arg Arg
530	535	540
Gln Val Leu Arg Tyr Val	Lys Arg Leu Glu Asn	Asp Gln Cys Ser Arg
545	550	555
Asp Glu Leu Ser Ser Leu	Ile Met Gly Ile Ser	Arg Glu Ile Ile His
565	570	575
Pro Phe Glu Glu Val Ile	Trp Gln Lys Asp His	Val Ile Phe Val Pro
580	585	590
Thr Gln Glu Phe Asn Phe	Phe Pro Phe Ser Ala	Leu Thr Phe Asn Asp
595	600	605
Lys Pro Leu Phe Leu Glu	Lys Ala Val Ser Gln	Val Pro Ser Leu Ala
610	615	620
Thr Leu Glu Gln Ile Val	Lys Arg Pro His Pro	Gly Met Leu Pro Glu
625	630	635
Leu Ser Thr Ile Val Asn	Thr His Glu Pro Asp	Ala Ser Gly Pro Lys
645	650	655
His Ala Gly Glu Pro Val	Pro Met Val Gly Val	Gly Ala Ala Val Val
660	665	670
Ser His Ile Phe Ser Val	Pro Pro Thr Asp Ala	Arg Tyr Leu Glu Glu
675	680	685
Thr Gly Phe Lys Asn Ile	Phe Glu Asn Ser Glu	Ile Val Tyr Ile Gly
690	695	700
Thr His Gly Ala Lys His	Glu Leu Ser Pro Trp	Gln Ser Cys Ile Asn
705	710	715
Leu Lys Asp Glu Phe Arg	Val Met Glu Val Ala	Lys Phe Ser Xaa Lys

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<210> 29957
<211> 115
<212> PRT
<213> A.fumigatus
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<210> 29958
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<212> PRT
<213> A.fumigatus
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<210> 29959
<211> 184
<212> PRT
<213> A.fumigatus
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<400> 29959

His Thr Ser Gln Leu Arg Leu Gly Ile Lys Asp Ile Phe Asp Leu Ala
 1 5 10 15
 Gly Leu Arg Thr Gly Gly Gly Asn Arg Ala Phe Tyr Asn Leu Tyr Pro
 20 25 30
 Pro Arg Asn Thr Thr Ala Pro Ala Ile Gln Arg Leu Ile Asp Ala Gly
 35 40 45
 Ala Ile Val Val Gly Lys Met Gly Thr Val Gln Phe Ala Asn Gly Asp
 50 55 60
 Asn Pro Thr Ala Asp Trp Val Asp Phe His Cys Pro Phe Asn Pro Arg
 65 70 75 80
 Val Tyr Gly Pro Leu Cys Pro Leu Val Ser Ile Leu Pro Leu Arg Ile
 85 90 95
 Tyr Val Asp Ile Asp Ala Leu Cys Arg Val Thr Asp Ile Asn Arg Pro
 100 105 110
 Ala Ala Pro His Arg Gly Pro Arg Pro Gly Leu Arg Arg Thr Ser Gly
 115 120 125
 Leu Ile Ser Leu Leu Glu Val Ile Arg Ala Asp Gln Cys Ala Ile Pro
 130 135 140
 Leu Asp Cys Lys Gly Ser Thr Glu Ile Gly Arg Gln Pro Glu Leu Leu
 145 150 155 160
 Pro Trp Arg Gly Phe Cys Arg Tyr Ala Met Cys Trp Ile Arg Pro Gly
 165 170 175
 Cys Leu Pro Gly Met Pro Glu Arg
 180

<210> 29960

<211> 76

<212> PRT

<213> A.fumigatus

<400> 29960

Arg His Met Asn Met Arg Asn Lys Leu Asn Cys Cys Ser Ala Pro Thr
 1 5 10 15
 Lys Pro Pro Met Gly Phe Lys Asp Gly Arg Ile Ala Thr Met Ala Gly
 20 25 30
 Val Pro Asp Val Val Val Pro Cys Gly Glu Met Ser Tyr Ala Ser Thr
 35 40 45
 Val Ser Leu Arg Thr Glu Tyr Leu Pro Val Thr Met Ile Leu Val Gly
 50 55 60
 Ala Lys Gly Ile His Leu Met Pro Cys His Leu Gly
 65 70 75

<210> 29961

<211> 121

<212> PRT

<213> A.fumigatus

<400> 29961

Thr Tyr Ala Ile Leu Thr Ser Val His Gln Tyr Lys Thr Leu Ala Leu
 1 5 10 15
 Ser Phe Phe Thr Asp Tyr Ala Ala Lys His Asn Gly Ser Gln Pro Tyr
 20 25 30
 Ile Asn Pro Gly Pro Arg Val Arg Trp Ala Trp Gly Gln Glu Asn Gly
 35 40 45

11288

Gly Asp Thr Gly Tyr Glu Met Ala Leu Arg Asn Lys Thr Ile Phe Lys
 50 55 60
 Asp Trp Trp Glu Ser His Gly Tyr Gly Val Pro Asn Glu Asp Thr Cys
 65 70 75 80
 Ser Glu Gly Ile Tyr Ile Tyr Pro Tyr Ser Thr Gly Lys Thr Gln Tyr
 85 90 95
 Arg Asp Val Tyr Thr Arg Tyr Val Leu Tyr Ser Ser Arg His Cys Thr
 100 105 110
 Asp Val Glu Glu Ser Cys Glu Asp Thr
 115 120

<210> 29962

<211> 177

<212> PRT

<213> A.fumigatus

<400> 29962

Arg Ser Met Gln Gly Asp Gly Tyr Gln Ser Pro Gly Gly Ser Ser Ser
 1 5 10 15
 Gly Pro Ala Ser Gly Ile Ala Ser Tyr Glu Trp Leu Asp Ile Ala Val
 20 25 30
 Gly Ser Asp Thr Gly Gly Ser Met Arg Asn Pro Ala Gly Leu Gln Gly
 35 40 45
 Ile Tyr Gly Asn Arg Pro Ser Thr Gly Ala Val Ala Met Glu Gly Val
 50 55 60
 Leu Pro Leu Cys Asp Val Leu Asp Thr Ala Gly Val Phe Ala Arg Asp
 65 70 75 80
 Ala Arg Thr Leu Ser Thr Val Leu His Ala Trp Tyr Gln Asp Ser Asp
 85 90 95
 Lys Ala Tyr Lys Gly Tyr Pro Arg Arg Leu Phe Tyr Pro Asn Ala Ser
 100 105 110
 Phe Pro Asp Ser Thr Thr Glu Ala Gly Ala Leu Leu Glu Glu Val Val
 115 120 125
 Thr Gly Ile Glu Gly Phe Leu Arg Leu Arg Arg Glu Val Val Asp Thr
 130 135 140
 Pro Ser Arg Trp Ala Glu Thr His Pro Ser Gly Thr Pro Ser Asn Ile
 145 150 155 160
 Thr Gln Leu Leu Asn Thr Val Ser Ser Ile Gly Leu Thr Thr Lys Ser
 165 170 175
 Trp

<210> 29963

<211> 82

<212> PRT

<213> A.fumigatus

<400> 29963

Cys Glu Asp Cys Val Cys Leu Ile Gly Ile Val Ser Tyr His Asp Phe
 1 5 10 15
 Val Val Lys Pro Ile Glu Leu Thr Val Phe Asn Ser Cys Val Ile Leu
 20 25 30
 Leu Gly Val Pro Asp Gly Cys Val Ser Ala His Arg Glu Gly Val Ser
 35 40 45
 Thr Thr Ser Leu Leu Asn Leu Lys Asn Pro Ser Ile Pro Val Thr Thr
 50 55 60

11289

Ser Ser Arg Arg Ala Pro Ala Ser Val Val Leu Ser Gly Asn Asp Ala
65 70 75 80
Leu Gly

<210> 29964
<211> 83
<212> PRT
<213> A.fumigatus

<400> 29964
Arg Gly Gln Pro Arg Asn Leu Leu Leu Thr Gly Met Trp Gln Lys Gly
1 5 10 15
Asp Thr Pro Leu Leu Glu Asp Phe Glu Ile Ile Lys Tyr Gln Cys Asn
20 25 30
Met Ala Thr Glu Thr Pro Met Lys Ser His Val Asp Asn Gly His Leu
35 40 45
Ser Pro His Gly Thr Asp Pro Cys Thr Trp Ala His His Gly Ala Thr
50 55 60
Ser Val Glu Pro Gly Leu Asp Ser Leu Leu Glu Ser Arg Asn Arg Lys
65 70 75 80
Asp Asp Ala

<210> 29965
<211> 105
<212> PRT
<213> A.fumigatus

<400> 29965
Ser Leu Ser Leu Cys Trp Thr Leu Phe Ile Tyr Val Pro Val Phe Leu
1 5 10 15
Pro Ser Ala Pro Asp Ala Asp Cys Ala Ile Cys Val Arg Leu Gln Ala
20 25 30
Met Pro Leu Phe Ser Asp Tyr Gly Asp His Pro Asp Ser Ser Ala Arg
35 40 45
Leu Ser Tyr Pro Ser Leu Val Phe Ala Ile Val Thr Pro Leu Val Val
50 55 60
Ile Ala Arg Leu Leu Gly Arg Arg Phe Leu Ser Gly Arg Val Gly Ala
65 70 75 80
Asp Asp Trp Thr Ile Leu Val Ser Cys Val Arg Ile Ser Asn Gly Gly
85 90 95
Trp Leu Ser Thr Tyr Ile Asp Ser Ser
100 105

<210> 29966
<211> 184
<212> PRT
<213> A.fumigatus

<400> 29966
Cys Ser Thr Ala Asn Glu Arg Val Val Cys Gly Trp Ala Phe Gly Lys
1 5 10 15
His Gln Asn Glu Met Pro Lys Glu Leu Val Leu Arg Thr Leu Lys Val
20 25 30
Ser Pro Ser Asn Ala Asp Pro Leu Ala Thr Gly Ser Ser Gln Arg Gln

35 40 45
 Leu Tyr Phe Val Ala Gln Ile Leu Tyr Lys Val Asn Leu Gly Leu Thr
 50 55 60
 Lys Ile Ser Ile Leu Leu Leu Tyr Ile Arg Leu Phe Val His Gln Trp
 65 70 75 80
 Phe Leu Arg Thr Cys Trp Val Trp Ile Ala Ile Ile Val Ser Phe Thr
 85 90 95
 Ile Gly Thr Val Phe Ser Ser Ile Phe Gln Cys Thr Pro Val Gln Trp
 100 105 110
 Ala Phe Asn Lys Ser Leu Pro Asp Arg Gly Thr Cys Ile Asn Met Thr
 115 120 125
 Ala Phe Trp Tyr Ala Asn Ala Ala Phe Asn Ile Leu Thr Asp Leu Val
 130 135 140
 Val Ile Ala Leu Pro Ile Pro Val Val Leu Lys Leu Gln Leu Pro Pro
 145 150 155 160
 Lys Ser Lys Ile Ala Leu Cys Gly Ile Phe Ala Val Gly Leu Leu Trp
 165 170 175
 Val Ala Ser Leu Gly Pro Cys Ile
 180

<210> 29967
 <211> 81
 <212> PRT
 <213> A.fumigatus

<400> 29967
 Leu Val Leu Asp Thr Asp Val Leu Thr Gly Ser Thr Cys Ile Thr Ser
 1 5 10 15
 Val Leu Arg Ile Thr Thr Leu Asn Val Ala Thr Asn His Leu Asp Thr
 20 25 30
 Thr Trp Asn Ser Ile Gly Ser Ser Met Trp Thr Val Ile Glu Ser Asn
 35 40 45
 Leu Gly Ile Ile Cys Ala Cys Leu Pro Ala Leu Arg Arg Pro Leu Ser
 50 55 60
 Phe Phe Phe Pro Arg Leu Phe Ser Arg Leu His Lys Ser Ser Ala Ala
 65 70 75 80
 Pro

<210> 29968
 <211> 165
 <212> PRT
 <213> A.fumigatus

<400> 29968
 Glu Val Ser Phe Phe Ser Ser Pro Val Val Ser Lys Arg Ile Arg Ile
 1 5 10 15
 Ser Ser Ser Ile Leu Gly Gln Ser Cys Leu Ala Ala Met Glu Lys Gln
 20 25 30
 Pro Asn His Glu Val Ser Gln Thr Gly Ser Ser Leu Glu Thr Ala Ala
 35 40 45
 Pro Glu Ile Glu Val Asn Glu Lys Arg Glu Lys Ala Leu Leu Arg Lys
 50 55 60
 Ile Asp Leu His Leu Met Val Pro Leu Trp Val Ile Phe Val Phe Gly
 65 70 75 80
 Phe Leu Asp Arg Ile Asn Leu Gly Asn Val Ala Val Leu Gly Ile Leu


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<210> 29969
<211> 222
<212> PRT
<213> A.fumigatus
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<210> 29970
<211> 340
<212> PRT
<213> A.fumigatus
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<400> 29970
Pro Ile Cys Phe Pro Lys Pro Asp Asp Trp Ser Asn Val Glu Asn Arg
1           5           10           15
Pro Ser Pro Thr Ala Gln Ile Val Gln Pro Lys Arg Met His Ser Leu

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<210> 29971
<211> 70
<212> PRT
<213> A.fumigatus
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Tyr	Leu	Pro	Leu	Ser	Arg	Ser	Gly	Thr	Thr	Ser	Leu	Thr	Ile	Ile	Trp
1				5					10					15	
Ala	Thr	Val	Ile	Arg	Pro	Pro	Pro	Pro	Met	Pro	Val	Lys	Ala	Arg	Lys
			20					25					30		
Met	Met	Ser	Trp	Val	Ala	Val	Trp	Ala	Arg	Glu	Ala	Ala	Ser	Glu	Pro
		35					40					45			
Lys	Lys	Lys	Met	Ala	Arg	Pro	Ala	Lys	Arg	Thr	Tyr	Leu	Arg	Asp	Gln
	50					55				60					

Met Ser Glu Arg Arg Pro
65 70

<210> 29972

<211> 61

<212> PRT

<213> A.fumigatus

<400> 29972

Asp	Lys	Gln	Ile	Phe	Leu	Ala	Cys	Ser	Thr	Val	Asp	Leu	Val	Ala	Leu
1				5					10					15	
Met	Asp	Gln	Thr	Thr	Leu	Ala	Ala	Ser	Leu	Ser	Ile	Val	Gly	Asn	Ala
		20						25					30		
Leu	Asn	Ala	Ser	Asn	Gln	Thr	Ser	Trp	Ile	Ser	Gly	Ala	Tyr	Phe	Val
	35						40				45				
Tyr	Val	Lys	Ile	Leu	Ala	Ser	Ser	Ser	Pro	Ala	Cys	Cys			
	50					55					60				

<210> 29973

<211> 288

<212> PRT

<213> A.fumigatus

<400> 29973

Gln	Ala	Ser	Thr	Ser	Thr	Cys	Phe	Gln	Leu	Leu	Tyr	Gly	Arg	Leu	Ser
1				5				10						15	
Asp	Ile	Trp	Ser	Arg	Lys	Tyr	Val	Leu	Phe	Ala	Gly	Leu	Ala	Ile	Phe
		20					25					30			
Phe	Phe	Gly	Ser	Leu	Ala	Ala	Ser	Leu	Ala	Gln	Thr	Ala	Thr	Gln	Leu
		35					40					45			
Ile	Ile	Phe	Arg	Ala	Phe	Thr	Gly	Ile	Gly	Gly	Gly	Gly	Leu	Met	Thr
	50					55					60				
Val	Ala	Gln	Met	Ile	Val	Ser	Asp	Val	Val	Pro	Leu	Arg	Glu	Arg	Gly
65				70				75						80	
Lys	Tyr	Gln	Gly	Ile	Leu	Gly	Ala	Val	Phe	Ala	Ile	Ala	Asn	Gly	Ile
				85				90						95	
Gly	Pro	Val	Ile	Gly	Gly	Ala	Leu	Ala	Ser	Ala	Ser	Ile	Glu	Lys	Glu
		100						105					110		
Ser	Trp	Arg	Trp	Ile	Phe	Arg	Leu	Asn	Leu	Pro	Leu	Thr	Val	Leu	Thr
		115					120						125		
Thr	Leu	Cys	Val	Phe	Phe	Phe	Met	Pro	Leu	Arg	Lys	Val	Thr	Gly	Ser
		130				135					140				
Trp	Lys	Val	Lys	Leu	Ala	Ala	Val	Asp	Phe	Val	Gly	Ala	Ala	Leu	Ala
145				150				155						160	
Leu	Ser	Gly	Thr	Ala	Val	Leu	Leu	Leu	Gly	Leu	Asn	Trp	Gly	Gly	Gly
				165				170						175	
Glu	Tyr	Ala	Trp	Asp	Ser	Ala	His	Val	Ile	Ala	Thr	Leu	Val	Val	Gly
		180					185						190		
Val	Ala	Val	Cys	Val	Ala	Phe	Val	Leu	Trp	Gln	Trp	Lys	Gly	Ala	Ala
		195					200					205			
Phe	Pro	Leu	Val	Pro	Met	His	Ile	Phe	Arg	Ser	Arg	Ile	Val	Asn	Gly
		210				215					220				
Ala	Cys	Leu	Thr	Met	Phe	Ile	Asn	Gly	Trp	Asn	Phe	Leu	Val	Gln	Val
225					230					235				240	
Tyr	Tyr	Ile	Pro	Thr	Phe	Tyr	Gln	Leu	Val	Phe	Gly	Tyr	Ser	Thr	Val
				245					250					255	

Lys Ala Gly Ala Met Leu Leu Pro Ile Thr Leu Leu Gln Ser Met Ser
 260 265 270
 Ser Pro Pro Leu Ala Asp Arg His Gly Leu Ile Asp Gly Ser Arg Gln
 275 280 285

<210> 29974
 <211> 208
 <212> PRT
 <213> A.fumigatus

<400> 29974
 Asp Gln Pro Leu Leu Arg Leu Pro His Glu Leu Ala Arg Arg Asn Phe
 1 5 10 15
 Lys Ser Val Gln Arg Leu Val Glu Arg Glu Tyr Val Ile Pro
 20 25 30
 Ala Leu Lys Glu Ala Ala Asn Ala Ser Leu Ser Asn Ala Gln Thr Pro
 35 40 45
 Asp Gln Thr Leu Ala Ala Leu Asp Ser Met Leu Ala Arg Met Gln Asn
 50 55 60
 Leu Lys Arg Lys Met Glu Ser Ile Gln Gln Glu Glu Lys Lys Val Gln
 65 70 75 80
 Asn Gln Ser Arg Lys Arg Ile Gln His Leu Glu His Leu His Gln Ile
 85 90 95
 Pro Ser Leu Ala Asp Val Lys Tyr Asp Gln Trp Ser Arg Ile Arg Leu
 100 105 110
 Asp Arg Leu Val Val Asp His Met Leu Arg Ser Gly Tyr Thr Glu Ser
 115 120 125
 Ala Gln Gln Leu Ala Gln Glu Lys Gly Ile Glu Asp Leu Val Asp Leu
 130 135 140
 Asp Val Phe Val Gln Cys Gln Arg Ile Ala Gln Ser Leu Arg Arg Gly
 145 150 155 160
 Glu Thr Lys Asp Ala Leu Gln Trp Cys Asn Glu Asn Lys Ala Ala Leu
 165 170 175
 Lys Lys Ser Gln Val Cys Gly Val His Met Asn Asn Ser Cys Val Ser
 180 185 190
 Asp Pro Val Ser Phe Ser Asn Lys Pro Asp Thr Val Gln Ser Arg Val
 195 200 205

<210> 29975
 <211> 151
 <212> PRT
 <213> A.fumigatus

<400> 29975
 Ile Leu Gln Leu Thr Asp Leu Gln Ser Met Tyr Ser Phe Asp Arg Trp
 1 5 10 15
 Asn Tyr Leu Ser Asp Leu Phe Ile Arg Thr His His Glu Leu Leu Ser
 20 25 30
 Leu Pro Ser Ser Pro Leu Leu His Ile Ala Leu Ser Ala Gly Leu Ser
 35 40 45
 Ala Leu Lys Thr Pro Ser Cys His Ser Ala Tyr Thr Ser Ser Ser Ser
 50 55 60
 Asn Ser Leu Ser Thr Thr Thr Ser Val Cys Pro Ile Cys Ser Thr Glu
 65 70 75 80
 Leu Asn Glu Leu Ala Arg Asn Met Pro Tyr Ala His His Ala Lys Ser
 85 90 95

11295

Tyr Val Glu Ser Asp Pro Ile Val Leu Pro Asn Gly Arg Ile Tyr Gly
 100 105 110
 Gln Gln Arg Leu Leu Asp Met Ser Lys Lys Leu Gly Cys Val Glu Thr
 115 120 125
 Gly Lys Val Lys Asp Pro Thr Thr Gly Glu Ile Phe Asp Lys Ser Glu
 130 135 140
 Met Lys Lys Val Tyr Ile Met
 145 150

<210> 29976
 <211> 760
 <212> PRT
 <213> A.fumigatus

<400> 29976
 Thr Arg Trp Val Lys Ser Leu Ser Phe Ile Gly Ser Ile Asn Gly Lys
 1 5 10 15
 Val Tyr Asp Leu Thr Arg Tyr Ile Ala Gly Gly Arg Leu Thr Lys Ala
 20 25 30
 Leu Pro Gly Glu Thr Val Pro Ser Asp Val Asp Thr Asp Phe Met Asp
 35 40 45
 Asn Ser Val Val Ser Leu Phe Gln Ser Leu Pro Gly Gln Asp Leu Ser
 50 55 60
 Lys His Trp Glu Asn Leu Lys Ile Asp Pro Ala Leu Arg Arg Arg Met
 65 70 75 80
 Gln Leu Cys Leu Asp Asn Leu Phe Phe Val Gly His Val Asp Thr Arg
 85 90 95
 Asn Ser Ala Gln Cys Glu Phe Ala Arg Tyr Phe Ile Leu Val Ile Ser
 100 105 110
 Val Leu Ile Cys Ser Ile Ile Val Phe Lys Phe Leu Ala Ala Leu Gln
 115 120 125
 Phe Gly Arg Lys Asn Val Pro Glu Asn Leu Asp Lys Phe Ile Ile Cys
 130 135 140
 Gln Val Pro Ala Tyr Thr Glu Asp Glu Glu Ser Leu Arg Arg Ala Ile
 145 150 155 160
 Asp Ser Met Ala Arg Met Arg Tyr Asp Asp Lys Arg Lys Leu Leu Val
 165 170 175
 Val Ile Cys Asp Gly Met Ile Ile Gly Gln Gly Asn Asp Arg Pro Thr
 180 185 190
 Pro Arg Ile Val Leu Asp Ile Leu Gly Val Pro Glu Ser Val Asp Pro
 195 200 205
 Glu Pro Leu Ser Phe Glu Ser Leu Gly Glu Gly Gln Lys Gln His Asn
 210 215 220
 Met Gly Lys Val Tyr Ser Gly Leu Tyr Glu Val Gln Gly His Ile Val
 225 230 235 240
 Pro Phe Leu Val Ile Val Lys Val Gly Lys Pro Ser Glu Val Ser Arg
 245 250 255
 Pro Gly Asn Arg Gly Lys Arg Asp Ser Gln Met Val Leu Met Arg Phe
 260 265 270
 Leu Asn Arg Val His Tyr Asn Leu Pro Met Ser Pro Met Glu Leu Glu
 275 280 285
 Met His His Gln Ile Arg Asn Val Ile Gly Val Asn Pro Thr Phe Tyr
 290 295 300
 Glu Phe Ile Leu Gln Val Asp Ala Asp Thr Val Val Ala Pro Asp Ser
 305 310 315 320
 Ala Thr Arg Met Val Ala Ala Phe Leu Asn Asp Thr Arg Leu Ile Gly

<210> 29977
 <211> 142
 <212> PRT
 <213> A.fumigatus

<400> 29977

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Lys Glu Asp Cys Pro Thr Phe Arg Ser Asn Gly Pro Gly Phe Gly Ala
1          5          10          15
Arg Asp Val Leu Arg Leu Val Leu Gly Val Val Leu Glu Glu Lys Cys
          20          25          30
Ser Gln Val Pro Ile Leu Thr Gln Met Lys Gln Ile Leu His Val Lys
          35          40          45
Cys Ile Asn Thr Asn Leu Ser Val Ser Val His Asp Leu Leu Ala Asp
          50          55          60
Glu Gln Trp Leu Gly Arg Phe Cys Arg Ala Asn Ser Ile His Arg Glu
65          70          75          80
Thr Ser Arg Gln Thr Arg Asn Gly Pro Glu Lys Thr Leu Glu Ser Phe
          85          90          95
Arg Glu Val Val Arg Tyr Val Val Leu Ile Asn Leu Asn His Ser His
          100          105          110
Arg Arg Ser Leu Ser Ile Gly Gln Ser Ser Phe Thr Thr Asp Thr Asn
          115          120          125
Lys Thr Ser Ile Ile Gln Glu Arg Ser His His Pro Cys Cys
          130          135          140

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<210> 29978
 <211> 78
 <212> PRT
 <213> A.fumigatus

<400> 29978

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Ile Ser Ser Asp Arg Ile Leu Pro Ile Leu Ala Leu Leu Phe Leu Cys
1          5          10          15
Ser Phe Leu Asp Arg Trp Gly Asn Arg Met Pro Leu Ile Ser Ala Arg
          20          25          30
Leu Lys Ile Asp Pro Asn Val Pro Ser Arg Thr Asn Val Gly Asn Ala
          35          40          45
Lys Ile Leu Gly Leu Gln Asn Asp Leu Asn Ile Thr Gly His Gln Tyr
          50          55          60
Asp Ile Gly Leu Thr Val Phe Tyr Leu Thr Tyr Ile Cys Arg
65          70          75

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<210> 29979
 <211> 97
 <212> PRT
 <213> A.fumigatus

<400> 29979

```

Thr Arg Ala Asp Ser Glu Leu Pro Ser Asn Leu Ile Ile Lys Lys Ala
1          5          10          15
Ser Pro Lys Ile Trp Leu Pro Thr Leu Thr Met Val Trp Gly Ile Ile
          20          25          30
Thr Met Cys Leu Gly Phe Val Arg Asn Phe Ala Gly Phe Val Ala Val
          35          40          45
Arg Ala Ile Leu Gly Val Ala Glu Gly Gly Leu Leu Pro Gly Met Val
          50          55          60

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11298

Cys Glu Ala Tyr Pro Gly Ser Phe Ser Gln Leu Leu Ala Gly Ser Val
 65 70 75 80
 Pro Val Ser Glu Thr Lys Thr Pro Ser Gly Thr Leu Pro Val Phe Leu
 85 90 95
 Leu

<210> 29980
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 29980
 Ser Gln Ile Leu Asn Cys Phe His Ser Gln Cys Ser Leu Tyr Asn Leu
 1 5 10 15
 Pro Gln His Leu Ala Met Asp Thr Met Lys Pro Ser His Glu Thr Leu
 20 25 30
 Glu Asp Val Arg His Lys Ser Leu Asp Asn Met Ser Phe Gly Asn Ala
 35 40 45
 Tyr Gln Gln Lys Leu Thr Arg Ser Ile Leu Phe Lys Leu Asp Thr Arg
 50 55 60
 Leu Val Arg Phe Asp Val Tyr Gly Gln
 65 70

<210> 29981
 <211> 67
 <212> PRT
 <213> A.fumigatus

<400> 29981
 Ser Gln Val Gly Ser Leu Ile Ile Asn Arg Ser Asn Met Tyr Ser Val
 1 5 10 15
 Ala Asp Arg Met Pro Ser Ser Ser Pro Val Ile Val Ala Leu Ile Ser
 20 25 30
 Asp Arg Leu Gln Leu Arg Gly Val Ile Met Leu Phe Ile Leu Pro Ile
 35 40 45
 Ala Ile Ala Gly Tyr Gly Ala Ile Ala Asn Ile Glu Ser Val Arg Val
 50 55 60
 Lys Tyr Gly
 65

<210> 29982
 <211> 209
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (17)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 29982
 Lys Thr Ile Pro Ser Thr Thr Ser Ser Ala Arg Pro His Pro Thr Arg
 1 5 10 15
 Xaa Glu Lys Phe Ser Gln Gln Ala Ser Ile Glu Ala Pro Glu Pro Ser
 20 25 30


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<210> 29983
<211> 102
<212> PRT
<213> A.fumigatus
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[illegible]

<400> 29984

Arg	Leu	Leu	Val	Val	Phe	Thr	Phe	Arg	Cys	Gln	Gly	Val	Tyr	Pro	Val
1				5					10					15	
Gly	Lys	Ser	Thr	Thr	Ala	Thr	Ser	Glu	Ser	Lys	Pro	Arg	Pro	Tyr	Leu
			20					25					30		

11300

Asn Gln Ser Leu Gly Ser Arg Leu Ala Ser Phe Ala Arg Tyr Tyr Ile
 35 40 45
 Arg Phe Leu Val Ser Asp Lys Ser Cys Arg Asp Leu Ile His Arg Ile
 50 55 60
 Ala Val Ser Ser Thr Cys Thr Lys Gly Lys Gly Met Ile Ser Gly His
 65 70 75 80
 Phe His Ala Thr Asn Gly Asn Val Glu Leu Pro Ile Gly Lys His Val
 85 90 95
 Ala Phe Ser Leu Ala Val Pro Tyr Gln Gly Ser Ala Asp Pro Pro Phe
 100 105 110
 Ser Gly Asn Arg Ser Ser Gly His Glu Arg Cys Arg Cys Ser Met Val
 115 120 125
 Thr Gly Lys Cys
 130

<210> 29985

<211> 320

<212> PRT

<213> A.fumigatus

<400> 29985

Leu Ser Asn Trp Ile Asp Ala Leu Ala Ala Lys Arg Glu Asp Tyr Glu
 1 5 10 15
 Gln Ser Ser Asp Arg Gly Ser Ile Lys Phe Leu Leu Asn Gly Gly Thr
 20 25 30
 Asp Ser Phe Thr Gln Gln Phe Leu Leu Pro Pro Arg Ser Asp Arg Thr
 35 40 45
 Arg Ser Leu Glu Tyr His Asn Lys Lys Ser Leu Glu Asp Ala Gly Ser
 50 55 60
 Ser Ile Leu Gly Tyr Glu Leu Lys Asp Ser Arg Thr Asp Tyr Ala Pro
 65 70 75 80
 Thr Phe Ile Glu Ser Asp Ala Ala Thr Leu Ser Phe Phe Gln Asp Thr
 85 90 95
 Phe Ile Asp Phe Phe Asn Gly Pro Phe Gly Asp Pro His Lys Leu Leu
 100 105 110
 Asp Asp Pro Tyr Val Gly Gln Val Ala Tyr His Ala Val Val Pro Pro
 115 120 125
 Gly Gln Asp Pro Asn Leu Thr Leu Thr Gly Gln Gln Leu Ser Tyr Glu
 130 135 140
 Pro Glu Arg Pro Phe Ala Thr Gly Met Ile Gln Ala Ile Leu Ala Arg
 145 150 155 160
 Ala Trp Ser Val Pro Leu Asp Ala Lys Ala Gln Gln Glu Leu Ser Thr
 165 170 175
 Asn Leu Asn Phe Leu Leu Thr Thr Ser Arg Ile Arg Lys Phe Val Ala
 180 185 190
 Met Tyr Phe Lys Tyr Trp Gln Pro Ser Cys Ala Met Leu His Arg Thr
 195 200 205
 Ser Phe Asp Pro Glu Ile Val Ser Leu Pro Leu Leu Thr Ala Val Thr
 210 215 220
 Phe Met Gly Ala Met Tyr Thr Asn Asp Glu Arg Glu Ala Tyr Ile Ala
 225 230 235 240
 Lys Arg Val Leu Asp Phe Ala Glu Leu Phe Ile Phe Ser Ser Glu Val
 245 250 255
 Tyr Ala Ser Glu Thr Glu Ile Ser Ser Met Phe Cys Gly Asn Arg Cys
 260 265 270
 Leu Asp Asp Glu Ser Ser Asp Trp Ile Gln Phe Gln Asn Phe Gln Ala

[illegible]

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<210> 29986
<211> 82
<212> PRT
<213> A.fumigatus
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[illegible]

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<210> 29987
<211> 90
<212> PRT
<213> A.fumigatus
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Phe	Pro	Ile	Cys	Lys	Lys	Asp	Asn	Met	Asn	Ala	Trp	Ser	Val	Leu	Cys
1				5					10					15	
Asn	Pro	Ser	Asn	Val	Glu	Gly	Arg	Leu	Thr	Arg	Asp	Lys	Arg	Lys	Glu
			20					25					30		
Ala	Leu	Thr	Gln	Thr	Met	Ala	Lys	Ala	Lys	Glu	Glu	Gln	Lys	Ser	Arg
			35				40					45			
Arg	Glu	Ala	Glu	Val	Ser	Leu	Arg	Lys	Glu	Lys	Glu	Asp	Phe	Leu	Phe
			50			55					60				
Phe	Tyr	Pro	Leu	Leu	Asn	Gly	Phe	Ile	Met	Ser	Pro	Gly	Ile	Pro	His
65					70					75					80
Lys	Lys	Glu	Glu	Leu	Asp	Val	Ser	Gln	Pro						
				85					90						

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<210> 29988
<211> 89
<212> PRT
<213> A.fumigatus
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<221> UNSURE

<223> Identity of amino acid sequences at the above locations are unknown.

Xaa Gly Gly Xaa Xaa Lys Lys Thr Ala Pro Ile Xaa Tyr Gln Tyr Ile

11302

1 5 10 15
 Ser Leu Leu Ser Ser Phe Tyr Asn Phe Phe Leu Leu Thr Leu Leu Leu
 20 25 30
 Ile His Leu His Pro Phe Ser Ser Leu Pro Pro Phe Asn Ser Pro Tyr
 35 40 45
 Phe Ser Ser Leu Ser Phe Pro Leu Phe Phe Ser His Leu Phe Pro Val
 50 55 60
 Lys Tyr Ile Phe Trp Lys Gln Pro Asn Asn Asn Val Tyr Ser Tyr Phe
 65 70 75 80
 Ala Pro Arg Arg Leu Thr Val Ile Gly
 85

<210> 29989

<211> 270

<212> PRT

<213> A.fumigatus

<400> 29989

Met Cys Leu Leu His Ile Phe Leu Pro Ser Thr Ser Pro Ser Val Arg
 1 5 10 15
 Arg Arg Phe Leu Ile Pro Leu Arg Thr Ser Arg Ser His Leu Leu Ala
 20 25 30
 Gly Leu Arg Thr Ala Pro Lys Ser Ala Thr Leu Pro Ser Ala Ser Gln
 35 40 45
 Arg Gln Gln His Leu Gly Leu Glu Thr Gly Arg Tyr Gly Ala His Thr
 50 55 60
 Ser Gly Thr Ala Asp Arg Val Pro Gln Thr Ala Thr Gly Ala Gly Phe
 65 70 75 80
 Pro Arg Arg Ser Phe Ala Thr Asn Gln His Leu Asp Met Gly Asn Gly
 85 90 95
 Arg Pro Met Tyr Thr Leu Pro Glu Gln Val Leu Ala Pro Pro Ala Ile
 100 105 110
 Asp Ile Ala Gly Asp Met Pro Met Asp Glu Thr Leu Tyr Ala Glu Leu
 115 120 125
 Met Ser Thr Asn Leu Phe Leu Ala Ala Gln Gln Gln Arg Leu Gln Gln
 130 135 140
 Gln Leu Ile Ser Val Thr Ala Ala Ala Gln Gln Phe Gln Gly Leu Asn
 145 150 155 160
 Leu Gly Ala Ser Met Gly Gln Ala Pro Glu Met Pro Ser Leu Ser Val
 165 170 175
 Pro Ala Met Gly Phe Tyr Gln Gln Gln Leu Gln Gln Gly Val Gln Pro
 180 185 190
 Val Val Gln Pro Val Pro Gly Gln Pro Gly Leu Phe Ser Val Tyr Asn
 195 200 205
 Pro Leu Thr Gly Gln His Asn Tyr Val Tyr Asp Asn Ser Tyr Met Gln
 210 215 220
 Glu Asn Gly Ser Ser Pro Tyr Val Glu Asp Glu Asp Gln Ser Pro Val
 225 230 235 240
 Met Gln Thr Pro Ala Phe Tyr Ala Glu Val Ser Pro Pro Ser Glu Ser
 245 250 255
 Val Gln Ser Pro Leu Glu Arg Gln Gln Thr Val Ser Pro Pro
 260 265 270

<210> 29990

<211> 125

<212> PRT

<213> A.fumigatus

<400> 29990

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Ile Thr Arg Cys Ile Ser Leu Ala Pro Thr Thr Trp Phe Pro Ser Pro
1          5          10          15
Arg Arg Pro Gln Cys Thr Glu Arg Pro Pro Val Ser Pro Gly Arg Asp
          20          25          30
Thr Phe Gln Arg Phe Leu Phe Thr Met Val Pro Glu Gly Arg His Val
          35          40          45
Arg Ser Val Tyr Leu Asp Ser His Ala Gly Val Leu Thr Thr Ser Val
          50          55          60
Asp Asp Lys Ile Leu Val Asp Cys Ser Thr Ile Asp Thr Ala Thr Ser
65          70          75          80
Met Asp Val Gly Ala Ala Val Cys Gln Asn Ser Lys Thr Ala Ala Phe
          85          90          95
Tyr Asp Ala Pro Val Ser Gly Gly Ser Leu Gly Ala Val Ala Gly Thr
          100          105          110
Leu Thr Phe Met Val Gly Cys Val Ala Asp Asp Pro Asn
          115          120          125

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<210> 29991

<211> 363

<212> PRT

<213> A.fumigatus

<400> 29991

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Val Pro Cys Gly Val Val Met Arg Thr Pro His Ile Thr Leu Asp Ala
1          5          10          15
Ser Trp Ala Ser Cys Pro Arg Gln Lys Gln Thr Glu Lys Lys Lys Arg
          20          25          30
Gly Lys Thr Ser Ser Gly His Pro Asp Gln Ser Gly Met Ile Ala Gln
          35          40          45
Pro Leu Gln Ser Gln Arg His Ser Ile Arg Val Val Ala Gln Met Gly
          50          55          60
Asp Pro Leu Pro Ala Pro Ile Glu Gly Gln Ala Tyr Val Thr Val Gly
65          70          75          80
Pro Ile Asn Gly Gly Leu Ile Thr Leu Pro Glu Arg Ala Phe Val Ser
          85          90          95
Pro Ser Gly Asp Ala Ala Val Thr Val Pro Ser Leu Ser Phe Leu Ile
          100          105          110
Thr His Pro Gly Ser Gly Ser Glu Lys Ser Pro Arg His Leu Leu Phe
          115          120          125
Asp Leu Gly Leu Arg Ala Thr Leu Gly Asp Tyr Met Lys Glu Gln Gln
          130          135          140
Ala His Leu Glu Leu Arg Arg Pro Cys Leu Leu Gly Pro Gly Val Ala
145          150          155          160
Gln Ser Leu Gln Arg Ser Gly Ile Asp Pro Gly Lys Ile Asp Thr Ile
          165          170          175
Ile Leu Ser His Val His Tyr Asp His His Gly Asp Pro Ala His Phe
          180          185          190
Pro Asn Ala His Phe Phe Val Gly Ala Gly Ser Leu Lys Leu Leu Asp
          195          200          205
Glu Gly Leu Gly Ile Ala Ala Ser His Gln Phe Phe Asp Pro Asp Leu
210          215          220
Phe Arg Asn Val Leu Arg Val Ser Glu Phe Pro Ser Pro Gly Ala Ser
225          230          235          240

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11304

Pro Trp Arg Ala Leu Gly Pro Phe Ala Gly Ala Leu Asp Phe Leu Gly
 245 250 255
 Asp Gly Ser Val Tyr Val Ile Asp Ala Pro Gly His Leu Pro Gly His
 260 265 270
 Ile Asn Leu Leu Cys Arg Val Gly Pro Asp Thr Trp Met Tyr Leu Gly
 275 280 285
 Gly Asp Ser Cys His Asp Ser Arg Leu Leu Thr Gly Glu Arg Gln Ile
 290 295 300
 Ala Thr Trp Asp Asp Gly His Gly Asn Thr Gly Cys Ile His Val Asp
 305 310 315 320
 Gln Thr Arg Ala Glu Glu Ser Leu Ser Arg Ile Arg Arg Leu Gln Glu
 325 330 335
 Met Glu Gly His Lys Val Glu Val Val Met Ala His Asp Val Glu Trp
 340 345 350
 Trp Ser Thr Asn Gln His Arg Ala Leu Gly Leu
 355 360

<210> 29992

<211> 103

<212> PRT

<213> A.fumigatus

<400> 29992

Ser Arg Val Asn Asn Met His Leu Ile Leu Thr Gly Ala Thr Gly Leu
 1 5 10 15
 Val Gly Ser Gly Val Leu Asp Ala Met Leu Ala Met Lys Glu Val Thr
 20 25 30
 Lys Ile Ser Ile Leu Ser Arg Arg Pro Val Gln Met Ala Glu Asp Ala
 35 40 45
 His Asp Pro Arg Val Gln Val Ile Leu His Gln Gly Phe Glu Ala Tyr
 50 55 60
 Asp Pro Lys Val Leu Ser Gln Leu Gln Gly Ala Thr Gly Cys Val Trp
 65 70 75 80
 Ala Leu Gly Ile Ser Gln Thr Lys Val Asn Lys Glu Ser Val Cys Ala
 85 90 95
 Leu Ser Phe Glu Arg Asn Tyr
 100

<210> 29993

<211> 67

<212> PRT

<213> A.fumigatus

<400> 29993

Ser Ala Phe Lys Ser Ser Pro Met Cys Ser Ala Ile Ala Leu Leu Leu
 1 5 10 15
 Thr Ala Gln Glu Tyr Gly Tyr Gly Thr Met Leu Glu Gly Gly Ile Ser
 20 25 30
 Ser Ser Pro Ser Ile Leu Arg Ser Ser Asn Ile Cys Asn Met Asn Ile
 35 40 45
 Tyr Thr His Ala Tyr Pro Arg Leu Lys Pro Ala Gly Trp Ala Asp Gln
 50 55 60
 Arg Ser Glu
 65

<210> 29994

<211> 188
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (156), (157), (158), (161)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 29994

Gly	Gly	Leu	Ile	Thr	Glu	Glu	Ser	Phe	Thr	Ser	Val	Phe	Pro	Glu	Met
1				5					10					15	
Lys	Asp	Ala	Asn	Ile	Gln	Gly	Ile	Val	Ile	Ala	Ser	Phe	Glu	Leu	Gly
		20						25					30		
Ala	Leu	Ala	Gly	Ala	Leu	Ala	Cys	Leu	Asp	Leu	Gly	Asp	Arg	Leu	Gly
		35					40					45			
Arg	Arg	Leu	Thr	Val	Trp	Phe	Gly	Met	Leu	Phe	Met	Leu	Val	Gly	Gly
	50					55					60				
Thr	Leu	Gln	Thr	Ser	Ala	Trp	Ala	Leu	Ser	Gln	Leu	Thr	Val	Gly	Arg
65					70					75					80
Val	Leu	Ser	Gly	Ile	Gly	Leu	Gly	Leu	Gln	Val	Ala	Thr	Ile	Pro	Ser
				85					90					95	
Trp	Gln	Ser	Glu	Cys	Ala	Lys	Ala	His	Ser	Arg	Gly	Arg	Trp	Val	Met
		100						105					110		
Ile	Glu	Gly	Gly	Leu	Gln	Thr	Phe	Gly	Val	Ala	Cys	Gly	Gln	Leu	Val
		115					120					125			
Gly	Tyr	Gly	Phe	Phe	Phe	Val	Lys	Gly	Gln	Ala	Gln	Trp	Arg	Ala	Pro
	130					135					140				
Val	Gly	Ile	Gln	Leu	Ile	Pro	Ala	Leu	Ile	Val	Xaa	Xaa	Xaa	Ile	Asn
145					150					155					160
Xaa	Leu	Pro	Glu	Ser	Leu	Arg	Trp	Leu	Ile	Lys	His	Gly	Leu	Val	Glu
			165					170						175	
Glu	Val	Cys	Ile	Leu	Ser	Met	Met	Glu	Val	Ser	Arg				
			180					185							

<210> 29995
 <211> 264
 <212> PRT
 <213> A.fumigatus

<400> 29995

Trp	Arg	Phe	Leu	Ala	Asp	Arg	Thr	Asn	Leu	Gln	Gly	Ala	Tyr	Asn	Leu
1				5					10					15	
Ser	Lys	Leu	Arg	Asn	Leu	Pro	Phe	Asp	His	Pro	Glu	Leu	Met	Phe	Glu
		20						25					30		
Arg	Asp	Ala	Ile	Ile	Ala	Ser	Phe	Glu	Ala	Gln	Ser	Glu	Leu	Ala	Pro
		35					40					45			
Phe	Ser	Tyr	Arg	Glu	Met	Leu	Arg	Asn	Gly	Lys	Thr	Lys	Met	Phe	His
	50					55					60				
Arg	Val	Ala	Ile	Gly	Phe	Met	Gln	Ser	Ala	Gln	Gln	Leu	Ser	Gly	
65					70					75					80
Ile	Asn	Leu	Val	Ser	Thr	Tyr	Ala	Asn	Lys	Ile	Leu	Gln	Glu	Ser	Phe
			85						90					95	
Gly	Leu	Ala	Ala	Ser	Thr	Ser	His	Leu	Ile	Ala	Ala	Met	Gly	Gly	Leu
		100						105					110		
Glu	Tyr	Ala	Val	Cys	Ser	Leu	Leu	Ser	Val	Phe	Leu	Ile	Glu	Gly	Leu

115 120 125
 Gly Arg Arg Arg Ala Phe Leu Trp Thr Thr Val Gly Met Ser Ser Cys
 130 135 140
 Phe Ala Val Ile Ala Gly Leu Gln Ser Thr Asp Ser Arg Thr Cys Gln
 145 150 155 160
 Leu Thr Ala Ala Gly Phe Leu Phe Leu Phe Asn Thr Phe Phe Gly Leu
 165 170 175
 Ala Trp Val Gly Gly Pro Phe Leu Tyr Ser Ala Glu Ile Ala Pro Leu
 180 185 190
 Arg Cys Arg Ala Gln Ala Asn Ala Phe Ala Ser Ala Gly Asn Trp Leu
 195 200 205
 Phe Cys Phe Val Val Val Met Ile Ile Pro Pro Ala Phe Gln Asn Ile
 210 215 220
 Gly Trp Lys Thr Val Arg Leu Leu Arg Val Pro His Trp Pro Ser Ser
 225 230 235 240
 Asn Val Arg Leu Val Tyr His Phe Cys His Phe Glu Cys Leu Leu Arg
 245 250 255
 Thr His His Leu Leu Phe Pro Cys
 260

<210> 29996
 <211> 82
 <212> PRT
 <213> A.fumigatus

<400> 29996
 Ile Gln Val Gly Gly Asn Gln Ala Gly Arg Ser Val Ala Val Cys Asp
 1 5 10 15
 Met Phe Gln Val Lys Ile Ser Ser Ser Val Ser Ile Met Ala Ile Phe
 20 25 30
 Pro Leu Thr Arg Tyr Thr Ala His Met Gly Ala Ser Gly Leu Thr Leu
 35 40 45
 Asn Phe Leu Val Ala Gly Ile Ala Thr Cys Ala Phe Trp Leu Phe Gly
 50 55 60
 Tyr Asp Met Ser Val Met Val Tyr Leu Leu Pro Asn Gly Thr Cys Thr
 65 70 75 80
 Pro Val

<210> 29997
 <211> 89
 <212> PRT
 <213> A.fumigatus

<400> 29997
 Leu Gly Ser Ala Gln Leu Arg Arg Gly Pro Arg Thr Pro Lys His Val
 1 5 10 15
 Leu Leu Gln Cys Leu Ser Tyr Gln Glu Ala Tyr Arg Lys Met Ala Asn
 20 25 30
 Lys Leu Leu Asn Ile Glu Gly Ser Leu Gln Gly Lys Ile Thr Asp Tyr
 35 40 45
 Asn Met Leu Met Phe Asp Pro Gln Ala Val His Tyr Ile Ala Lys Leu
 50 55 60
 Met His Ser Gly Lys His Gly Gln Lys Arg Gly Asn Leu Leu Gln Gly
 65 70 75 80
 Ser Gly Met Asp Val Glu Asp Ser Ser

<210> 29998
 <211> 634
 <212> PRT
 <213> A.fumigatus

<400> 29998

Val	Ala	Arg	Ala	Leu	Thr	Tyr	Ile	Leu	Ala	Arg	Phe	Val	Asn	Ser	Leu
1				5					10					15	
Gly	Ala	Lys	Val	His	Ser	Ser	Pro	Pro	Thr	Ile	Glu	Lys	Ile	Ser	Gln
			20					25					30		
Arg	Phe	Gln	Asp	Phe	Tyr	Val	Arg	Ala	Glu	Ser	His	Ile	Ala	Thr	His
		35					40					45			
Ile	Ser	Ala	Leu	Ala	Ser	Arg	Ile	Asn	Arg	Asp	Pro	Ser	Pro	Asn	Pro
	50					55					60				
Pro	Pro	Pro	Arg	Ala	Ser	Arg	Phe	Gly	Gln	Ser	Lys	Ser	Thr	Asn	Arg
65					70					75					80
Asp	Ser	Gly	Asn	Val	Pro	Ser	Ser	Arg	Gln	Met	Leu	Thr	Ala	Ser	Glu
				85					90						95
Val	Ala	Glu	Arg	Arg	Lys	Ala	Arg	Lys	Ser	Leu	Ala	Ser	Lys	Gly	Ala
			100					105					110		
Ala	Leu	Glu	Glu	Ala	Ile	Glu	Arg	Arg	Ala	Cys	Glu	Cys	Val	Tyr	Asp
		115					120					125			
Arg	Ile	Trp	Arg	His	Lys	Ser	Thr	Leu	Asp	Glu	Val	Arg	Asp	Glu	Lys
	130					135					140				
Leu	Arg	Ser	Lys	Thr	Ala	Ala	Leu	Leu	Leu	Val	Gly	Ile	Asn	Leu	Lys
145					150					155					160
Asp	Leu	Gly	Ile	Asp	Ile	Asp	Met	Ala	Thr	Ile	Asn	Glu	Glu	Asp	Gln
			165						170					175	
Lys	Glu	Ala	Asp	Gln	Cys	Leu	Ser	Val	Ala	Arg	Lys	Cys	Leu	Ala	Arg
		180						185					190		
Met	Asn	Glu	Ala	Lys	Tyr	Pro	Leu	Gly	Lys	Leu	Gln	His	Leu	Ala	Gly
	195						200					205			
Ala	His	Lys	Ala	Ile	Val	Asp	Ala	Leu	Thr	Lys	Leu	Leu	Pro	Ser	Ser
	210					215					220				
Ser	Ser	Ala	Asp	Glu	Ile	Leu	Pro	Thr	Leu	Ile	Tyr	Thr	Leu	Ile	Thr
225					230					235					240
Cys	Pro	Pro	Glu	Gly	Ile	Asn	Ile	Ile	Ser	Asn	Leu	Leu	Phe	Ile	Gln
			245						250					255	
Arg	Phe	Arg	Ser	Thr	Lys	Lys	Ile	Asp	Gly	Glu	Thr	Ala	Tyr	Cys	Leu
			260					265					270		
Thr	Asn	Leu	Glu	Ala	Ala	Ile	Ser	Phe	Leu	Glu	Asn	Val	Glu	Leu	Ser
	275						280					285			
Glu	Leu	Arg	Ala	Asp	Glu	Thr	Gln	Glu	Gly	Lys	Leu	Gln	Leu	Ser	Asn
	290					295					300				
Glu	Thr	Ile	Gly	Thr	Pro	Asp	Ser	Leu	Asp	Thr	Pro	His	Gln	Met	Ser
305					310					315					320
Lys	Ala	Pro	Val	Ser	Thr	Val	Thr	Lys	Ala	Asn	Ala	Ser	Pro	Glu	Ile
			325						330					335	
Ser	Lys	Ser	Asp	Ala	Lys	Glu	Asp	Ala	Ala	Glu	Gly	Leu	Leu	Lys	Gln
			340					345					350		
Gln	Ser	Pro	Ala	Thr	Pro	Gln	Gln	Pro	Arg	Leu	Asn	Asn	Leu	Phe	Gln
		355					360					365			
Pro	Pro	Ser	Lys	Val	Leu	Gly	Ala	Ala	Asn	Asp	Val	Val	Arg	Asn	Thr
	370					375						380			

Ala Asp Gln Gly Leu Lys Asn Ile Ser Ala Ser Leu Asp Ser Ser Phe
 385 390 395 400
 Asn Phe Leu Phe Gly Arg Leu Lys Glu Leu Gln Ser Ser Gln Leu Ser
 405 410 415
 Ala Lys Asp Gly Gly Ser Pro Ile Leu Pro Lys Thr Leu Ala Glu Ala
 420 425 430
 Arg Arg Leu Val Thr Ser Pro Pro Ser Leu Asp Lys Gly Val Ser Arg
 435 440 445
 Asp Asn Gly Gly Gly Asp Ser Leu Ala Thr Pro Asp Arg Pro Pro Leu
 450 455 460
 Arg Arg Ile Gly Ser Arg Ala Glu Asp Thr Phe Met Gly Leu Val Ser
 465 470 475 480
 Gly His Arg Thr Pro Arg Asp Arg Ser Thr Asp Ser Val Arg Thr Gln
 485 490 495
 Ala Ser Leu Lys Thr Ala Thr Ala Thr Gly Ala Leu Lys Asp Glu
 500 505 510
 Pro Ser Ser Ala Ala Ser Gln Thr Asn Pro Leu Pro Thr Thr Pro Leu
 515 520 525
 Glu Ser Met Arg Asn Phe Gly Asn Ser Ile Asn Pro Leu Asn His Ile
 530 535 540
 Pro Gly Met Ile Arg Asn Phe Gly Arg Ser Thr Pro Asp Ser Gly Gly
 545 550 555 560
 Ser Phe Ala Ala Leu Ala Pro Ser Glu Lys Thr Lys Thr Ser Pro Ser
 565 570 575
 Ser Arg Glu Val Pro Gly Asn Asn Ser Ser Asn Gln Pro Lys Ile Asp
 580 585 590
 Pro Pro Ile Gln Arg Phe Leu Gln Thr Gln His Ala Asn Glu Leu Thr
 595 600 605
 Ile Gly Asp Val Val Val Leu Leu Glu Asp Tyr Lys Arg Leu Ala Ala
 610 615 620
 Ala Leu Leu Arg Gln Ala Ser Asp Ser Ser
 625 630

<210> 29999

<211> 640

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (551)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 29999

Ala Asn Leu Thr Arg Ile Leu Ala Pro Val Val Glu Asn Lys Gly Arg
 1 5 10 15
 Ala Phe Val Trp Gly Leu Val Lys Trp Cys Gly Ile Gly Thr Leu Ala
 20 25 30
 Ser Tyr Thr Asn Ala Met Ile Lys Phe Leu Gln Ser Lys Val Ser Ile
 35 40 45
 Ala Phe Arg Thr Arg Leu Thr Arg Tyr Ile His Asp Leu Tyr Val Ala
 50 55 60
 Asp Asn Asn Tyr Tyr Lys Leu Leu Asn Leu Asp Gly Gly Ile Gly Gln
 65 70 75 80
 Gly Ala Asp Gln Phe Ile Thr Gln Asp Leu Thr Leu Phe Cys Ser Ala
 85 90 95

Ala Ala Ala Leu Tyr Ser Thr Met Gly Lys Pro Leu Val Asp Leu Phe
 100 105 110
 Val Phe Asn Tyr Gln Leu Tyr Cys Ser Leu Gly Pro Leu Ala Leu Ser
 115 120 125
 Gly Ile Leu Thr Gly Tyr Phe Ser Thr Ala Val Ile Leu Arg Lys Leu
 130 135 140
 Ser Pro Pro Phe Gly Lys Leu Lys Ala Val Glu Gly Lys Lys Glu Gly
 145 150 155 160
 Asp Phe Arg Gly Leu His Ser Arg Leu Leu Ala Asn Ala Glu Glu Ile
 165 170 175
 Ser Phe Tyr Gly Gly Ala Asp Ile Glu Arg Val Phe Leu Leu Arg Ser
 180 185 190
 Phe Lys Asp Leu Gln Arg Trp Met Glu Gly Ile Tyr Ser Leu Lys Ile
 195 200 205
 Arg Tyr Asn Met Leu Glu Asp Val Ile Leu Lys Tyr Ala Trp Ser Ala
 210 215 220
 Phe Gly Tyr Leu Ile Thr Ser Leu Pro Val Phe Leu Pro Ala Trp Gly
 225 230 235 240
 Gly Ala Gly Gly Ala Leu Glu Leu Ala Asn Ala Tyr Glu Glu Thr Gly
 245 250 255
 Arg Glu Arg Gly Arg Met Lys Glu Phe Ile Thr Asn Lys Arg Leu Met
 260 265 270
 Leu Ser Leu Ala Asp Ala Gly Gly Arg Met Met Tyr Ser Ile Lys Asp
 275 280 285
 Ile Ser Glu Leu Ala Gly Tyr Thr Ser Arg Val Tyr Thr Leu Ile Ser
 290 295 300
 Thr Leu His Arg Val His Val Asn Ala Tyr Tyr Pro Pro Arg Gly Ser
 305 310 315 320
 His Ala Glu Leu Tyr Ser Leu Ala Asp Ala Gln Gly Thr Ile His Asn
 325 330 335
 Gly Phe Asp Gly Val Arg Leu Glu Gln Val Pro Ile Val Ala Pro Ala
 340 345 350
 Leu His Pro Arg Gly Gly Asp Glu Leu Ile Glu Ser Leu Ser Phe Ile
 355 360 365
 Val His Ser Gly Glu His Leu Leu Ile Ser Gly Pro Asn Gly Val Gly
 370 375 380
 Lys Ser Ala Ile Ala Arg Ile Val Ala Gly Leu Trp Pro Val Tyr Arg
 385 390 395 400
 Gly Leu Val Ser Arg Pro Arg Gly Phe Gly Leu Asp Gly Ile Met Phe
 405 410 415
 Leu Pro Gln Arg Pro Tyr Leu Ser Val Gly Thr Leu Arg Asp Gln Val
 420 425 430
 Ile Tyr Pro His Thr Glu Ile Asp Met Arg Glu Ala Gly Arg Thr Asp
 435 440 445
 Ala Glu Leu Gln Lys Ile Leu Glu Asp Ala Arg Leu Gly Tyr Leu Pro
 450 455 460
 Ala Arg Glu Gly Gly Trp Asn Ala Arg Lys Glu Trp Lys Asp Val Leu
 465 470 475 480
 Ser Gly Gly Glu Lys Gln Arg Met Ala Met Ala Arg Leu Phe Tyr His
 485 490 495
 Glu Pro Arg Tyr Ala Phe Leu Asp Glu Gly Thr Ser Ala Val Ser Ser
 500 505 510
 Asp Val Glu Gly Val Leu Tyr Gln Gln Ala Lys Asp Arg Gly Ile Thr
 515 520 525
 Leu Ile Thr Ile Ser Thr Arg Ala Ser Leu Lys Lys Tyr His Thr Phe
 530 535 540

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Ser Leu Thr Leu Cys Leu Xaa Ala Glu Gly Glu Gln Trp Glu Phe Glu
 545 550 555 560
 Lys Ile Gly Thr Glu Lys Glu Lys Leu Gly Val Glu Lys Glu Ile Gln
 565 570 575
 Glu Leu Arg Lys Arg Leu Asp Lys Val Asp Glu Trp Lys Arg Arg Arg
 580 585 590
 Glu Glu Ile Asp Lys Glu Leu His Lys Val Trp Ala Glu Glu Gly Glu
 595 600 605
 Leu Ala Pro Pro Pro Tyr Glu Leu Gly Asn Glu Glu Ala Val Ala Glu
 610 615 620
 Val Ser Asn Glu Ala Thr Glu Glu Ala Asn Val Asp Lys Thr Gln Glu
 625 630 635 640

<210> 30000

<211> 452

<212> PRT

<213> A.fumigatus

<400> 30000

Arg Ser Phe Glu Ala Glu Phe Val Val Lys Lys Pro Thr Met Tyr Glu
 1 5 10 15
 Tyr Ile His Lys Leu Arg Arg Trp Arg Asp Lys Phe Glu Glu Lys Leu
 20 25 30
 Asp Arg Arg Gly Gln Tyr Gln Phe Leu Glu Thr Tyr Ser Pro His Leu
 35 40 45
 Ser Glu Phe Arg Phe Leu Lys Phe Asp Glu Val Glu Val Pro Gly Gln
 50 55 60
 Tyr Leu Leu His Lys Asp Lys Asn Gln Asp Phe Val Arg Ile Asp Arg
 65 70 75 80
 Phe Leu Pro Asp Ile Asp Leu Val Arg Gly Ile Gly Val Cys His Arg
 85 90 95
 Arg Leu Lys Ile Arg Gly His Asp Gly Ser Val His Pro Phe Ala Val
 100 105 110
 Gln His Pro Ala Ala Arg His Cys Arg Arg Glu Glu Arg Ile Leu Gln
 115 120 125
 Leu Phe Arg Ile Phe Asn Gly Leu Leu Gly Lys Arg Lys Glu Ser Arg
 130 135 140
 Arg Arg Asn Leu Tyr Phe His Leu Pro Leu Met Val Pro Leu Ala Pro
 145 150 155 160
 His Ile Arg Leu Val Arg Asp Asp Pro Ser Tyr Ile Ser Met Gln Gly
 165 170 175
 Ile Phe Glu Asp Tyr Cys Arg Arg Val Gly Thr Ser Lys Asp Glu Pro
 180 185 190
 Val Leu Phe Thr Met Glu Lys Met Arg Ser Leu Ala Glu Thr Lys Gln
 195 200 205
 Asn Val Arg Gln Thr Asp Asn Leu Met Val Glu Arg Ala Asn Val Ser
 210 215 220
 Gln Arg Thr Pro Asp Gln Gln Gln Val Leu Arg Thr Glu Ile Leu Thr
 225 230 235 240
 Ala Ile Gln Glu Lys Trp Val Pro Ser Thr Ile Val Lys Asp Tyr Phe
 245 250 255
 Gln Lys Thr Tyr Pro Asn Phe Ala Asn Phe Trp Leu Phe Arg Arg Gln
 260 265 270
 Phe Ser Tyr Gln Tyr Ala Ala Ile Ala Phe Met Thr Tyr Val Met His
 275 280 285
 Met Gly Asn Arg Tyr Pro Asn Lys Ile Met Ile Ser Arg Ser Thr Gly

290 295 300
 Asp Ile Trp Gly Thr Glu Leu Ile Pro Ala Ile Asn Pro Ala Lys Ala
 305 310 315 320
 Phe Phe Tyr Asn Pro Glu His Val Pro Phe Arg Phe Thr Pro Asn Ile
 325 330 335
 Gln Thr Leu Met Gly Pro Ile Ala Thr Glu Gly Leu Phe Ala Cys Ala
 340 345 350
 Leu Met Ala Ile Ala Arg Cys Leu Thr Glu Pro Arg His Glu Leu Glu
 355 360 365
 Gln Gln Leu Ser Ile Phe Val Arg Asp Glu Met Met Phe Trp Ala Thr
 370 375 380
 Ala Gln His Arg Gly Val Leu Pro Val Gln Gln Leu Arg Asp Leu Val
 385 390 395 400
 Tyr Asn Asn Ser Asp Ile Ile Val Asn Arg Ala Val Ser Leu Ala Ser
 405 410 415
 Pro Pro Glu Gly Asn Leu Pro Ala Asn Gln Thr Thr Ile Asp Leu Ile
 420 425 430
 Ser Lys Ala Val Asn Pro Gln His Leu Ala Ser Cys Asp Ala Leu Trp
 435 440 445
 Met Pro Tyr Leu
 450

<210> 30001
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 30001
 Gly Ala Phe Glu Gly Cys Arg Tyr Arg Ala Phe Arg Phe Met Gly Cys
 1 5 10 15
 Thr Ala Leu Ser Trp Asn Pro Gln Tyr Ser Tyr Leu Val His Ile Lys
 20 25 30
 Tyr Asp Thr Ser Ile Ser Ile Glu Pro Ile Ser Lys His Ser Lys Asp
 35 40 45
 Lys Trp Leu Pro Met Lys Phe Ser Ala Gln Val Gln Asn Gln
 50 55 60

<210> 30002
 <211> 101
 <212> PRT
 <213> A.fumigatus

<400> 30002
 Ser Val His Gly Leu Gln His Leu Pro Ser Phe Cys His His Ser His
 1 5 10 15
 Leu Phe Lys Ser Thr Met Pro Ala Thr Thr Ala Asp Thr Leu Ser Leu
 20 25 30
 Val Thr Arg Thr Val Thr Val Ala Pro Leu Val Leu Ser Val Ala
 35 40 45
 Asp His Tyr Gly Arg Ser Ala Lys Gly Thr Arg Lys Arg Val Val Gly
 50 55 60
 Val Leu Leu Gly Glu Asn Leu Gly Gln Thr Val Arg Val Ser Asn Ser
 65 70 75 80
 Phe Ala Gly Ala Ser Ser Pro Lys Pro Ala Tyr Leu Cys Ser Leu Val
 85 90 95
 Asp Gly Arg Gln Phe

100

<210> 30003
 <211> 98
 <212> PRT
 <213> A.fumigatus

<400> 30003

Cys	Leu	Cys	Leu	Leu	Val	Pro	Phe	Glu	Glu	Asp	Glu	Lys	Asp	Pro	Ser
1			5					10					15		
Val	Trp	Phe	Leu	Asp	His	Asn	Phe	Val	Glu	Ser	Met	Arg	Asp	Met	Phe
		20					25					30			
Lys	Lys	Ile	Asn	Ala	Arg	Glu	Lys	Leu	Val	Gly	Trp	Tyr	His	Ser	Gly
		35					40					45			
Pro	Lys	Leu	Arg	Ala	Ser	Asp	Leu	Glu	Ile	Asn	Glu	Leu	Phe	Lys	Arg
	50					55				60					
Tyr	Thr	Pro	Asn	Pro	Leu	Val	Ile	Val	Asp	Val	Gln	Pro	Lys	Glu	
65				70					75					80	
Val	Gly	Val	Pro	Thr	Asp	Ala	Tyr	Phe	Ala	Val	Asp	Glu	Ile	Lys	Asp
				85					90					95	

Val Gly

<210> 30004
 <211> 198
 <212> PRT
 <213> A.fumigatus

<400> 30004

Asp	Gly	Thr	Thr	Ser	Arg	Thr	Phe	Val	His	Thr	Pro	Ser	Val	Ile	
1			5					10					15		
Glu	Ala	Glu	Glu	Ala	Glu	Glu	Ile	Gly	Val	Glu	His	Leu	Leu	Arg	Asp
		20					25					30			
Ile	Arg	Asp	Val	Ala	Val	Gly	Thr	Leu	Ser	Thr	Arg	Ile	Thr	Ser	Gln
		35					40					45			
Leu	Gln	Ser	Leu	Gln	Gly	Leu	His	Leu	Arg	Leu	Arg	Asp	Ile	Gly	Gln
	50					55				60					
Tyr	Leu	Gln	Lys	Val	Leu	Asp	His	Glu	Leu	Pro	Val	Asn	His	Ala	Ile
65				70					75					80	
Leu	Gly	Asn	Leu	Gln	Asp	Val	Phe	Asn	Leu	Leu	Pro	Asn	Leu	Ser	Thr
				85					90					95	
Pro	Ala	Ala	Thr	Ser	Arg	Leu	Ser	Gly	Ser	Glu	Pro	Gln	Met	Glu	Asn
		100						105					110		
Ser	Glu	Leu	Ala	Arg	Ala	Met	Ser	Ile	Lys	Thr	Asn	Asp	Gln	Leu	Met
	115						120					125			
Ala	Ile	Tyr	Ile	Ser	Ser	Leu	Ile	Arg	Ala	Ile	Thr	Ala	Phe	His	Asp
	130					135					140				
Leu	Ile	Glu	Asn	Lys	Ile	Gln	Asn	Arg	Gln	Gln	Gln	Glu	Glu	Asn	Glu
145				150					155					160	
Ser	Lys	Lys	Glu	Gln	Glu	Ala	Asn	Ala	Ala	Lys	Gly	Asp	Lys	Glu	Gly
			165					170					175		
Ala	Lys	Lys	Ala	Asn	Gly	Met	Asn	Gly	Glu	Pro	Lys	Glu	Asp	Gln	Glu
			180					185						190	

Lys Ser Lys Lys Lys Ser
195

<210> 30005
 <211> 99
 <212> PRT
 <213> A.fumigatus

<400> 30005
 Tyr Ile Gln Ser Val Leu Asp Leu Asn Leu Ile Thr Ile Phe Ala Pro
 1 5 10 15
 Glu Val Ala Pro Met Asp Thr Pro Arg Val Gln Val Gly Ala Pro Asp
 20 25 30
 Val Ala Gln Ala Pro Glu Ser Thr Gln Thr Thr Asp Thr Pro Asp Val
 35 40 45
 Asp Met Asp Glu Thr Gln Gln Ser Pro Leu Asn Glu Ile Gln Ala Asp
 50 55 60
 Ala Thr Gln Gln Asp Ile Ser Leu Pro Asp Ala Gln Pro Thr Gly Ser
 65 70 75 80
 Ala Pro Thr Glu Pro Gln Pro Pro Lys Lys Lys Pro Gly Leu His
 85 90 95
 Phe Leu Glu

<210> 30006
 <211> 264
 <212> PRT
 <213> A.fumigatus

<400> 30006
 Gly Ser Asn Leu Arg Gly Ala Ser Thr Met Arg Pro Gln Leu Ala His
 1 5 10 15
 Ala Arg Leu Thr Pro Leu Ser Tyr Leu Thr Ser Pro Ile Val Glu Leu
 20 25 30
 Ile Val Gly Lys Asp Glu His Lys Thr Ser Leu Thr Ala His Gln Ser
 35 40 45
 Leu Leu Leu Glu Ser Pro Phe Leu Ala Gln Ala Val Ala Ala Phe Ser
 50 55 60
 Glu Ser Gly Pro Val Arg Thr Ser Phe Leu Leu Ser Ser Ile Leu Asp
 65 70 75 80
 Ala Phe Thr Asn Thr Ile Ser Val Met Gln Arg Arg Ile Glu Leu Pro
 85 90 95
 Asp Glu Asn Val Glu Ala Phe Gly Cys Phe Leu Gln Phe Gln Tyr Thr
 100 105 110
 His Asp Tyr Thr Ala Ser His Ala Asp Pro Ser Ala Asp Gln Asp Val
 115 120 125
 Val Gly Glu Leu Asp Asp Ser Gly Glu Leu Leu Leu Lys His Ala Arg
 130 135 140
 Val Tyr Thr Leu Ala Glu Lys Leu Gly Val Pro Ala Leu Lys Ser Leu
 145 150 155 160
 Ala His Ser Lys Ile His Arg Ile Asn Ser Thr Ser His Gly Glu Ile
 165 170 175
 Ala Tyr Ala Arg Tyr Val Tyr Thr His Thr Pro Val Asp Asp Val Thr
 180 185 190
 Ile Arg Lys Pro Val Ala Ser Phe Trp Ala Thr Arg Ser His Val Leu
 195 200 205
 Arg His Glu Ala Glu Glu Glu Phe Lys Lys Leu Cys Leu Glu Val Pro
 210 215 220
 Glu Phe Cys Phe Asp Val Leu Thr Leu Val Leu Asp Gln Lys Glu Lys

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225 230 235 240
 Arg Ala Gln Asp Arg Ala Glu Thr Glu Ser Gly Ile Lys Gly Ser Gly
 245 250 255
 Arg Lys Arg Leu Arg Ser Gly Ile
 260

<210> 30007

<211> 82

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (28)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30007

Arg Gln Phe Trp Arg Ala Pro Arg Thr Arg Tyr Leu Lys Lys Arg Val
 1 5 10 15
 Ser Val Gly Phe Ile Pro His Gly Leu Gly His Xaa Leu Gly Met Asn
 20 25 30
 Thr His Asp Thr Gly Gly Asn Pro Asn Tyr Ala Asp Lys Asp Thr Met
 35 40 45
 Phe Arg Tyr Leu Arg Val Arg Gly Arg Leu Pro Ala Gly Ser Val Ile
 50 55 60
 Thr Val Glu Pro Gly Val Ser Trp Gly Leu Pro Met Phe Pro Lys Leu
 65 70 75 80
 Ile His

<210> 30008

<211> 67

<212> PRT

<213> A.fumigatus

<400> 30008

Val Tyr Phe Cys Arg Phe Ile Ile Glu Pro Tyr Ile Lys Ser Pro Glu
 1 5 10 15
 Ser Asn Lys Tyr Ile Asp Thr Asn Val Leu Asp Arg Tyr Trp Arg Val
 20 25 30
 Gly Gly Val Arg Ile Glu Asp Asn Val Leu Val Thr Lys Asp Gly Tyr
 35 40 45
 Asp Asn Leu Thr Thr Ala Pro Lys Ala Val Asp Glu Leu Glu Arg Leu
 50 55 60
 Ala Ala Ser
 65

<210> 30009

<211> 103

<212> PRT

<213> A.fumigatus

<400> 30009

Ile Ala Leu Phe Ser Ser Phe Ser Ser His Ser Leu Phe Ser Phe Pro
 1 5 10 15
 Leu Phe Ile Ile Leu Pro Pro Leu Arg Ile Pro Val Arg Pro Gly Lys


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                20                25                30
Asn Pro Glu Ser Phe Arg Ala Asp Tyr Ile Arg Leu Leu Asp Pro Tyr
      35                40                45
Leu Ile Thr Pro Gly Ser Arg Thr Ile Phe Thr Ala Leu Val Ser Val
      50                55                60
Arg Ala Ile Ala Asp Asn Phe Pro Pro Ser Arg Ile Phe Trp Ala Gly
65      70                75                80
Ser Cys Lys Arg Arg Ser Pro Ser Ala Pro Leu Ser Arg Leu Pro Arg
      85                90                95
His Glu Leu Leu Pro Arg Gly
      100

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<210> 30010
 <211> 190
 <212> PRT
 <213> A.fumigatus

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<400> 30010
Leu Leu Ser Thr Cys His Pro Gly Val Gly Lys Thr Ser Leu Val Gln
1      5      10      15
Arg Tyr Val Lys Asn Ala Phe Asn Pro Ala Thr Ile Thr Ser Thr Val
      20      25      30
Gly Ala Ser Phe Ile Thr Lys Arg Val Leu Asp Thr Thr Ser Asp Thr
      35      40      45
Ile Val Arg Leu Gln Ile Trp Asp Thr Ala Gly Gln Glu Arg Phe Arg
      50      55      60
Ser Ile Ser Arg Leu Tyr Tyr Arg Gly Ala Asn Ala Cys Leu Leu Cys
65      70      75      80
Tyr Asp Ile Thr Asp Glu Gln Ser Phe Glu Glu Met Thr Gly Trp Leu
      85      90      95
Leu Glu Leu Lys His Leu Ala Asp Asp Pro Ile Val Ile His
      100     105     110
Val Val Gly Thr Lys Ser Asp Ile Val Thr Leu Asp Pro Ser Arg Arg
      115     120     125
Arg Val Pro Phe Glu Arg Thr Ile Ala Tyr Val Ala Glu Gln Leu Tyr
      130     135     140
Pro Ser Arg Ala Ser Thr Pro Pro Pro Thr Ala Gly Met Gly Leu Gly
145     150     155     160
Leu Gly Pro Ser Ser Thr Ala Leu Gln Ser Pro Asp Ser Lys Arg Ser
      165     170     175
Ser Gly Phe Trp Gly Gln Gly Tyr Arg Leu Gly Leu Leu Pro
      180     185     190

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<210> 30011
 <211> 106
 <212> PRT
 <213> A.fumigatus

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<400> 30011
Ser Met Leu Ser Gly Pro Ser Arg Ile Ser Leu Arg Leu Ile Arg Pro
1      5      10      15
Ala Ala Gly Cys Arg Leu Ser Gly Arg Leu His Met Ser Leu Ser Ser
      20      25      30
Cys Thr His Arg Gly Arg Arg Arg Arg Arg Arg Arg Gly Trp Ala
      35      40      45
Trp Gly Ser Val Arg Arg Leu Leu His Tyr Arg Ala Pro Ile Ala Ser

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      50              55              60
Ala Val Ala Gly Ser Gly Asp Arg Asp Ile Gly Trp Asp Cys Cys His
65              70              75              80
Glu Ile Ser Ala Gln Asp Gly Glu Gly Ile Gln Glu Ala Phe Arg Val
      85              90              95
Ile Thr Arg Lys Leu Val Glu Gln Arg Glu
      100              105

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<210> 30012
 <211> 67
 <212> PRT
 <213> A.fumigatus

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<400> 30012
Lys Val Ile Phe Pro Ser Tyr Ile Thr Arg Ser Ser Arg Asn Lys Glu
1              5              10              15
Ile Phe Lys Leu Val Lys Ala Tyr Leu Ile Ser Ser Leu Ser Ile Arg
      20              25              30
Thr Asn Phe Asn Pro Thr Ile Val Trp Glu Arg Asp Ile Leu Ile Pro
      35              40              45
Thr Leu Tyr Ile Asp Phe Ser Phe Glu Asp Asn Ala Trp Arg Lys His
      50              55              60
Leu Thr Ser
65

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<210> 30013
 <211> 73
 <212> PRT
 <213> A.fumigatus

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<400> 30013
Pro Val Leu Gly Arg Leu Ala Leu Ser Val Leu Leu Val Ile Lys Ser
1              5              10              15
Leu Ala Pro Ala Thr Ile Pro Thr Thr Ile Phe Phe Trp Ile Arg Leu
      20              25              30
Ser Met Asn Asp Ile Asn Gln Asn Gly Ser Ser Val Asp Ala Met Glu
      35              40              45
Met Glu Leu Arg His Thr His Thr Thr Met Ile Val Ser Ala Gly Asn
      50              55              60
Leu Ala Leu Ser Gly Thr Tyr Ser Arg
65              70

```

<210> 30014
 <211> 67
 <212> PRT
 <213> A.fumigatus

```

<400> 30014
Leu Arg Cys Asn Leu Phe Cys Thr Val Thr Asn Tyr Phe Lys Cys Leu
1              5              10              15
Met Ala Gly Lys Gly Lys Gly Lys Gly Lys Lys Lys Thr Lys Pro Lys
      20              25              30
Ile Ser Glu Ile Ser Ala Gly Ser Ala Ile Ala Ser Thr Glu Thr Ala
      35              40              45
Val Ala Lys Asp Glu Val Ser Ala Lys Met Lys Glu Leu Val Leu Arg
      50              55              60

```

Tyr Glu Val
65

<210> 30015
<211> 81
<212> PRT
<213> A.fumigatus

<400> 30015
Val Leu Ile Ile Val Ala Pro Ser Pro Ile Phe Pro Leu Met Leu Gly
1 5 10 15
Thr Ser Val Gln Gly Gly Lys Thr Asn Phe Gln His Lys Val Arg Asn
20 25 30
Arg Phe Gln Lys Gly Ala Val Gln Tyr Gly Ile Val Ile Ser Pro Gln
35 40 45
Lys Gln Lys Val Ile Arg Cys His Leu Asp Asp Lys Val Pro Glu Pro
50 55 60
Ser Val Val Val Phe Arg Arg Ala Ile Tyr Leu Lys His Ser Gly Ser
65 70 75 80
Ile

<210> 30016
<211> 111
<212> PRT
<213> A.fumigatus

<400> 30016
Gly Leu Gly Phe Asn Leu Trp Asn Ile Tyr His Ser Leu Pro Val Ala
1 5 10 15
Cys Thr Thr Pro Gln Thr Ala Phe Ile Met Glu Gln Gln Leu Leu Thr
20 25 30
Leu Leu Ala Asp Thr Gln Ser Pro Ala Val Asp Thr Thr Lys Ala Ala
35 40 45
Glu Leu Gln Arg Leu His Leu Tyr Ser Asn Glu Gln Phe Pro Leu Ser
50 55 60
Leu Ala Ala Ile Ala Ser His Asp Ser Val Pro Thr Asn Leu Arg Gln
65 70 75 80
Ser Ser Leu Ser Val Leu Arg Thr Phe Ile Thr Ala Ala Trp Ser Pro
85 90 95
Asn Leu Asp Glu Phe Asn Gly Gln Val Leu Ile Asn Asp Thr Asn
100 105 110

<210> 30017
<211> 63
<212> PRT
<213> A.fumigatus

<400> 30017
Pro Thr Tyr Ser Val Pro Lys Ile Ile His Gly Leu Leu Pro Arg Asp
1 5 10 15
Tyr Ser Leu Ser Asp Phe Glu Thr Thr Trp Pro Phe Gly Ala Leu Ser
20 25 30
Ala Phe Arg Leu Ile Asn Ser Val Thr Ile Lys Leu Gly Ala Ala Leu
35 40 45
His Thr Thr Leu Val Lys Ser Phe Arg Tyr Glu Gln Glu Ser Gln

50

55

60

<210> 30018
 <211> 166
 <212> PRT
 <213> A.fumigatus

<400> 30018
 Leu Glu Tyr Asp Gln Glu Trp Leu Ala Ile Thr Arg Val Leu Ala Asp
 1 5 10 15
 Glu Leu Gln Leu Gly Asp Leu Ala Val Gln Met Gln Pro Asp Arg Gly
 20 25 30
 Gln Ala Phe Tyr Lys Pro Leu Ile Glu Glu Ala Glu Gln Trp Val Glu
 35 40 45
 Glu Asn Val Val Lys Ala Gly Lys Met Met Val Pro Glu Asn Phe Thr
 50 55 60
 Pro Thr Ala Pro Phe Phe Asp Pro Ala Val Pro Ile Thr Thr Asp Glu
 65 70 75 80
 Leu Pro Pro Glu Phe Thr Asn Pro Gln Thr Ala Gln Phe Cys Glu Leu
 85 90 95
 Ile Gly Ile Glu Asn Lys Phe His Leu Ser Asp Glu Glu Arg Gln Ala
 100 105 110
 Arg Val Glu Ala Gly Pro Arg Pro Asn Lys Pro Lys Pro Glu Gly Gly
 115 120 125
 Trp Asn Arg Gly Arg Arg Arg Asn Tyr Asn Asn Asn Asn Arg Gly Gly
 130 135 140
 Gly Ser Gln Trp Trp Gly Arg Gly Ala Gly Arg Asp Arg Gly Arg Ser
 145 150 155 160
 Gly Gly Asn Gln Arg Trp
 165

<210> 30019
 <211> 211
 <212> PRT
 <213> A.fumigatus

<400> 30019
 Ala Val Ala Met Arg Leu Val Thr Cys Leu Glu His Leu Leu Gly Arg
 1 5 10 15
 Gly Arg Thr Gly Thr Asn Asp Leu Leu Ile Leu Ser Thr Leu Glu Leu
 20 25 30
 Ile Gln Gly Val Leu Leu Leu His Pro Pro Ser Arg Thr Leu Phe Ala
 35 40 45
 Arg Glu Ile Tyr Met Asn Leu Leu Leu Asp Leu Leu Asp Pro Ile Asn
 50 55 60
 Cys Pro Ala Ile Gln Ser Ala Thr Leu Leu Thr Leu Val Thr Ala Leu
 65 70 75 80
 Leu Asp His Pro Ala Asn Thr Arg Thr Phe Glu Glu Leu Asp Gly Leu
 85 90 95
 Leu Thr Val Thr Ser Leu Phe Lys Gln Arg Ala Thr Ser Arg Glu Val
 100 105 110
 Lys Leu Lys Leu Val Glu Phe Leu Tyr Phe Tyr Leu Met Pro Glu Thr
 115 120 125
 Pro Thr Tyr Pro Val Gly Ala Ser Ala Pro Asn Thr Ala Val Cys Gly
 130 135 140
 Leu Gln Arg Ser Pro Ser Lys Leu Gly Gly Gly Pro Tyr Ser Arg Ser

11319

145 150 155 160
 Leu Asn Val Ala Gly Pro Gly His Gly Gly Lys Gly His Gly Asp Thr
 165 170 175
 Arg Thr Thr Glu Glu Lys Gln Ala Leu Leu Gly Arg Tyr Leu Asn Asn
 180 185 190
 Val Glu Asp Leu Val Glu Asp Leu Lys Glu Thr Ala Pro Phe Gly Ala
 195 200 205
 Thr Val Tyr
 210

<210> 30020

<211> 77

<212> PRT

<213> A.fumigatus

<400> 30020

Gly Arg Gly Trp Arg Leu Pro Arg Arg Tyr Asn Leu Gly Gln Tyr Phe
 1 5 10 15
 Gly Tyr His Ile Ser Leu Phe Thr Thr Leu Thr Gly Cys Ser Ala Val
 20 25 30
 His Ile Asn Ser Met Thr Ile His Asp Glu Pro Val Leu Pro His Gly
 35 40 45
 Gly Val Lys Asn Ser Gly Trp Gly Arg Phe Asn Ala Ala Gln Gly Leu
 50 55 60
 Glu Glu Phe Leu Val Thr Lys Ser Val Thr Trp Met Asp
 65 70 75

<210> 30021

<211> 156

<212> PRT

<213> A.fumigatus

<400> 30021

Ser Gly Gln Ile Cys Met Ser Thr Asp Arg Ile Leu Ile His Ser Ser
 1 5 10 15
 Ile Ala Pro Ala Phe Met Asp Ala Leu Lys Lys Ala Leu Gly Ser Asn
 20 25 30
 Leu Asp Pro Ser Ala Pro Pro Pro Thr Leu Val Asn Val Ala Ser Lys
 35 40 45
 Ala Arg Val Glu Gly Met Ile Asp Arg Ala Leu Glu Ser Gly Ala His
 50 55 60
 Leu Ile His Gly Ser Leu Asp Lys Thr Val Gly Lys Ser Gly Val Arg
 65 70 75 80
 Met Ala Pro Val Leu Leu Gly Gly Val Arg Glu Asp Met Glu Val Trp
 85 90 95
 Gln Glu Glu Ala Phe Ala Ser Leu Ala Ala Cys Met Val Val Asn Ser
 100 105 110
 Asp Glu Glu Ala Ile Arg Ile Ala Asn Ser Ser Gly Tyr Gly Leu Ser
 115 120 125
 Ala Ala Val Phe Thr Glu Asp Leu Arg Lys Gly Leu Ala Ile Ala Lys
 130 135 140
 Lys Ile Gln Ser Gly Ser Val Phe Trp Val Ser Tyr
 145 150 155

<210> 30022

<211> 391

<212> PRT

<213> A.fumigatus

<400> 30022

Asn Asn Glu Val Ile Glu Ser Ala Thr Leu Arg Ser Leu Ser Val Ala
 1 5 10 15
 Ser Asn Leu Lys Lys Val Asp Leu Val Leu Val Pro Glu Val Asp Phe
 20 25 30
 Val Asp Gln Arg Ile Tyr Arg Phe Glu Pro Thr Asp Gly Ala Ser Asp
 35 40 45
 Ala Ile Ala Arg Leu Asp Thr Leu Ser Phe Ser Leu Asn Thr Thr Met
 50 55 60
 Ser Val Gln Arg Phe Asn Gln Trp Arg Gln Lys Thr Asp Ile Arg Arg
 65 70 75 80
 Leu Arg Thr Trp Ser Ile Gly Arg Ile Asn Asn Thr Thr Leu Ala Arg
 85 90 95
 Thr Ile Gly Ala Val Ala Pro Ser Phe Gln Arg Leu Glu Arg Leu Glu
 100 105 110
 Leu Asn Leu Arg Glu Thr Pro Arg Arg Ser Val Gly Tyr Trp Arg Ser
 115 120 125
 Val Glu Glu Met Met Leu Ser Leu Pro Pro Leu Lys Gly Leu Trp Leu
 130 135 140
 Leu Gly Asn Arg Asn Ala Ser Phe Ile Ser Lys Val Leu Ser Arg His
 145 150 155 160
 Gly Ala Thr Leu Leu Ser Leu Gly Leu Asp Thr Arg Asn Ile Gln His
 165 170 175
 Asp Val Leu Thr Gln Arg Gln Thr Arg Pro Tyr Tyr Asn Ala Gln Ala
 180 185 190
 Ile Ala Arg Phe Ala Ser Lys Cys Pro Val Leu Arg Glu Leu His Leu
 195 200 205
 Thr Val His Arg Val Gln Gly Leu Ala Pro Glu Val Lys Val Tyr Lys
 210 215 220
 Ala Leu Gly Arg Phe Ser Ser Leu Leu His Leu Cys Val Lys Leu His
 225 230 235 240
 Tyr Phe Pro Ser Ala Gly Asp Pro His Asp Asn Val Asp Pro Ser Thr
 245 250 255
 Ile Pro Asp Tyr Leu Ser Arg Tyr Asp Phe Ala Met Val Arg Lys Ala
 260 265 270
 Arg Ala Leu Tyr Ile Asn Ala Val Met Asp Asp His Leu Ala Glu Ser
 275 280 285
 Ile Phe Asn Thr Ile Leu Ser Ser Gln Ser Thr Arg Arg Leu Ala Ser
 290 295 300
 Leu Arg Leu Phe Pro Ala Ser Glu Leu Gln Pro Gln Ala Pro Pro Leu
 305 310 315 320
 Phe Val Arg Asn Ala Tyr Gln Thr His Leu Phe His Gly Phe Thr Val
 325 330 335
 Thr Arg Ser Ser Asn Pro Arg Pro Gly Val Leu Asp Ile Lys Arg Thr
 340 345 350
 Arg Thr Ala Ile Ala Cys Pro Val Ala Glu Leu Ala Pro Phe Ser Val
 355 360 365
 Leu Gly Arg Asp Tyr Ile Leu Glu Trp Ile Trp Pro Asn Asp Ile Thr
 370 375 380
 Ser Phe Pro Ser Gln Asp Ala
 385 390

<210> 30023

11321

<211> 109
<212> PRT
<213> A.fumigatus

<400> 30023
Leu Leu Thr Tyr Arg Phe Thr Thr Ile Asp Pro Gln Arg Ala Ile Gly
1 5 10 15
Tyr Leu Gln Ile Glu Cys Ala Cys Lys Arg Phe Lys Val Ser Asp Lys
20 25 30
Cys Lys Pro Asn Tyr Gly Ser Cys Val Asp Gly Arg Arg Ser Val Pro
35 40 45
Ile Glu Leu Leu Asp Val Ala Gly Leu Val Pro Gly Ala His Gln Gly
50 55 60
Arg Gly Leu Gly Asn Lys Phe Leu Asp Asp Leu Arg His Ala Asp Ala
65 70 75 80
Leu Ile His Val Val Asp Val Ser Gly Thr Thr Asp Ala Glu Gly Gln
85 90 95
Gln Ser Tyr Ser Ala Phe Thr Ser Cys Leu Asn Ile Ser
100 105

<210> 30024
<211> 123
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (78)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30024
Ile Ala Pro Leu Gly Lys Ala Thr Arg Gly Tyr Asp Pro Ser Val Asp
1 5 10 15
Ile Glu Trp Leu Arg Ser Glu Ile Val Arg Trp Val Leu Gly Asn Leu
20 25 30
Met Gln Lys Trp Tyr Asp Met Ile Lys Gly Asp Pro Gly Thr Ser Leu
35 40 45
Cys Leu Ser His Glu Ala Tyr Gly His Thr Gln Gly Phe Tyr Gln Lys
50 55 60
Lys Thr Cys Cys Glu Gln Ser Val Lys Ala Gly Phe Pro Xaa Ile Asp
65 70 75 80
Arg Ser Cys Leu Thr Gly Gly Cys Arg Ile His Arg Ser Lys Asn Ile
85 90 95
Thr Lys Ala Asn Phe Pro Arg Ile Trp Glu Ala Pro Pro Ala Lys Arg
100 105 110
Leu Ala Pro Leu Phe Trp Glu Lys Arg Val
115 120

<210> 30025
<211> 133
<212> PRT
<213> A.fumigatus

<400> 30025
Ser Lys Ile Pro Leu His Asp Lys Pro Phe Pro Ser Ile Ile Thr Glu
1 5 10 15

Lys Leu Gly Asp Asn Ala Lys Gly Ala Leu His Glu Leu Ser Lys Leu
 20 25 30
 Leu Ala Asp Glu Ala Gly Tyr Pro Ile Thr Tyr Asn His Tyr Tyr Thr
 35 40 45
 Asp Asn Val Gln Arg Ala Arg Asn Asn Arg Trp Arg Gln Asp Leu Arg
 50 55 60
 Thr Ser Leu Asn Asn Ala Ile Thr Gln Asp Trp Asn Ser Arg Phe His
 65 70 75 80
 Val Asn Asn Ser Pro Asp Glu Ile Ser Arg Leu Val Thr Ser Leu Gln
 85 90 95
 Asn His His Ile Ile Val Asp Met Glu Glu Arg Ala Cys Tyr Glu Ala
 100 105 110
 Glu Met Asp Leu Asp Ala Tyr Tyr Lys Val Cys Phe Pro Trp Asp Thr
 115 120 125
 Gly Asn Arg Val Tyr
 130

<210> 30026

<211> 70

<212> PRT

<213> A.fumigatus

<400> 30026

Gly Phe Phe Ser Gln Pro Trp Phe Ser Leu Ser Val Thr Gln Met Arg
 1 5 10 15
 Glu Gln Cys Leu Met His Trp Ala Phe Cys Leu Ser Asp Leu Ile Lys
 20 25 30
 Lys Gln Cys Asp Phe Val Ile Glu Leu Pro Glu Thr Ala Val Leu Ser
 35 40 45
 Leu Phe Arg Gly Pro Asp Ala Pro Tyr Glu Thr Ile Ser Tyr Val Arg
 50 55 60
 Ser Gln Glu Lys Lys Ser
 65 70

<210> 30027

<211> 229

<212> PRT

<213> A.fumigatus

<400> 30027

Asp Ala Ser Cys Ala Gly Ala Arg Arg Ser Gly Leu Gly Ser Ile Ser
 1 5 10 15
 Ala Val Asp Pro Val Arg Ala Leu Glu Arg Gly Trp Thr Tyr Asp Asp
 20 25 30
 Ala Phe Arg Ala Val Val Asp Gly Val Val Glu Arg Ile Val Leu His
 35 40 45
 Ile Leu Val Arg Val Glu Asp Val Asp Ser Gly Asp Gly Gly Asp Val
 50 55 60
 Ala His Val Glu Ser Gly Leu Thr Gly Gly His Asp Gly Arg Val Lys
 65 70 75 80
 Glu Val Arg Leu Val Gly Asp Asp Gly Ala Glu Val Ala His Leu Asp
 85 90 95
 Gly Leu Glu Gly Val His Gly Val Gly Val Cys Leu Gly Asp Val Val
 100 105 110
 Arg Gly His Asn Ala Val Val His Asp Asp Gln Arg Thr Thr Val Ala
 115 120 125

11323

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Arg Ser Gly Val Arg Gly Asp Gly His Gly Leu Glu Glu Val Glu Arg
 130                      135                      140
Ala Val Gly Gly Asp Gly Gly Cys Gly Pro His Gly Ala Asp Asp Asp
145                      150                      155                      160
Asp Gly Leu Ala Ala Val Asp Cys Ser Val Glu Glu Glu Gly Arg Leu
                      165                      170                      175
Leu Glu Arg Val Gly Ala Val Arg Asp Asp Gly Ala Ala His Gly Gly
                      180                      185                      190
Val Val Ala Asp Asp Leu Val Asp Gly Pro Gly His Val Glu Gln Lys
                      195                      200                      205
Gly Arg Arg His Val Gly Ala Ala Asp Ile Gly Asp Leu Asp Ala Gly
                      210                      215                      220
His Val Ser Asn Val
225

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<210> 30028
 <211> 136
 <212> PRT
 <213> A.fumigatus

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<400> 30028
Tyr Ala Asp Thr Met Arg Ser Phe Met Thr Thr Ser Ala Pro Arg Leu
 1                      5                      10                      15
Arg Ala Val Gly Cys Ala Ala Thr Val Thr Ala Trp Arg Arg Leu Asn
                      20                      25                      30
Gly Pro Ser Ala Glu Met Ala Val Ala Gly Arg Met Ala Pro Thr Thr
                      35                      40                      45
Thr Met Gly Leu Pro Gln Leu Thr Val Ala Ser Arg Lys Lys Ala Val
                      50                      55                      60
Ser Ser Ser Val Ser Val Pro Cys Val Met Thr Ala Pro Leu Met Val
65                      70                      75                      80
Gly Ser Ser Gln Thr Thr Ser Leu Met Val Leu Ala Met Trp Ser Arg
                      85                      90                      95
Arg Glu Asp Val Thr Ser Gly Leu Pro Thr Leu Ala Thr Trp Met Pro
                      100                      105                      110
Ala Thr Leu Ala Thr Ser Ser Ile Ser Gly Thr Ala Ser Met Ser Cys
                      115                      120                      125
Trp Met Pro Ile Ala Pro Ala Val
130                      135

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<210> 30029
 <211> 154
 <212> PRT
 <213> A.fumigatus

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<400> 30029
Arg Gly Arg His Pro Gly Arg Gln Cys Arg Gln Pro Arg Arg Asp Val
 1                      5                      10                      15
Phe Pro Ser Ala Pro His Gly Gln Asp His Gln Arg Gly Arg Leu Arg
                      20                      25                      30
Arg Pro His His Glu Arg Arg Arg His His Ala Arg His Arg His Ala
                      35                      40                      45
Arg Gly Asp Gly Leu Leu Pro Arg Arg Tyr Ser Gln Leu Arg Gln Ala
50                      55                      60
His Arg Arg Arg Arg Arg His Ala Ala Arg Asn Arg His Leu Arg Arg
65                      70                      75                      80

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11324

Arg Pro Val Gln Pro Pro Pro Gly Arg Asp Arg Arg Arg Ala Pro His
85 90 95
Cys Ala Gln Pro Trp Cys Ala Gly Arg His Glu Arg Pro His Cys Val
100 105 110
Arg Val Leu Arg Leu Gln Asp Lys Arg Gln His His Gly His Leu Gln
115 120 125
Gly Arg Arg Asp Gly Gln Pro Arg Arg His His Leu Gln Gln Ala Val
130 135 140
Leu Leu Leu Pro Ala Arg His Ala His Arg
145 150

<210> 30030

<211> 324

<212> PRT

<213> A.fumigatus

<400> 30030

Tyr Arg Cys Leu Ala Cys Thr Ala Ile Ser Leu Pro Arg Lys Gln Ser
1 5 10 15
Ser Ser Pro Arg Glu Ile Ala Lys Met Thr Lys Leu Ser Phe Lys Ile
20 25 30
Ile Thr Leu Ala Ala Met Ile Ala Val Gly Asn Ala Ser Pro Phe Val
35 40 45
Tyr Pro Arg Ala Thr Ser Pro Asn Ser Thr Tyr Val Phe Thr Asn Ser
50 55 60
His Gly Leu Asn Phe Thr Gln Met Asn Thr Thr Leu Pro Asn Val Thr
65 70 75 80
Ile Leu Ala Thr Gly Gly Thr Ile Ala Gly Ser Ser Asn Asp Asn Thr
85 90 95
Ala Thr Thr Gly Tyr Thr Ala Gly Ala Ile Gly Ile Gln Gln Leu Met
100 105 110
Asp Ala Val Pro Glu Met Leu Asp Val Ala Asn Val Ala Gly Ile Gln
115 120 125
Val Ala Asn Val Gly Ser Pro Asp Val Thr Ser Ser Leu Leu Leu His
130 135 140
Met Ala Arg Thr Ile Asn Glu Val Val Cys Asp Asp Pro Thr Met Ser
145 150 155 160
Gly Ala Val Ile Thr His Gly Thr Asp Thr Leu Glu Glu Thr Ala Phe
165 170 175
Phe Leu Asp Ala Thr Val Asn Cys Gly Lys Pro Ile Val Val Val Gly
180 185 190
Ala Met Arg Pro Ala Thr Ala Ile Ser Ala Asp Gly Pro Phe Asn Leu
195 200 205
Leu Gln Ala Val Thr Val Ala Ala His Pro Thr Ala Arg Asn Arg Gly
210 215 220
Ala Leu Val Val Met Asn Asp Arg Ile Val Ser Ala Tyr Tyr Val Ser
225 230 235 240
Lys Thr Asn Ala Asn Thr Met Asp Thr Phe Lys Ala Val Glu Met Gly
245 250 255
Asn Leu Gly Ala Ile Ile Ser Asn Lys Pro Tyr Phe Phe Tyr Pro Pro
260 265 270
Val Met Pro Thr Gly Lys Thr Thr Phe Asp Val Arg Asn Val Ala Ser
275 280 285
Ile Pro Arg Val Asp Ile Leu Tyr Ser Tyr Gln Asp Met Gln Asn Asp
290 295 300
Thr Leu Tyr Asp Ala Val Asp Asn Gly Ala Lys Gly Ile Val Val Ser

305
Pro Ala Pro Phe

310

315

320

<210> 30031
<211> 87
<212> PRT
<213> A.fumigatus

<400> 30031
Ser Arg Ser Pro Gly Ser Gly Ala Gly Ser Val Ser Ser Gly Tyr Tyr
1 5 10 15
Asp Ala Ile Asp Asp Ile Ala Ser Thr His Ser Leu Pro Val Val Leu
20 25 30
Ser Thr Arg Thr Gly Asn Gly Glu Val Ala Ile Thr Asp Ser Glu Thr
35 40 45
Thr Ile Glu Ser Gly Phe Leu Asn Pro Gln Lys Ala Arg Ile Leu Leu
50 55 60
Gly Leu Leu Leu Ala Glu Asp Lys Gly Phe Lys Glu Ile Lys Glu Ala
65 70 75 80
Phe Ala Lys Asn Gly Val Ala
85

<210> 30032
<211> 203
<212> PRT
<213> A.fumigatus

<400> 30032
Tyr Gln Thr Glu Cys Arg Ser Ser Ser Ser His Phe Asp His His Ala
1 5 10 15
Asp Glu Leu Ala Asp Ser Val Pro Pro Arg Pro Val Thr Pro Pro Leu
20 25 30
Cys Glu Ser Ala Glu Cys Val His Ala Ala Ser Glu Ile Leu Tyr Ser
35 40 45
Leu Asp Pro Asn Tyr Ala Glu Ile Asp Pro Cys Glu Asp Phe Glu Gln
50 55 60
Tyr Val Cys Gly Gly Trp Arg Glu Arg His Asp Leu Arg Leu Asp Gln
65 70 75 80
Gly Ser Met Phe Thr Gly Thr Leu Met Ala Glu Ala Ala Gln Met Arg
85 90 95
Leu Arg His Ile Leu Lys Ser Thr Ser Val Pro Glu Ala Ala Asp Glu
100 105 110
Glu Asn Leu Arg Lys Leu Lys Ser Ala Tyr Asn Ala Cys Leu Asp Glu
115 120 125
Ala Val Ile Ser Lys Arg Gly Ser Glu Pro Leu Asp Ala Leu Leu Ala
130 135 140
Gln Leu Asp Asp Ile Tyr Ser Ala Glu Ser Thr Ala Val Gly Ser Asp
145 150 155 160
Val Asn Ile Thr Asp Ala Val Leu Phe Leu Met Asn Ser Gly Val Thr
165 170 175
Ala Leu Val Glu Met Gly Pro Gly Val Ser Thr Ser Ala Val Gly Ile
180 185 190
Arg Gln Leu Leu Val Leu Thr Gly Glu Ala Arg
195 200

<210> 30033
 <211> 70
 <212> PRT
 <213> A.fumigatus

<400> 30033

```
Met Ala Asn Gly Val Leu Pro Thr Phe Arg Asn Thr Arg Arg Leu Arg
1          5          10          15
Leu Thr Phe Gly Ser Ser Ile Thr Glu Ser Glu Ile Thr Ile Ser Leu
          20          25          30
Val Leu Ser Phe Val Ala Asn Glu Thr Lys Tyr Thr Ala Asn Asp Val
          35          40          45
Ser Asn His His Leu Ser Trp Leu Ser Ser His Gln Ser Pro Pro His
          50          55          60
Ala Leu His Pro Phe Asn
65          70
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<210> 30034
 <211> 219
 <212> PRT
 <213> A.fumigatus

<400> 30034

```
His Cys Leu Ile Asp Pro Ser Asp Pro Leu Ser Leu Arg His Glu Gly
1          5          10          15
Ser Glu Arg Ser Ser Ser Arg Pro Pro Phe Thr Ser Leu Ala Thr Thr
          20          25          30
Pro Ile Ser Met Phe Asn Leu Leu Ser His Pro Glu Pro Glu Thr Ser
          35          40          45
Leu Pro Gly Thr Pro Ala Ser Ala Ser Pro Ser Gly Arg Leu Leu Gly
          50          55          60
His Ala Pro Thr Arg Asp Ile Arg Ala Glu Val Leu Asp Gly Ile Gly
65          70          75          80
Glu Ile Ile Asp Glu Leu Gly Gln Val Asp Asp Gln Ile Ala Ala Tyr
          85          90          95
Ala Leu Asp His Ile His Ser Asn Glu Ile Ile Leu Thr His Thr Ser
          100          105          110
Ser Thr Thr Val Gln Lys Phe Leu Leu Lys Ala Ala Ala Lys Arg Lys
          115          120          125
Phe Thr Val Ile His Ala Glu Ser Tyr Pro Asn Asn His Glu Ala Thr
          130          135          140
His Thr Thr Val Ser Gly Ala Ala Ser Thr Asp Glu Glu Ile Leu Ser
          145          150          155          160
Thr Asp Ser Phe Gln Lys Pro Leu Ile Ala Leu Gly Ile Thr Val Ile
          165          170          175
Leu Ile Pro Asp Ser Ala Val Phe Ala Leu Met Ser Arg Val Asn Lys
          180          185          190
Val Ile Leu Gly Thr His Ser Val Leu Ala Asn Gly Gly Leu Val Phe
          195          200          205
Thr Gly Gly Ala Arg Ala Leu Val Ser Asn Thr
          210          215
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<210> 30035
 <211> 122
 <212> PRT
 <213> A.fumigatus

<400> 30035

Tyr Arg Ala Phe Leu Glu Ser His Thr Phe Cys Thr Arg Ser Tyr Arg
 1 5 10 15
 Ser Asn Arg Asn Ile Arg Leu Leu Lys Arg Arg Gln Ile Arg His Ser
 20 25 30
 Arg Ser Cys Ala Thr Ala Thr Ala Tyr Leu Leu Leu Arg Val Val Ser
 35 40 45
 Ala Cys Arg Thr Thr Asp Ala Ala Lys Leu Ile Glu Arg Val Gln Ser
 50 55 60
 Val Gly Arg Arg Leu Val Ala Ala Gln Pro Arg Glu Met Val Val Gly
 65 70 75 80
 Asn Ile Val Arg Arg Val Leu Gly Leu Ile Arg Asp Glu Ala Glu Asp
 85 90 95
 Glu Arg Asp Gly Asp Phe Thr Leu Ser Asp Ala Gly Ser Glu Gly Gln
 100 105 110
 Pro Gln Thr Pro Arg Val Ser Glu Gly Arg
 115 120

<210> 30036

<211> 527

<212> PRT

<213> A.fumigatus

<400> 30036

Leu Glu Thr Ala Val Asn Thr Asp Ile Pro Cys Ala Leu His Val Phe
 1 5 10 15
 Ile Met Glu Asp Ile Ser Asp Ala Pro His Leu Thr Glu Phe Ala Asn
 20 25 30
 Phe Thr Pro Asn Gly Pro Leu Phe Gly Ser Ser Pro Ser Ala Asp Gly
 35 40 45
 Pro Ala Pro Ile Asn Gly Thr Lys Thr Ala Ser Asp Glu Asp Ser Pro
 50 55 60
 His Arg Glu Glu Glu Arg Arg Leu Ser Asp Asp Ala His Met Pro Val
 65 70 75 80
 Gln Asp Cys Gly Tyr Asn Ser Ser Glu Ser Ser Thr Gln His Ser Thr
 85 90 95
 Ser Asp Thr Ser Ser His Asp Met Asp Asp Asp Asp Leu Ala Pro Ser
 100 105 110
 Asp Ser Arg Ala Ser Ser Arg Ser Ser Ile Ser Ser Ile Pro Asp Ser
 115 120 125
 Val Leu Ile His Pro Pro Ser Glu Leu Lys Ser Ala Ile Gly Cys Gly
 130 135 140
 Thr Asp Glu Arg Ile Arg His Ser Trp Ile Asn Gln Asn Ser Pro Gly
 145 150 155 160
 His Gly Arg Met Glu Ala Gln Phe Lys Ser Ile Gln Thr Ile Arg Gln
 165 170 175
 Arg Glu Ala Ala Phe Arg Lys Pro Ser Ser Val Arg Ala Met Gln Met
 180 185 190
 His Thr Glu Asp Glu Asp Asp Asp Glu Phe Leu Thr Pro Pro Lys Arg
 195 200 205
 Arg Gly Gly His Arg Met Ser Asp Ile Ser Ile Arg Ser Ala Gly Ser
 210 215 220
 Ser Pro Leu Lys Arg Ser Pro Tyr Tyr Ser Pro Thr Gly Ser Thr Gly
 225 230 235 240
 Arg Gln Lys Val Lys Asn Glu Tyr Pro Leu Val Leu Leu His Cys Thr

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                245                250                255
Leu Leu Pro Pro Ser Leu Pro Val Pro Gly Leu Ile Gly Tyr Pro Asp
                260                265                270
Gln Lys Ile Leu Lys Val Val Leu Pro Pro Glu Tyr Trp Arg Arg Trp
                275                280                285
Lys Leu Leu Glu Glu Lys Val Gly Ser Ser Val Val Arg Asp Arg Gly
                290                295                300
Val Leu Ile Ser His Pro Glu Asp Met Tyr Asp Leu Leu Glu Glu Arg
305                310                315                320
Leu Leu Glu Ser Leu Glu Leu Gln Arg Pro Arg Leu His His Gly His
                325                330                335
Phe Leu Gly His Glu Asp Thr Glu Ser Asp Lys Gly Asp Gln Ser Ala
                340                345                350
Thr Glu Asp Ser Ala Thr Asp Asp Glu Gln Gly Glu Glu Cys Pro Asp
                355                360                365
Cys Gly Gly Arg Phe Pro Arg His Asp Ser Ser Arg Lys Trp Glu Ile
370                375                380
Lys Val Phe Ala Ala Asn Gly Leu Met Arg Ala Gly Ala Trp Ala Ala
385                390                395                400
Ala Trp Lys Glu Met Glu Lys Val Asp Val Glu Val Gly Leu Trp Leu
                405                410                415
Pro Ser Glu Ile Arg Arg Glu Leu Glu Lys Arg Leu Leu Asp Asn Asp
                420                425                430
Arg Pro Ser Thr Asp Pro Lys Leu Gln Val Pro Gln Leu Arg Glu Pro
                435                440                445
Ala Thr Ser Ile Thr Pro Glu Leu Tyr Asp Gln Pro Leu Arg Thr Asn
                450                455                460
Thr Pro Thr Pro Leu Ile His Glu Thr Ser Val Cys Val Pro Asp Glu
465                470                475                480
Ala Ala Arg Pro Ser Ser Pro Ala Pro Ala Ile Thr Thr Pro Ala Lys
                485                490                495
Ala Thr Gly Met Pro Pro Pro Asn Val Ser Ser Glu Val Arg Gly Lys
                500                505                510
Asn Arg Thr Ala Tyr Ala Ala His Gln Leu Leu Pro Gly Leu Gly
                515                520                525

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<210> 30037

<211> 154

<212> PRT

<213> A.fumigatus

<400> 30037

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Arg Arg Pro Val Arg Pro Ile Lys Pro Trp Val Ser Thr Leu His Ser
1                5                10                15
Leu Ser Thr Arg Leu Ser Thr Ile Pro Ser Gly Met Ser Pro Met Glu
20                25                30
Ser Cys Arg Thr Pro Thr Lys Glu Pro Asn Ser Pro Ser Gln Ala Arg
35                40                45
Thr Asn Arg Pro Arg Cys Ser Gln Thr Phe Thr Ser Ser Val Leu
50                55                60
Ser Ser Pro Thr Ser Lys Trp Pro Arg Ala Pro Val Ser Ser Ala Val
65                70                75                80
Ser Cys Cys Ser Leu Thr Thr Trp Met Arg Leu Thr Gly Asn Gly Trp
                85                90                95
Val Thr Thr Pro Ala Arg Ser Ser Pro Thr Ile Ser Ala Arg Val Thr
100                105                110

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11329

Met Arg Pro Ser Thr Ala Ala Ala Thr Thr Met Ser Pro Met Pro Thr
 115 120 125
 Arg Asn Ser Thr Thr Thr Pro Arg Thr Gly Pro Lys Arg Ser Trp Ser
 130 135 140
 Gly Gly Leu Thr Ala Ser Ser Pro Gly Pro
 145 150

<210> 30038
 <211> 100
 <212> PRT
 <213> A.fumigatus

<400> 30038
 Gln Val Asn Arg Gly Asn Ser Thr Ile Ala Asn Ala Ile Gln Asn Pro
 1 5 10 15
 Pro Lys Ser Leu Ser Glu Lys Trp Ala Glu Leu Pro Thr Gly Ala Lys
 20 25 30
 Ala Gly Val Tyr Ile Gly Ala Gly Cys Val Gly Ala Ala Leu Leu Ala
 35 40 45
 Gly Phe Ile Phe Phe Phe Ile Ala Gln Arg Lys Lys Gly Arg Leu Glu
 50 55 60
 His Ala Leu Glu Asp Ala Lys Trp Ala Asn Glu Arg Thr Glu Met Ser
 65 70 75 80
 Thr Phe Gln Asn Asp Trp Lys Gln Ser Glu Trp Lys His Lys Gly Tyr
 85 90 95
 Gln Pro Val Asn
 100

<210> 30039
 <211> 86
 <212> PRT
 <213> A.fumigatus
 <220>
 <221> UNSURE
 <222> (83)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30039
 Ala Leu Ser Arg Thr Ile Gly Ser Arg Ala Ser Gly Asn Thr Arg Asp
 1 5 10 15
 Thr Ser Arg Ser Ile Ser Pro Ala Leu Gln Asn Asp Leu Val Leu Gly
 20 25 30
 Ser Leu Ser Lys Gly Cys Pro Met Ser Leu Leu Pro Leu Asn Ala Leu
 35 40 45
 Phe Ala Ala Gly Val Ser Glu Thr Tyr Val Leu Ser Arg Ala Ala Leu
 50 55 60
 Leu Val Lys Leu Arg Gly Gly Ile Val Glu Leu Gly Val Gly Arg Arg
 65 70 75 80
 Leu Val Xaa Asn Val Phe
 85

<210> 30040
 <211> 79
 <212> PRT
 <213> A.fumigatus

<400> 30040

Thr Thr Gly Thr Asn Pro Met Asn Ile Met Asp Arg Val Val Glu Gln
 1 5 10 15
 Ser Ser Asp Ser His Trp Tyr Asn Asp Tyr Asn Asn His Leu Phe Ser
 20 25 30
 Ser Asp Pro Lys Gly Leu Cys Ile Thr Ser His Pro Thr Ser Thr Pro
 35 40 45
 Ser Thr Ala Ala Glu Cys Leu Thr Asn Val Ile Ser Pro Asn Pro Val
 50 55 60
 Cys Leu Val Ser Arg Tyr Pro Ser Gly Thr Ser Ala Arg Asp Thr
 65 70 75

<210> 30041

<211> 280

<212> PRT

<213> A.fumigatus

<400> 30041

Ser Val Val Leu Pro Ala Ala Trp Leu Arg His Pro Ile Met Ser Leu
 1 5 10 15
 Leu Tyr Leu Val Ala Leu Phe Val Ala Ser Ile Cys Ser Val Thr Ala
 20 25 30
 Gln Thr Trp Thr Ser Cys Asn Pro Leu Thr Thr Thr Cys Pro Pro Asp
 35 40 45
 Gln Ala Leu Gly Ile Asn Thr Thr Phe Thr Phe Asn Lys Thr Leu Asp
 50 55 60
 Asp Thr Ile Trp Asn Val Thr Asn Gly Val Leu Ser His Thr Asp Glu
 65 70 75 80
 Gly Thr Glu Phe Thr Ile Thr Gly Glu Asn Gln Ser Pro Thr Met Gln
 85 90 95
 Ser Asn Phe Tyr Ile Phe Phe Gly Ile Val Glu Ser His Val Lys Met
 100 105 110
 Ala Lys Gly Ala Gly Ile Ile Ser Ser Ile Val Leu Gln Ser Asp Asp
 115 120 125
 Leu Asp Glu Ile Asp Trp Glu Trp Val Gly Tyr Asn Thr Ser Glu Val
 130 135 140
 Gln Ser Asn Tyr Phe Gly Lys Gly Asn Asn Glu Thr Phe Asn Arg Gly
 145 150 155 160
 Gly Tyr His Tyr Val Pro Asn Ala Asp Thr Glu Phe His Asn Tyr Thr
 165 170 175
 Thr Tyr Trp Thr Gln Glu Lys Leu Glu Trp Trp Ile Asp Gly Lys Leu
 180 185 190
 Ala Arg Thr Leu Thr Tyr Glu Asp Ser Gln Gly Ala Gly Lys Tyr Tyr
 195 200 205
 Pro Gln Thr Pro Cys Asn Ile Arg Tyr Gly Ile Trp Pro Ala Gly Ile
 210 215 220
 Lys Gly Asn Ala Gln Gly Thr Ile Glu Trp Ala Gly Gly Leu Val Asp
 225 230 235 240
 Tyr Ser Lys Ala Pro Phe Thr Met Val Leu Gln Ser Val Arg Val His
 245 250 255
 Asp Phe His Thr Gly Lys Glu Tyr Asn Tyr Thr Asp His Ser Gly Ser
 260 265 270
 Trp Gln Ser Ile Asp Val Ile Ala
 275 280

<210> 30042
 <211> 146
 <212> PRT
 <213> A.fumigatus

<400> 30042
 Pro Ala Asp Thr Pro Pro Pro Pro Pro Pro Pro Leu Gly Asn Thr Pro
 1 5 10 15
 Pro His Asp Pro Ala Pro Gly Thr Ala Leu Arg Ala Pro Pro Gln
 20 25 30
 Arg Arg Ile Ala Pro Pro Arg Thr Arg Ser Ser Arg Asn Thr Ser Ala
 35 40 45
 Pro Ala Ser Arg Ser Arg Asp Val Pro Ala Met Asp Pro Leu Asp Arg
 50 55 60
 Thr Pro Arg Gly Ser Arg Arg Arg Ser Pro Cys Pro Ala Pro Pro Pro
 65 70 75 80
 Ala Pro Pro Ala Phe Pro Gly Arg Ile Pro Leu Leu Arg Glu Leu Pro
 85 90 95
 Ala Gly Asn Pro Val Arg Arg Arg Ala Arg Arg Arg Ser Ala Ala Thr
 100 105 110
 Ala Leu Pro Pro Leu Leu Leu Arg Pro Asp Arg Ser Gly Trp Cys Val
 115 120 125
 Ser Arg Gly Arg Ile Pro Gly Arg Trp Gly Val Gly Arg Glu Gly Trp
 130 135 140
 Glu Thr
 145

<210> 30043
 <211> 360
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (6), (10), (11), (12), (13), (14), (19), (20), (21), (22)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30043
 Asn Gly Leu Leu Ala Xaa Gln His Tyr Xaa Xaa Xaa Xaa Xaa Val Pro
 1 5 10 15
 Arg Ala Xaa Xaa Xaa Xaa Phe Ala Ile Ala Pro Trp Arg Ser Gly Asp
 20 25 30
 Leu Glu Thr Ala Ala Phe Asp Ala Gly Cys Val Ile Ser Ala Leu Arg
 35 40 45
 Ser Tyr Ala Gln Trp Asp Ala Thr Pro Gln Ala Arg Ala Val Ala Asp
 50 55 60
 Leu Pro Ile Leu Leu Arg Arg Ile Gly Asp Ala Pro Pro Gly Leu Pro
 65 70 75 80
 Pro Ser Met Arg Ser Ala Pro Thr Asp Lys Cys Leu Arg Gly Leu Arg
 85 90 95
 Val Leu Glu Leu Ser Arg Val Ile Ala Thr Pro Leu Ser Gly Lys Thr
 100 105 110
 Leu Ala Ala His Gly Ala Tyr Val Leu Trp Val Thr Ser Pro Asn Leu
 115 120 125
 Pro Asp Leu Pro Pro Ile Asp Arg Glu Phe Gly Arg Gly Lys Arg Thr
 130 135 140

Ile Gln Ile Asp Leu Asp Ala Ala Glu Gly Glu Ala Glu Leu Trp Arg
 145 150 155 160
 Leu Ile Asp Asp Ala His Val Phe Val Gln Gly Phe Arg Pro Gly Ala
 165 170 175
 Leu Ala Ala Arg Gly Phe Ser Pro Glu Thr Leu Ala Ala Arg Ala Ala
 180 185 190
 Ala Gln Gly Arg Gly Ile Val Cys Ala Asn Leu Ser Ala Tyr Gly Pro
 195 200 205
 Thr Gly Pro Trp Arg Ala Arg Arg Gly Phe Asp Ser Leu Val Gln Thr
 210 215 220
 Cys Ser Gly Met Asn Val Ser Glu Ala Glu Gln Tyr Gly Ala Gly Glu
 225 230 235 240
 Ala Gly Arg Ala Ala Pro Cys Gln Val Leu Asp His Ala Ala Gly Tyr
 245 250 255
 Phe Leu Ala Ala Gly Val Glu Ala Ala Val Tyr Arg Gln Ala Thr Glu
 260 265 270
 Gly Gly Ser Trp Val Val Asp Val Ser Leu Ala Gly Val Met Lys Tyr
 275 280 285
 Leu Arg Ser Leu Gly Gln Tyr Glu Gly Arg Thr Gly Phe Asp Glu Gly
 290 295 300
 Arg Asp Tyr Val Ser Leu Ala Asp Val Pro Glu Gly Tyr Leu Glu Thr
 305 310 315 320
 Arg Gln Thr Gly Phe Gly Glu Met Thr Phe Val Arg His Ser Ala Ala
 325 330 335
 Val Glu Gly Val Glu Val Gly Trp Asp Val Met His Lys Pro Leu Gly
 340 345 350
 Ser Asp Glu Lys Arg Trp Leu Leu
 355 360

<210> 30044

<211> 160

<212> PRT

<213> A.fumigatus

<400> 30044

Asp Pro Arg Arg Pro Arg Arg Ile Arg Pro Leu Gly His Val Ser Gln
 1 5 10 15
 Pro Ser Arg Pro Thr Pro His Arg Pro Gly Ile Arg Pro Arg Glu Thr
 20 25 30
 His His Pro Asp Arg Ser Gly Arg Ser Arg Arg Gly Gly Arg Ala Val
 35 40 45
 Ala Ala Asp Arg Arg Arg Ala Arg Leu Arg Thr Gly Phe Pro Ala Gly
 50 55 60
 Ser Ser Arg Ser Lys Gly Ile Leu Pro Gly Asn Ala Gly Gly Ala Gly
 65 70 75 80
 Gly Gly Ala Gly Gln Gly Asp Arg Leu Arg Glu Pro Leu Gly Val Arg
 85 90 95
 Ser Asn Gly Ser Met Ala Gly Thr Ser Arg Leu Arg Leu Ala Gly Ala
 100 105 110
 Asp Val Phe Arg Asp Glu Arg Val Arg Gly Gly Ala Ile Arg Arg Trp
 115 120 125
 Gly Gly Gly Ala Arg Ser Ala Val Pro Gly Ala Gly Ser Cys Gly Gly
 130 135 140
 Val Phe Pro Ser Gly Gly Gly Gly Gly Gly Gly Val Ser Ala Gly Tyr
 145 150 155 160

<210> 30045
 <211> 247
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (203)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30045
 Tyr Arg Gln Pro Leu Gly Glu Asp Gln Glu Ile Arg Val Asn Trp Ala
 1 5 10 15
 Tyr Gln Ser Asn Ser Ala Asn Lys Glu Asp Thr Ser Ser His Phe His
 20 25 30
 Ile Phe Val Gly Asp Leu Ser Asn Glu Val Asn Asp Glu Ile Leu Leu
 35 40 45
 Gln Ala Phe Ser Ala Phe Gly Ser Val Ser Glu Ala Arg Val Met Trp
 50 55 60
 Asp Met Lys Thr Gly Arg Ser Arg Gly Tyr Gly Phe Val Ala Phe Arg
 65 70 75 80
 Glu Arg Ala Asp Ala Glu Lys Ala Leu Asn Ala Met Asp Gly Glu Trp
 85 90 95
 Leu Gly Ser Arg Ala Ile Arg Cys Asn Trp Ala Asn Gln Lys Gly Gln
 100 105 110
 Pro Ser Ile Ser Gln Gln Gln Ala Met Ala Ala Met Gly Met Thr Pro
 115 120 125
 Thr Thr Pro Phe Gly His His His Phe Pro Thr His Gly Val Gln Ser
 130 135 140
 Tyr Asp Met Val Val Gln Gln Thr Pro Gln Trp Gln Thr Thr Cys Tyr
 145 150 155 160
 Val Gly Asn Leu Thr Pro Tyr Thr Thr Gln Asn Asp Leu Val Pro Leu
 165 170 175
 Phe His Asn Phe Gly Tyr Val Leu Glu Thr Arg Leu Gln Ala Asp Arg
 180 185 190
 Gly Phe Ala Phe Ile Lys Met Asp Thr His Xaa Asn Ala Ala Met Ala
 195 200 205
 Ile Cys Gln Leu Asn Gly Tyr Asn Val Asn Gly Arg Pro Pro Glu Met
 210 215 220
 Gln Arg Thr Phe Ala Leu Ala Phe Phe Ala Leu Ile Leu Arg Leu Leu
 225 230 235 240
 Leu Leu Thr Val Val Val Gly
 245

<210> 30046
 <211> 125
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (11)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30046
 Ala Leu Arg Ala Gln Gly Ile Asp Arg Lys Xaa Tyr Leu His Trp Ile

11334

1		5		10		15									
Ser	Pro	Leu	Gln	Pro	Tyr	Met	Ala	Ile	Val	Ala	Val	Ile	Leu	Gly	Phe
		20						25					30		
Ser	Thr	Ala	Leu	Phe	Asn	Gly	Tyr	Ala	Val	Phe	Lys	Pro	Phe	Asp	Ala
		35					40					45			
Gln	Gly	Phe	Val	Thr	Ser	Tyr	Phe	Gly	Leu	Ala	Phe	Phe	Val	Val	Met
		50				55					60				
Phe	Ala	Phe	Trp	Lys	Val	Val	Lys	Arg	Thr	Lys	Trp	Val	Asp	Pro	Ala
65					70					75					80
Thr	Ala	Asp	Ile	Tyr	Thr	Gly	Lys	Ala	Glu	Ile	Asp	Glu	Glu	Cys	Arg
			85						90					95	
Ile	Trp	Glu	Asp	Gly	Thr	Trp	Asp	Glu	Ile	His	Lys	Ala	Glu	Leu	Ala
		100					105						110		
Gln	Met	Asn	Ile	Ile	Arg	Arg	Met	Trp	Glu	Arg	Met	Trp			
		115					120					125			

<210> 30047

<211> 254

<212> PRT

<213> A.fumigatus

<400> 30047

Ser	Val	Gln	Tyr	Pro	His	Tyr	Leu	Pro	Val	Trp	Asp	His	Ser	Glu	Lys
1				5					10					15	
Tyr	Pro	Pro	Leu	Glu	Pro	Phe	Thr	His	Ser	Asp	Pro	Gly	Leu	Arg	Ala
			20					25					30		
Asp	Pro	Ser	Phe	Pro	Asp	Leu	Leu	Lys	Pro	Gly	Thr	Lys	Ile	Gln	Asn
		35				40						45			
Leu	Thr	Pro	Thr	Ile	Gly	Ser	Glu	Val	Thr	Gly	Val	Gln	Leu	Ser	Ser
		50				55					60				
Leu	Ser	Ala	Ala	Gly	Lys	Asp	Gln	Leu	Ala	Leu	Val	Ala	Gln	Arg	
65					70					75					80
Arg	Val	Val	Val	Phe	Arg	Asp	Gln	Asp	Phe	Ala	Asp	Leu	Pro	Ile	Ala
				85					90					95	
Asp	Ala	Leu	Glu	Phe	Gly	Ser	His	Phe	Gly	Arg	His	His	Ile	His	Pro
		100						105					110		
Thr	Ser	Gly	Gln	Pro	Glu	Gly	Tyr	Pro	Glu	Ile	His	Leu	Val	His	Arg
		115					120						125		
His	Asn	Ser	Gln	Gly	Glu	Leu	Asp	Ala	Phe	Phe	Ala	Asp	Arg	Asn	Ser
		130					135					140			
Thr	Val	Ala	Trp	His	Ser	Asp	Val	Thr	Tyr	Glu	Ala	Gln	Pro	Pro	Gly
145					150					155					160
Thr	Thr	Phe	Leu	Tyr	Ile	Leu	Asp	Ser	Pro	Glu	Val	Gly	Gly	Asp	Thr
			165						170					175	
Val	Phe	Val	Asp	Gln	Val	Glu	Ala	Tyr	Arg	Arg	Leu	Ser	Pro	Ala	Ile
		180						185					190		
Lys	Glu	Arg	Leu	His	Gly	Leu	Lys	Ala	Val	His	Ser	Gly	Phe	Glu	Gln
		195					200					205			
Ala	Glu	Phe	Ser	Arg	Gln	Arg	Gly	Gly	Val	Val	Arg	Arg	Asp	Pro	Val
		210					215					220			
Lys	His	Glu	His	Pro	Ile	Val	Arg	Thr	His	Pro	Val	Thr	Gly	Glu	Lys
225					230					235					240
Ala	Leu	Phe	Val	Asn	Gly	Gly	Cys	Lys	Cys	Pro	Ser	Pro	Thr		
				245					250						

<210> 30048

<211> 111

<212> PRT

<213> A.fumigatus

<400> 30048

Gly	Asn	Glu	Pro	Ser	Asp	Glu	Cys	Ala	Val	Thr	Arg	Ser	Ile	Val	Gly
1				5					10					15	
Leu	Lys	Lys	Glu	Glu	Ser	Asp	Ala	Leu	Leu	Gly	Phe	Leu	Leu	Asn	His
			20					25						30	
Val	Gly	Arg	Gly	Ile	Asp	Tyr	Gln	Ala	Arg	Ile	Lys	Trp	Ala	Pro	Lys
			35				40						45		
Thr	Val	Val	Val	Trp	Asp	Val	Ser	His	Pro	Thr	Leu	Ser	Ser	Pro	Leu
			50			55				60					
Asp	Asp	Gln	Thr	Leu	Met	Arg	Glu	Glu	Pro	Arg	His	Gly	Thr	Phe	Cys
65					70					75					80
Ala	Gly	Arg	Leu	Asp	Gly	Gly	Thr	Ser	Ser	Phe	Gly	Ala	Asp	Tyr	
				85				90						95	
Pro	Gln	Ala	Glu	Arg	Pro	Tyr	Glu	Thr	Pro	Tyr	Val	Pro	Glu	Glu	
			100					105						110	

<210> 30049

<211> 149

<212> PRT

<213> A.fumigatus

<400> 30049

Arg	Leu	Pro	Ser	Ala	Pro	Arg	Ser	Arg	Val	Cys	Ser	Ser	Arg	Pro	Cys
1				5					10					15	
Gln	Leu	Pro	Glu	Arg	Thr	Ser	Trp	His	Phe	Leu	Trp	Arg	Asn	Ala	Glu
			20					25						30	
Trp	Trp	Ser	Phe	Ala	Thr	Arg	Ile	Ser	Pro	Thr	Cys	Leu	Leu	Arg	Thr
			35				40					45			
Arg	Ser	Ser	Ser	Ala	Pro	Thr	Leu	Ala	Ala	Thr	Ile	Ser	Thr	Arg	Leu
			50			55					60				
Pro	Ala	Ser	Gln	Arg	Gly	Thr	Pro	Arg	Ser	Ile	Trp	Cys	Thr	Gly	Thr
65					70					75					80
Thr	Ala	Arg	Ala	Ser	Trp	Thr	Arg	Ser	Ser	Pro	Thr	Gly	Thr	Ala	Arg
				85				90						95	
Leu	Pro	Gly	Thr	Arg	Thr	Ser	Arg	Thr	Lys	Arg	Ser	Arg	Arg	Ala	Pro
			100					105						110	
Pro	Ser	Ser	Ile	Ser	Trp	Thr	Pro	Pro	Arg	Ser	Ala	Glu	Thr	Arg	Cys
			115				120					125			
Ser	Trp	Thr	Arg	Ser	Arg	Arg	Ile	Gly	Asp	Ser	Arg	Arg	Pro	Ser	Lys
	130					135					140				
Ser	Asp	Cys	Thr	Gly											
145															

<210> 30050

<211> 97

<212> PRT

<213> A.fumigatus

<400> 30050

Pro	Thr	Tyr	Ala	Ala	Arg	Gly	Asn	Arg	Arg	Ile	Pro	Tyr	Asn	Arg	Val
1				5						10				15	
Ser	Ile	Gly	Glu	Tyr	Ile	Leu	Ser	Val	Asp	Ile	Val	Val	Ser	Arg	Asp

[illegible]

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<210> 30051
<211> 107
<212> PRT
<213> A.fumigatus
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Val	Tyr	Arg	Ser	His	Arg	Asn	Asn	Gln	Ser	Val	Asp	Gly	Ser	Ser	Leu
1				5					10					15	
Trp	Asn	Asn	Ile	Asp	Ala	Ile	Asn	Ser	Ile	Asn	Gln	Thr	Tyr	Glu	Met
			20					25					30		
Ala	Asp	Asn	Phe	Asp	Ile	Trp	Asn	Tyr	Arg	Ser	His	Leu	Leu	Leu	Thr
			35				40					45			
Glu	Leu	Lys	Asp	Gln	Ile	Thr	Arg	Phe	Ser	Cys	Ser	Gly	Gly	Ile	Trp
	50					55				60					
Thr	Gln	Thr	Thr	Asp	Val	Glu	Gly	Glu	Val	Asn	Gly	Leu	Leu	Thr	Tyr
65				70					75					80	
Asp	Arg	Arg	Leu	Lys	Arg	Val	Asp	Glu	Lys	Met	Trp	Lys	Asp	Asp	Ile
			85						90					95	
Gln	Ala	Leu	Tyr	Asp	Ala	Ala	Lys	Ala	Arg	Thr					
			100					105							

<400> 30052

Gln	Ser	Val	Val	Thr	Ser	Ser	Pro	Ala	Ser	Ser	Pro	Phe	Ile	Thr	Ser	
1				5					10					15		
Asn	Asn	Lys	Arg	Thr	Ser	Trp	Thr	Val	Arg	Ala	Ile	Gly	Pro	Ala	Thr	
			20					25					30			
Ser	Cys	Val	Ser	Val	Thr	Gly	Met	Ile	Pro	Leu	Arg	Glu	Ile	Cys	Pro	
		35				40						45				
Leu	Val	Gly	Leu	Asn	Pro	Met	Ile	Glu	His	Ala	Asp	Ala	Gly	Glu	Arg	
	50					55					60					
Ser	Glu	Phe	Ile	Val	Ser	Pro	Pro	His	Pro	Thr	Ser	Ala	Arg	Phe	Ala	
65					70					75					80	
Ala	Arg	Ala	Ala	Ala	Val	Pro	Pro	Asp	Glu	Pro	Pro	Gly	Val	Pro	Pro	
				85					90					95		
Glu	Val	Ile	Pro	Val	Pro	Arg	Leu	Thr	Ser	Gln	Arg	Arg	Asn	Ser	Asp	
			100					105					110			
Thr	Leu	Gln	Arg	Lys	Phe	Val	Glu	Ile	Gly	Leu	Thr	Lys	Asp	Asn	Gly	
		115					120					125				
Ala	Ser	Ala	Thr	Gln	Leu	Arg	Asp	Asp	Glu	Gly	Val	Gly	Phe	Cys	Leu	

11337

130

135

140

<210> 30053

<211> 317

<212> PRT

<213> A.fumigatus

<400> 30053

Lys	Pro	Ser	Ile	Pro	Tyr	Arg	Gln	Lys	Pro	Thr	Pro	Ser	Ser	Ser	Arg
1				5					10					15	
Ser	Cys	Val	Ala	Leu	Ala	Pro	Leu	Ser	Leu	Val	Arg	Pro	Ile	Ser	Thr
			20					25					30		
Asn	Phe	Arg	Trp	Arg	Val	Ser	Leu	Phe	Leu	Arg	Trp	Glu	Val	Arg	Arg
		35					40					45			
Gly	Thr	Gly	Met	Thr	Ser	Gly	Gly	Thr	Pro	Gly	Gly	Ser	Ser	Gly	Gly
	50					55					60				
Thr	Ala	Ala	Ala	Leu	Ala	Asn	Leu	Ala	Leu	Val	Gly	Cys	Gly	Gly	
65					70				75					80	
Asp	Thr	Met	Asn	Ser	Leu	Arg	Ser	Pro	Ala	Ser	Ala	Cys	Ser	Ile	Ile
			85						90					95	
Gly	Phe	Arg	Pro	Thr	Arg	Gly	Gln	Ile	Ser	Arg	Arg	Gly	Ile	Ile	Pro
			100					105					110		
Val	Thr	Asp	Thr	Gln	Asp	Val	Ala	Gly	Pro	Met	Ala	Arg	Thr	Val	Gln
		115					120					125			
Asp	Val	Arg	Leu	Leu	Phe	Asp	Val	Met	Lys	Gly	Glu	Asp	Ala	Gly	Asp
	130					135					140				
Glu	Val	Thr	Thr	Asp	Cys	Gln	Arg	Asp	Ala	Met	Glu	Arg	Ser	Ser	Glu
145					150					155				160	
Thr	Cys	Gly	Arg	Arg	Lys	Arg	Ile	Gly	Val	Leu	Arg	Ser	Phe	Phe	Ala
			165						170					175	
Asp	Asp	Gly	Asp	Pro	Glu	Gly	Ser	Ile	Val	Asn	Gln	Thr	Val	Leu	Asp
			180					185					190		
Ala	Leu	Asp	Lys	Ala	Arg	Ala	Asn	Val	Pro	Val	Glu	Leu	Val	Thr	Leu
	195						200						205		
Ser	Pro	Gln	Arg	Ala	His	Trp	Asp	Ile	Pro	Thr	Leu	Ile	Ser	Thr	Ala
	210					215						220			
Asp	Met	Gln	Ala	Tyr	Glu	Phe	Arg	Ser	Val	Ile	Asp	Thr	Phe	Leu	Gln
225					230					235				240	
Ser	Ser	Leu	Ile	Ala	Phe	Thr	Pro	His	Asp	Ser	Leu	Asn	Ser	Ile	Val
			245						250					255	
Ala	Ser	Gly	Glu	Tyr	Leu	Gln	Glu	Ala	Val	Thr	Pro	Ala	Leu	Tyr	Arg
		260					265						270		
Thr	Leu	Gln	Lys	Asp	Gly	Pro	Tyr	Thr	Met	Gln	Ser	Pro	Glu	Tyr	Glu
	275					280							285		
Ser	Arg	Leu	Ala	Thr	Ile	Ala	Leu	Lys	Lys	Ser	Val	Glu	Asp	Cys	
	290					295				300					
Phe	Glu	Ser	Ser	Pro	Arg	Gly	Gly	Arg	Thr	Glu	Ser	His			
305					310					315					

<210> 30054

<211> 214

<212> PRT

<213> A.fumigatus

<400> 30054

Leu Ser Cys Ser Lys Lys Gly Asp Met Gly Ser Ile Gly Ser Ile Asp

11338

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1           5           10           15
Ile Gln Glu Leu Thr Val Ser Glu Tyr His Asp Ala Leu Arg Asp Arg
      20           25           30
Arg Thr Thr Cys Thr Glu Val Val Val Ala Tyr Leu Asp Arg Ile Ser
      35           40           45
Arg Tyr Asn Ser Leu Leu Lys Ala Leu Ile Thr Val Asn Lys Asn Ala
      50           55           60
Leu Asp Val Ala Arg Gln Arg Asp Gln Glu Thr Glu Ala Leu Leu Gln
      65           70           75           80
Gln His Gly Lys Asp His Thr Leu Pro Pro Leu His Gly Val Pro Val
      85           90           95
Ile Leu Lys Asp Thr Tyr Ser Thr Leu Asp Met Pro Thr Thr Ser Gly
      100          105          110
Val Lys Ala Leu His Ser Leu Gln Thr Lys Ala Asp Ala Phe Val Val
      115          120          125
Thr Lys Leu Arg Arg Ala Gly Ala Ile Ile Leu Gly Lys Ala Asn Leu
      130          135          140
His Glu Leu Ser Leu Glu Gly Val Thr Val Ser Ser Leu Gly Gly Gln
      145          150          155          160
Thr Arg Asn Arg Tyr Asp Leu Arg Arg Asp Thr Arg Arg Phe Val Arg
      165          170          175
Trp Asp Gly Cys Cys Ser Ser Gly Glu Ser Ser Thr Arg Arg Met Trp
      180          185          190
Trp Gly Tyr Asp Glu Phe Ala Thr Leu Ala Cys Val Gly Val Leu Asp
      195          200          205
His Arg Ile Gln Thr Asn
      210

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<210> 30055

<211> 209

<212> PRT

<213> A.fumigatus

<400> 30055

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Leu Ser Arg His Ser His Val Ala Asp Thr Tyr Arg Thr Arg Thr Met
1           5           10           15
Pro Pro Lys Gly Thr Lys Pro Thr Asn Asp Glu Leu Leu Ala Gln Phe
      20           25           30
Asp Asp Leu Gly Ile Asp Ser Thr Thr Glu Lys Arg Pro Ser Lys Pro
      35           40           45
Ile Ala Ala Ser Thr Thr Ala Gln Ser Glu Asp Asp Ile Leu Ala Glu
      50           55           60
Leu Asp Asn Leu Ala Ser Gln Arg Pro Asn Ser Gly Pro Gly Thr Pro
      65           70           75           80
Arg Leu Ser Thr Asn Glu Pro Arg Pro Ala Thr Lys Ser Pro Lys Pro
      85           90           95
Ala Ala Val Ala Thr Pro Arg Ser Ser Glu Asp Lys Ser Ala Pro Arg
      100          105          110
Lys Ser Gly Glu Ser Val Arg Ser Ala Pro Ser Gly Asn Lys Ala Thr
      115          120          125
Thr Thr Gln Pro Ser Glu Gln Glu Lys Pro Lys Ala Gln Glu Ala Pro
      130          135          140
Ala Ser Gly Gly Gly Gly Trp Trp Gly Gly Ile Phe Ala Thr Ala Thr
      145          150          155          160
Ala Ala Met Lys Gln Ala Glu Ala Ala Val Lys Glu Ile Gln Gln Asn
      165          170          175

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11339

Glu Glu Ala Gln Lys Trp Ala Gln Gln Val Arg Gly Asn Val Gly Val
 180 185 190
 Leu Arg Asp Leu Gly Glu Trp Ala Met Leu Val Phe Ser Phe Asp Ser
 195 200 205
 Cys

<210> 30056
 <211> 140
 <212> PRT
 <213> A.fumigatus

<400> 30056
 Tyr Ser Leu Gly Gly Glu Leu Lys Asn Lys Ala Leu Pro Thr Phe Thr
 1 5 10 15
 Ser Leu Leu His Thr Ile Ala Pro Pro Ile Ser Ser His Glu Arg Leu
 20 25 30
 Gln Ile His Val Thr His Asp Ile Ser Gly Tyr Pro Ala Ile Asp Pro
 35 40 45
 Ile Val Tyr Ser Val Phe Ser Arg Val Met Ala Gln Val Glu Gly Gly
 50 55 60
 Asp Leu Leu Val Ile Gln Arg Gly Gln Glu Ser Ala Pro Lys Arg Gly
 65 70 75 80
 Leu Asp Leu Gly Thr Ser Phe Ser Thr Ala Gly Trp Gln Asp Gly Pro
 85 90 95
 Trp Trp Arg Thr Val Thr Pro Gly Thr Pro Arg Ser Ile Ala Gly Val
 100 105 110
 Arg Gly Thr Gly Glu Ala Thr Lys Leu Ala Arg Ala Ser Ala Glu Ser
 115 120 125
 Tyr Ala Thr Glu Tyr Phe Ala Leu Arg Gly Arg Val
 130 135 140

<210> 30057
 <211> 162
 <212> PRT
 <213> A.fumigatus

<400> 30057
 Ala Ile Ser Gln Thr Ser Ser Thr Glu Leu Phe Gln Ala Gly Pro Thr
 1 5 10 15
 Thr Glu Met Ala Thr Pro Pro Gly Val Val Asp Val Pro Glu Val Thr
 20 25 30
 Glu Glu Glu Val Ala Phe Ala Leu Tyr Leu His Asp Pro Ile His Gly
 35 40 45
 Ile Ala Phe His Thr Ile Ser Gln Thr Ile Pro Arg Lys Trp Ile Asp
 50 55 60
 Trp Leu Asp Ala Glu Ala Pro Ala Thr Ala Asp Pro Ser Val Glu Asp
 65 70 75 80
 Ala Lys Ala Pro Arg Thr Thr Val Pro Glu Asp Ile Ala Glu Ile Val
 85 90 95
 Ala Ser Gly Gly Val Asp Pro Arg Glu Trp Val Ala Glu Trp Leu Glu
 100 105 110
 Glu Ser Leu Ala Leu Ala Ile Gly Val Val Ala Gln Arg Tyr Val Ala
 115 120 125
 Arg Arg Met Gly Val Gly Glu Arg Gly Pro Gly Lys Gly Lys Met Arg
 130 135 140

11340

Ala Glu Gln Ala Ser Val Val Glu Ser Gly Ala Gly Glu Ala Ala Arg
 145 150 155 160
 Ala Leu

<210> 30058
 <211> 233
 <212> PRT
 <213> A.fumigatus

<400> 30058

Gln Val Leu Val Ala Gly Ala Leu Asn Ala Glu Val Ala Ala Ala Asn
 1 5 10 15
 Val Val Asp Gly Leu Val Val Asp His Glu Ala Ala Val Gly Val Leu
 20 25 30
 Gln Gly Gly Val Ser Gly Gln Asp Gly Val Val Gly Leu Asn Asn Gly
 35 40 45
 Gly Gly Val Leu Gly Ser Arg Val Asp Ala Glu Phe Gln Leu Arg Leu
 50 55 60
 Leu Ala Ile Val His Arg Glu Thr Leu His Gln Gln Ser Thr Glu Thr
 65 70 75 80
 Gly Thr Gly Thr Thr Thr Glu Arg Val Glu Asp Gln Glu Ser Leu Glu
 85 90 95
 Thr Ser Ala Val Val Gly Asp Pro Ala Asp Leu Val Glu Asn Leu Val
 100 105 110
 Asp His Leu Leu Ser Asn Gly Val Val Thr Thr Ser Ile Val Val Arg
 115 120 125
 Gly Ile Leu Leu Ala Arg Asp His Val Leu Gly Val Glu Lys Ala Thr
 130 135 140
 Val Gly Ala Gly Ala Asp Leu Ile Asp His Ile Gly Leu Glu Ile Thr
 145 150 155 160
 Val Asp Gly Thr Gly Asn Ile Phe Ala Leu Ala Phe Thr Leu Ser Asp
 165 170 175
 His Lys Val Val Ser Arg Arg Thr Ser Ala Asn Ser Lys Arg Thr Ser
 180 185 190
 Phe Arg Glu Glu Ser Ala Glu Ser Val Val Gly Val Gly Leu Leu Ala
 195 200 205
 Leu Leu Gly Gln Val Thr Ile Gly Leu Gly Asn Ser Lys Lys Met Ser
 210 215 220
 Val Asn Leu Arg Val Asn Ser Lys Arg
 225 230

<210> 30059
 <211> 100
 <212> PRT
 <213> A.fumigatus

<400> 30059

Arg Gln Ala Asn Ala Thr Lys Ser Gly Tyr Ala Ile Trp Gln Leu Tyr
 1 5 10 15
 Ala Ala Ser Leu Pro Ile Ala Ile Asn Thr Asn Thr Ile Lys Gln Pro
 20 25 30
 Thr Ser Phe Thr Leu Asp Thr Phe Thr Leu Ser Ser Thr Met Glu Arg
 35 40 45
 Thr Ile Ser Pro Leu Leu Asp Gln Pro Leu Leu Leu Thr Gln Ser Cys
 50 55 60

11341

Asn Ala Arg Phe Phe Asn Leu Ile Leu Lys Thr Pro Pro Ser Ala Lys
 65 70 75 80
 Ala Lys Tyr Asn Gln Pro Ala Ser Phe Gln Trp Ile Thr His Gln Pro
 85 90 95
 Pro Asn Arg Val
 100

<210> 30060
 <211> 137
 <212> PRT
 <213> A.fumigatus

<400> 30060
 Ile Tyr Ser Ile Ser Tyr Gln Ala Gln His Asp His Ile Asp His Phe
 1 5 10 15
 Tyr Ser His Gln Tyr Ile Arg Val Glu Asp Asn Ser Ile Leu Lys Met
 20 25 30
 Lys Asn Phe Asn Pro Leu Val Leu Leu Ser Leu Ile Pro Leu Val Val
 35 40 45
 Ala Asn Val Glu Lys Thr Ile Phe Val Ala Pro Gln Pro Ser His Ile
 50 55 60
 Pro Ser Thr Asp Ser Thr Leu Asp Asp Leu Gly Leu Glu Arg Leu Ser
 65 70 75 80
 Pro Ser Tyr Pro Thr Leu Arg Thr Phe Ile Asn Ala Ser Phe Pro Thr
 85 90 95
 Pro Asp Ser Pro Gly Thr Asp Ser Trp Phe Phe Leu Glu Asn Leu Thr
 100 105 110
 Pro Gly Gln Arg Tyr Glu Val Arg Ile Cys Tyr Leu Ala Thr Val Arg
 115 120 125
 Arg Leu Pro Ser His Cys Asn Gln His
 130 135

<210> 30061
 <211> 174
 <212> PRT
 <213> A.fumigatus

<400> 30061
 Gln Arg Lys Gly Gln Gly Lys Tyr Val Pro Arg Thr Ile Tyr Cys Asp
 1 5 10 15
 Leu Glu Pro Asn Val Val Asp Glu Val Arg Thr Gly Thr Tyr Arg Ser
 20 25 30
 Leu Phe His Pro Glu Asn Met Ile Thr Gly Lys Glu Asp Ala Ser Asn
 35 40 45
 Asn Tyr Ala Arg Gly His Tyr Thr Val Gly Lys Glu Met Ile Asp Gln
 50 55 60
 Val Leu Asp Lys Val Arg Arg Val Ala Asp Asn Cys Ala Gly Leu Gln
 65 70 75 80
 Gly Phe Leu Val Phe His Ser Phe Gly Gly Gly Thr Gly Ser Gly Phe
 85 90 95
 Gly Ala Leu Leu Met Glu Arg Leu Ser Val Asp Tyr Gly Lys Lys Ser
 100 105 110
 Lys Leu Glu Phe Cys Val Tyr Pro Ala Pro Gln Asn Ala Thr Ser Val
 115 120 125
 Val Glu Pro Tyr Asn Ser Ile Leu Thr Thr His Thr Thr Leu Glu His
 130 135 140

11342

Ser Asp Cys Ser Phe Met Val Asp Asn Glu Ala Ile Tyr Asp Ile Cys
 145 150 155 160
 Arg Arg Asn Leu Gly Ile Glu Arg Pro Ser Tyr Glu Asn Leu
 165 170

<210> 30062
 <211> 70
 <212> PRT
 <213> A.fumigatus

<400> 30062
 Asp Arg Val Asp Leu Asn Lys Leu Leu Ala Tyr Val Ser Glu Glu Ile
 1 5 10 15
 Lys Thr Arg Leu Gly Ile Gln Leu Glu Glu Gln Ile Thr Ala Trp Ser
 20 25 30
 Lys Asp Ala Lys Ser Arg Ile His Ser Ile Ser Tyr Ala Glu Leu Phe
 35 40 45
 Ile Ala Trp Val Ser Ile Ala Ser Leu Gly Thr Pro Ala Ala Asn Gly
 50 55 60
 Asp Thr Ala Ser Met Asn
 65 70

<210> 30063
 <211> 111
 <212> PRT
 <213> A.fumigatus

<400> 30063
 Leu Cys His Asp Asn Glu Ser Pro Arg Gly Ala Ser Lys Gln Pro Thr
 1 5 10 15
 Ser Thr Ser Ser Ser Thr Gln Thr Ala Ser Gly Ile Val Ser Val Thr
 20 25 30
 Asp Ser Ser Leu Leu Pro Pro Arg Thr His Pro Val Leu Thr Ala Thr
 35 40 45
 Thr Ser Ala Thr Thr Thr Thr His Arg Glu Pro Gly Cys Leu Gln Thr
 50 55 60
 Ser Gly Pro Arg Pro Arg Arg Pro Gly Tyr Pro Cys Asp Gly Pro Arg
 65 70 75 80
 Ala Arg Leu Gln Arg Arg Arg Cys Gln Val Gly Leu Glu Asp His Gly
 85 90 95
 Tyr Trp Arg Gly His Arg Cys Lys Cys Arg Gly Cys Thr Ala His
 100 105 110

<210> 30064
 <211> 301
 <212> PRT
 <213> A.fumigatus

<400> 30064
 Thr Asp Lys Gly Ile Glu Glu Trp Thr Tyr Tyr Val Leu Thr Leu Gly
 1 5 10 15
 Pro Ser Ala Val Leu Ser Ile Gly Ser Ile Cys Ala Phe Asp Asp Ser
 20 25 30
 Glu Ala Thr Phe Gln Thr Ala Gln Ser Ile Gly Leu Thr Lys Trp Glu
 35 40 45
 Pro Ala Asp Ser Ser Ile Ser Arg Ser Thr Phe Leu Lys Glu Ala Val

50 55 60
 Ser Arg Ala Tyr Lys Val Arg Glu Gly Ser Pro Ser Leu Pro Gly Ser
 65 70 75 80
 Arg Leu Ser Asn Ala Ser Ser Thr Ser Ser Arg Ser Ser Ala Gly Arg
 85 90 95
 Lys Thr Thr Ser Gln Ala Ser Ser Asn Thr Ser Asp Ser Asn Gln Ile
 100 105 110
 Asn Arg Arg Arg Gln Ala Val Phe Ala Ala Gln Leu Arg Asn Arg Arg
 115 120 125
 Thr Gln Gln Gln Asn Asn Pro Gly Asn Pro Ile Thr Phe Ala Glu Glu
 130 135 140
 Arg Pro Ile Ser Ser Tyr Ala Met Ile Met Ser Arg Leu Glu Gly Leu
 145 150 155 160
 Pro Ser Asn Gln Pro Leu Pro Pro Ala Pro Pro Arg Gln Gln Val Ala
 165 170 175
 Ser Ser Ala Ser Leu Thr Pro Arg Tyr Tyr Pro Pro Ala Pro Ile Gln
 180 185 190
 Tyr Ser Gln Pro Leu Leu Pro Pro Pro Pro Pro Thr Ala Asn Pro
 195 200 205
 Val Ala Tyr Arg Pro Gln Val Leu Asp Pro Val Asp Gln Ala Ile His
 210 215 220
 Val Met Val His Glu Leu Gly Phe Lys Glu Glu Asp Val Lys Trp Ala
 225 230 235 240
 Leu Lys Ile Thr Asp Thr Gly Glu Gly Ile Asp Ala Asn Ala Ala Val
 245 250 255
 Ala Leu Leu Thr Arg Glu Gln Glu Arg Tyr Glu Gln Arg Arg Ser Gly
 260 265 270
 Arg Phe Ala Phe Arg Ser Lys Ser Pro Ser Leu Leu Glu Ser Val Ile
 275 280 285
 Asn Ser Gln Glu Ser Val Asn Ser Gly Trp Arg Trp Ala
 290 295 300

<210> 30065
 <211> 74
 <212> PRT
 <213> A.fumigatus

<400> 30065
 Pro Gln Arg Ser Arg Ser Arg Trp Leu Val Arg Arg Ala Leu Ser Arg
 1 5 10 15
 Ser Met Gly Met Val Phe Val Thr Ala Gly Gly Lys Gln Lys Pro Glu
 20 25 30
 Ser Phe Lys Glu Ser Val Gln Ile Leu Lys Gly Ala Thr Asp Phe Val
 35 40 45
 Gly Lys Phe Phe Tyr Gln Ile Ser Gln His Arg Asn Tyr Gln Arg Glu
 50 55 60
 Leu Asp Gly Leu Ala Ser Thr Ile Ala Phe
 65 70

<210> 30066
 <211> 253
 <212> PRT
 <213> A.fumigatus

<400> 30066
 Met Ser Ile Val Lys Glu Leu Ala Lys Arg Ser Trp Asp Arg Arg Glu

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1           5           10           15
Leu Asn Ser Ser Phe Phe Phe Val Gln Leu Phe Ser Val Pro Pro Leu
                20                25                30
Tyr Phe Pro Ser Arg Ser Cys Pro Ala Thr Asn Ser Gln Lys Ser Phe
                35                40                45
Glu Leu Pro Lys Asn Gln Gln Gln Pro Leu His Lys Met Ser Phe Arg
                50                55                60
Lys Arg Asn Ile Gly Leu Ser Gly Thr Val Asp Arg Thr Pro Ile Ala
65                70                75                80
Asn Thr Ser Ala Gln Ala Pro Gln Ala Thr Thr Thr Thr Glu Ser His
                85                90                95
Pro Gly Ile Arg Pro Ser Pro Asp Asp Gly Arg Pro Thr Thr Ser Thr
                100                105                110
Gly Thr Arg Ser Leu Asp Asn Leu Leu Ala Gly His Gly Gly Leu Pro
                115                120                125
Ile Gly Lys Ile Leu Leu Ile Glu Glu Asn Gly Thr Thr Asp Phe Ala
130                135                140
Gly Ala Leu Leu Arg Tyr Tyr Ala Ala Glu Gly Val Val Gln Asp Gln
145                150                155                160
Lys Val His Val Ile Gly Met Pro Glu Gln Trp Gly Arg Ser Leu Pro
                165                170                175
Gly Leu Ile Gly Pro Ala Asp Met Leu Asp Glu Lys Ser Asp Lys Lys
                180                185                190
Lys Ser Glu Arg Met Lys Ile Val Trp Arg Tyr Glu Arg Leu Gly Glu
195                200                205
Phe Gly Ala Gly Val Ala Gly Ser Arg Gly Met His Arg Gln Gln Met
210                215                220
Arg Leu Ser Ile Gln Ile Leu Leu Asp Glu Ile Val Leu Thr Lys Ser
225                230                235                240
Ser Ser Cys Cys Phe Arg Arg Thr Lys Pro Asn Ser Cys
                245                250

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<210> 30067

<211> 239

<212> PRT

<213> A.fumigatus

<400> 30067

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Gln Lys Val Ala Pro Ala Val Ser Gly Glu Gln Ser Pro Thr Ala Ala
1           5           10           15
Asp Met Asn Lys Gln Glu Ala Phe Cys His Ala Phe Asp Leu Thr Lys
                20                25                30
Arg Leu Thr His Pro Ser Ile Ser Asn Leu Thr Tyr Ile Pro Leu Thr
                35                40                45
Pro Ser Asn Glu Pro Leu Phe Ile Ser Ile Tyr Lys Arg Leu Gln Thr
50                55                60
Ala Ile Ala Ser Ser His Pro Ser Thr Val His Arg Val Val Ile Pro
65                70                75                80
Ser Leu Leu Asn Pro Thr Ile Tyr Pro Ser Glu Val Ser Gln Pro Asp
85                90                95
His Val Leu Pro Phe Leu His Ala Leu Arg Ala Leu Met Asn Thr Gln
100                105                110
Gly His Arg Ile Thr Ala Met Ile Thr Val Pro Leu Ser Leu Phe Pro
115                120                125
Arg Ser Ser Gly Leu Val Arg Trp Met Glu Ile Ile Ser Asp Gly Val
130                135                140

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11345

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Ile Glu Leu Cys Pro Phe Pro His Ser Ala Asp Ala Leu Ala Thr Ser
145          150          155          160
Gly Ala Ala Thr Ser Gln Glu Glu Pro Pro Gln Gly Met Leu Lys Thr
          165          170          175
His Lys Leu Pro Val Leu His Glu Arg Gly Gly Gly Ser Asp Gln Asn
          180          185          190
Val Gly Gln Asp Trp Ala Phe Thr Leu Ser Arg Arg Arg Phe Glu Ile
          195          200          205
Lys Pro Phe Ser Leu Pro Pro Ala Glu Gly Asp Lys Glu Ala Gln Asp
          210          215          220
Ala Ala Gly Pro Gly Gly Met Pro Lys Lys Ala Asp Leu Glu Phe
225          230          235

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<210> 30068

<211> 61

<212> PRT

<213> A.fumigatus

<400> 30068

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Phe Arg Pro His Ala Leu Cys Phe Asp Arg Gly Ile Asp Leu Ser Cys
1          5          10          15
Thr Thr His Leu Leu Thr Ile Cys Ala Tyr Arg Ala Val Phe Val Ser
          20          25          30
Phe Gly Gly Leu Leu Leu Tyr Leu Glu Gly Pro Tyr Lys Lys Leu Ala
          35          40          45
Pro Leu Arg Ile Asp Tyr Val Tyr Leu Leu Leu Lys Lys
          50          55          60

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<210> 30069

<211> 125

<212> PRT

<213> A.fumigatus

<400> 30069

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Gln Phe Leu Val Lys Ser Leu Ser Asn Arg Ser Val Ala Asn Met Ser
1          5          10          15
Asp Pro Leu Leu Phe Asp Asp Thr Phe Thr Ile Thr Ala Ile Asn Ser
          20          25          30
Gln Lys Tyr Asp Arg Val Ser Arg Leu Ser Cys Thr Ser Ser Asp Ser
          35          40          45
Val Thr Thr Phe Thr Leu Asp Ile Asn Ser Glu Leu Tyr Pro Cys Ala
          50          55          60
Val Gly Glu Ser Val Ser Met Ala Leu Ala Ser Thr Leu Ser Leu Asp
          65          70          75          80
Gly Lys Glu Ala Thr Gly Ala Lys Ala Ser Trp Arg Glu Val Gly Ala
          85          90          95
Gly Glu Gln Thr Leu Ala Asn Asp Tyr Asp Tyr Val Cys His Gly Lys
          100          105          110
Val Tyr Arg Phe Glu Glu Ala Ala Thr Gln Gly Asn Met
          115          120          125

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<210> 30070

<211> 546

<212> PRT

<213> A.fumigatus

<400> 30070

Gly Val Ala Glu Lys Gln Lys Val Gly Ser Ile His Asp Ser Arg Ser
 1 5 10 15
 Met Ser Ser Asp His Arg Gln Val Asp Ser Ala His Asn Ser Gly Ser
 20 25 30
 Val Pro Asp Thr Phe Gly Ala Asp Ser Gly Ser Thr Leu Met Ala Ala
 35 40 45
 Pro Thr Val Ala Ser Pro Gly Pro Ile Glu Asp Ser Thr Ser Gln Asp
 50 55 60
 Gly Asp Arg Pro Arg His Arg Asp Asp Ala Asp Met Gln Glu Ser Ser
 65 70 75 80
 Asn Lys Ala Phe Ser Tyr Pro Met Pro Thr Gly His Leu Gly Asp Ala
 85 90 95
 Arg Arg Gly Leu Ser Leu Pro Asn Ser Gly Phe Gln Lys Ser Gly Gln
 100 105 110
 Arg Ser Pro Ser Ala Lys Lys His Arg Cys Pro Tyr Cys Ala Thr Glu
 115 120 125
 Phe Thr Arg His His Asn Leu Lys Ser His Leu Leu Thr His Ser Gln
 130 135 140
 Glu Lys Pro Tyr Val Cys Gln Thr Cys Gln Ser Arg Phe Arg Arg Leu
 145 150 155 160
 His Asp Leu Lys Arg His Thr Lys Leu His Thr Gly Glu Arg Pro His
 165 170 175
 Ile Cys Pro Lys Cys Gly Arg Arg Phe Ala Arg Gly Asp Ala Leu Ala
 180 185 190
 Arg His Asn Lys Gly Gln Gly Gly Cys Ala Gly Arg Arg Ala Ser Met
 195 200 205
 Gly Ser Phe Ala Pro Glu Asp Asp Tyr Gly Glu Gly Ala Val Ala Pro
 210 215 220
 Ser Ala Glu Asn Thr Met Asp Gly Leu Val Tyr Ala Glu Pro Glu Arg
 225 230 235 240
 Met Asp Glu Glu Asp Glu Arg Arg Leu Asn Met Pro Ser Ile Lys Lys
 245 250 255
 His Asp Ala Pro Ser Asp Ser Ile Pro Arg Ser His Ser Gly Ser Ser
 260 265 270
 Tyr Gln Pro Arg Gln Pro Asn Thr Tyr Pro Pro Ile Ala Ala Gly Arg
 275 280 285
 Pro Ser Pro Gly Gly Leu Phe Pro Pro Pro Thr Ser His Gly Gly Ser
 290 295 300
 Ser Ala Ser Thr Ser Pro Val Ser Gln Ser Gly Asn Met Thr Phe Pro
 305 310 315 320
 Pro Pro Gly Gln Pro Ser Gly Ala Thr Val Tyr Gln Ser Thr Asn Val
 325 330 335
 Thr Glu Ser Pro Arg Pro Leu Ser Pro Asn Ala Leu Thr Ser His Gln
 340 345 350
 Gly Gly His Gly Pro Glu Gly Gly Ser Ile Gln Leu His Arg Ser His
 355 360 365
 Ser Pro Ser Met Ser Gln Pro Phe Gln Gln Gln Pro Phe Ser Arg Ser
 370 375 380
 Gly Pro Ser Gln Gly Pro Val Thr Asn His Ser Ala Pro Gly Leu Gly
 385 390 395 400
 Leu Pro Pro Ser Gln Pro Gly Ala Pro Gln Leu Pro Pro Pro Pro Gly
 405 410 415
 Leu Gly Pro Ser Asp Thr Arg Phe Ser Leu His Asn Pro Gly Ser Val
 420 425 430
 Gln Pro Pro Gln Gln Ala Ala Thr Lys His Gly Ser Ser Leu Gly His


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<210> 30071
<211> 76
<212> PRT
<213> A.fumigatus
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<400> 30071
Asn Thr Met Arg Asn Pro Ile Ile Ala Tyr Pro Glu Ser Tyr His Ile
1          5          10          15
Ala Arg Gly Leu Asn Tyr Gly Val Cys Ser Leu Leu Asn Gly Tyr Ser
          20          25          30
Lys Gly Ser Ala Lys Arg Trp Ala Thr Tyr Pro Thr Ala Lys Pro Asp
          35          40          45
Gly Ser Thr Gln Ser Leu Glu Asp Ser Asn Tyr Ile Thr Ala Gln Ser
          50          55          60
Ser Ser Gly Lys Arg His Thr Leu Val Arg Ser Gln
65          70          75

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<210> 30072
<211> 187
<212> PRT
<213> A.fumigatus
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<400> 30072															
Val	Ser	Gly	Leu	Thr	Arg	Ser	Val	Gly	Ile	Gly	Arg	Gly	Leu	Ala	Ala
1				5					10					15	
His	Tyr	Leu	Ala	Gln	Pro	Gly	Thr	Thr	Val	Ile	Gly	Thr	Val	Arg	Asp
			20					25					30		
Asn	Ser	Ser	Glu	Lys	Ala	Lys	Asp	Leu	Ser	Lys	Leu	Pro	Lys	Gly	Arg
		35					40					45			
Gly	Cys	Asp	Leu	Ile	Ile	Val	Pro	Leu	Ser	Val	Asp	Asn	Pro	Ser	Arg
	50					55					60				
Val	Ala	Glu	Ala	Ala	Ser	Glu	Ile	Gln	Thr	Arg	His	His	Ile	Glu	His
65					70					75				80	
Ile	Asp	Val	Val	Ile	Ala	Asn	Ala	Gly	Ile	Cys	Asn	His	Trp	Gly	Pro
				85					90					95	
Ile	Gln	Glu	Met	Thr	Asp	Leu	Asp	Val	Leu	Ser	His	Phe	Ala	Val	Asn
			100					105					110		
Thr	Leu	Gly	Pro	Leu	Arg	Leu	Phe	Thr	Ala	Met	Ala	Pro	Leu	Leu	Gln
		115					120					125			
Arg	Ala	Ser	Thr	Pro	Lys	Phe	Val	Tyr	Ile	Ser	Thr	Leu	Leu	Ala	Ser

11348

130		135		140
Ile His Ala Ile Glu Gln Met Pro Ser Leu Thr Ala Ala Tyr Gly Met				
145		150		155
Ser Lys Val Ala Gly Asn Tyr Leu Val Lys Lys Ile Asp Ala Glu Asn				
	165		170	175
Lys His Leu Ile Thr Leu Ser Ile Asp Pro Gly				
	180		185	

<210> 30073

<211> 109

<212> PRT

<213> A.fumigatus

<400> 30073

Arg Ile Arg Ala Gly Ser Cys Pro Glu Arg Arg Gly Leu Thr Val Asp				
1	5	10		15
Gly Phe Ser Glu Thr Lys Asp Arg Ile Cys Val Asn Val Ala Ser Glu				
	20	25		30
Ala Gln Asn Arg Val Ala Val Asp Thr Ser Val Phe Lys Val Asp Pro				
	35	40		45
Ser Thr Ser Val Leu Ala His Asn Asn Leu Gln Phe Val Val Pro Pro				
	50	55		60
Val Gly Thr Gly Thr Asn Leu Asp Thr Ser Asp Asp Leu Ala Arg Thr				
	65	70		75
Thr Glu His Val Gly Ala Lys Leu Arg Arg Ile Phe Arg Phe Cys Val				
	85	90		95
Val Gln Thr Glu Asp Lys Gln Cys Cys Val Asp Asn Val				
	100	105		

<210> 30074

<211> 85

<212> PRT

<213> A.fumigatus

<400> 30074

Tyr Ile Ser Gln Thr Arg Pro Tyr Phe Pro Ile Leu Gly Ala Glu Asn				
1	5	10		15
Thr Lys Gly Thr Leu Cys Gly Leu Leu Tyr Trp Gly Leu Phe Gly Ile				
	20	25		30
Ala Asn Tyr His Leu Gln Ile Asp Gly Asp Ile Leu Leu Ala His Asp				
	35	40		45
Gln Val Val Val Ile Val Lys Asn Ile Lys Pro Val Glu Leu Thr Pro				
	50	55		60
Ala Gln Asn His Asp Val Leu Cys Val Arg Val Leu Ala Asp Asp Thr				
	65	70		75
Pro Ile Val Arg Gly				80
	85			

<210> 30075

<211> 154

<212> PRT

<213> A.fumigatus

<400> 30075

Thr Ser Leu Ala Lys Arg Arg Thr Val Trp Pro Ser Thr Pro Val Cys				
1	5	10		15

Ser Lys Leu Ile Pro Ala Leu Pro Phe Leu His Thr Ile Ile Cys Ser
 20 25 30
 Leu Ser Tyr His Arg Leu Val Gln Val Pro Thr Trp Thr Pro Leu Thr
 35 40 45
 Thr Ser Leu Val Pro Gln Ser Met Leu Ala Gln Ser Cys Asp Val Phe
 50 55 60
 Ser Gly Ser Val Ser Ser Arg Gln Arg Thr Asn Asn Ala Val Ser Thr
 65 70 75 80
 Met Phe Arg His Ser Glu Leu Leu Asp Pro Ser Ser Leu Val Ser Ile
 85 90 95
 Ser Leu Arg Pro Asp His Thr Phe Arg Phe Ser Val Leu Arg Thr Pro
 100 105 110
 Arg Ala Pro Phe Ala Ala Ser Cys Thr Gly Val Cys Ser Ala Ser Pro
 115 120 125
 Ile Ile Thr Cys Arg Leu Thr Ala Ile Ser Phe Ser Leu Met Ile Lys
 130 135 140
 Ser Leu Leu Ser Ser Arg Thr Ser Asn Gln
 145 150

<210> 30076

<211> 147

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (9), (26)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30076

Pro Gly Phe Asn Pro Gly Leu Met Xaa Arg Val Met Pro Pro Asn Pro
 1 5 10 15
 Asn Ser Trp Thr Ala Gly Ser Ala Arg Xaa Arg Ser Gly Glu Lys Lys
 20 25 30
 Gly Leu Thr Phe Ala Asn Gln Asp Ser Leu Pro Lys Leu Pro Ile Pro
 35 40 45
 Asp Leu Glu Ser Thr Cys Lys Lys Tyr Leu Glu Ala Leu Ser Ala Leu
 50 55 60
 Gln Thr Pro Arg Glu Gln Glu Glu Thr Lys Ala Ala Val Gln Glu Phe
 65 70 75 80
 Leu Lys Thr Asp Gly Pro Ile Leu Gln Glu Lys Leu Lys Asn Tyr Ala
 85 90 95
 Ser Ser Lys Thr Ser Tyr Ile Glu Gln Phe Cys Met Tyr Ser Leu Lys
 100 105 110
 His Val Ala Cys Asn Cys Ser Asn Ile Gln His Ile Gly Tyr Asp Ser
 115 120 125
 Tyr Leu Asn Tyr Asp Asn Arg Lys Asp Phe Ser Met Leu Leu Thr Ala
 130 135 140
 Leu Asp Arg
 145

<210> 30077

<211> 561

<212> PRT

<213> A.fumigatus

<400> 30077

Ala Asp Leu Val Thr Ala Val Val Leu Asn Leu Asn Pro Phe Phe Leu
 1 5 10 15
 Leu Glu Asp Asp Pro Thr Pro Ala Arg Asn Asn Gln Val Thr Arg Ala
 20 25 30
 Ala Ser Leu Val Val Ser Ala Leu Ser Phe Val Arg Ala Val Arg Arg
 35 40 45
 Glu Glu Leu Pro Pro Asp Thr Val Arg Gly Thr Pro Leu Cys Met Tyr
 50 55 60
 Gln Tyr Ser Arg Leu Phe Gly Thr Ala Arg Leu Pro Thr Asp Asn Gly
 65 70 75 80
 Cys Ile Ile Ser Gln Asp Pro His Ala Lys His Ile Val Val Leu Cys
 85 90 95
 Arg Gly Gln Phe Tyr Trp Phe Asp Val Leu Asp Asp Asn Asn Asp Leu
 100 105 110
 Ile Met Ser Glu Lys Asp Ile Ala Val Asn Leu Gln Val Ile Ile Gly
 115 120 125
 Asp Ala Glu Gln Thr Pro Val Gln Glu Ala Ala Lys Gly Ala Leu Gly
 130 135 140
 Val Leu Ser Thr Glu Asn Arg Lys Val Trp Ser Gly Leu Arg Asp Ile
 145 150 155 160
 Leu Thr Lys Asp Glu Gly Ser Asn Asn Ser Glu Cys Leu Asn Ile Val
 165 170 175
 Asp Thr Ala Leu Phe Val Leu Cys Leu Asp Asp Thr Glu Pro Glu Asn
 180 185 190
 Thr Ser Gln Leu Cys Ala Asn Met Leu Cys Gly Thr Ser Glu Val Val
 195 200 205
 Arg Gly Val Gln Val Gly Thr Cys Thr Asn Arg Trp Tyr Asp Lys Leu
 210 215 220
 Gln Ile Ile Val Cys Lys Asn Gly Ser Ala Gly Ile Asn Phe Glu His
 225 230 235 240
 Thr Gly Val Asp Gly His Thr Val Leu Arg Phe Ala Ser Asp Val Tyr
 245 250 255
 Thr Asp Thr Ile Leu Arg Phe Ala Lys Thr Ile Asn Gly Gln Ala Pro
 260 265 270
 Ser Leu Trp Ala Thr Ala Ser Pro Asp Pro Ser Lys Arg Asp Pro Lys
 275 280 285
 Ser Phe Gly Asn Val Ser Thr Thr Pro Arg Lys Leu Glu Trp Asp Met
 290 295 300
 Val Pro Glu Leu Ser Ile Ala Leu Arg Phe Ala Glu Ser His Leu Ala
 305 310 315 320
 Asp Leu Leu Gln Gln His Glu Phe Ala Val Leu Asp Phe Glu Gly Tyr
 325 330 335
 Gly Lys Asn Phe Ile Thr Ser Met Gly Phe Ser Pro Asp Ala Phe Val
 340 345 350
 Gln Met Ala Phe Gln Ala Ala Tyr Tyr Gly Leu Tyr Gly Arg Val Glu
 355 360 365
 Asn Thr Tyr Glu Pro Ala Met Thr Lys Phe Phe Leu His Gly Arg Thr
 370 375 380
 Glu Ala Ile Arg Thr Val Thr Asn Glu Cys Val Asp Phe Val Lys Thr
 385 390 395 400
 Phe Trp Gly Asp Asn Pro Ala Glu Gln Lys Val Asn Ala Leu Arg Lys
 405 410 415
 Ala Thr Glu Lys His Thr Ala Ile Thr Lys Glu Cys Ser Lys Gly Arg
 420 425 430
 Gly Gln Asp Arg His Leu Tyr Ala Leu Tyr Cys Leu Trp Gln Arg Ser

	435		440		445										
Phe	Asp	Glu	Asp	Ser	Pro	Ser	Ala	Gly	Asn	Ser	Val	Glu	Asn	Gly	Ser
	450					455					460				
Asn	Gly	Tyr	Ser	Ser	Pro	Val	Glu	Lys	Arg	Ile	Ala	Ile	Gly	Ser	Pro
465					470					475					480
Lys	Thr	Ser	Ser	Ser	Met	Ser	Glu	Asp	Gly	Leu	Ser	Ser	Asn	Gly	Tyr
				485					490					495	
Ser	Tyr	Arg	Gly	Ile	Arg	Thr	Leu	Gln	Pro	Asn	Ser	Gly	Ile	Phe	Ser
			500					505					510		
Asp	Pro	Gly	Trp	Asp	Lys	Ile	Lys	Thr	Arg	Ser	Gly	Gln	His	Pro	Thr
		515					520					525			
Ala	Gly	Thr	Arg	Val	Glu	Ala	Phe	Arg	Phe	Arg	Pro	Thr	Ser	Glu	Lys
	530					535					540				
Asp	Leu	Gly	Ser	Leu	His	Tyr	Pro	Arg	Thr	Thr	Ile	Leu	Asn	Cys	Ala
545					550					555					560
Leu															

<210> 30078

<211> 175

<212> PRT

<213> A.fumigatus

<400> 30078

Asp	Asp	Arg	Gln	Leu	Gly	Ser	Phe	Gln	Pro	Arg	Gly	Glu	Asp	Ser	Asp
1				5					10					15	
Glu	His	Pro	Gln	Ile	Ser	Ser	Ala	Asn	Ile	Lys	Arg	Gly	Asp	Thr	Gln
			20					25					30		
Leu	Ala	Ile	Phe	Lys	Val	Lys	Gly	Lys	Tyr	Tyr	Ala	Thr	Gln	Gln	Met
		35					40					45			
Cys	Pro	His	Lys	Arg	Ala	Phe	Val	Leu	Ser	Asp	Gly	Leu	Ile	Gly	Asp
	50					55					60				
Asp	Asp	Ala	Gly	Lys	Tyr	Trp	Val	Ser	Cys	Pro	Tyr	His	Lys	Arg	Asn
65				70					75					80	
Phe	Glu	Leu	Asn	Gly	Glu	Gln	Ala	Gly	Arg	Cys	Thr	Asn	Asp	Glu	Ser
			85					90						95	
Met	Asn	Ile	Ala	Thr	Phe	Pro	Val	Glu	Glu	Arg	Asp	Asp	Gly	Trp	Val
			100					105					110		
Tyr	Met	Lys	Leu	Pro	Pro	Val	Glu	Glu	Leu	Asp	Ser	Val	Leu	Gly	Thr
		115					120					125			
Glu	Lys	Trp	Lys	Val	Arg	Lys	Gly	Glu	Ala	Pro	Asp	Pro	Phe	Gln	Lys
	130					135					140				
Val	Asp	Lys	Arg	Tyr	Lys	Gly	Met	Arg	Gly	Lys	Lys	Ala	Cys	Asp	Ile
145					150					155					160
Ser	Thr	Lys	Ala	Pro	Thr	Thr	Gln	Ala	Ala	Asn	Ile	Ile	Asp	Trp	
				165				170						175	

<210> 30079

<211> 62

<212> PRT

<213> A.fumigatus

<400> 30079

Thr	Leu	Gly	Phe	Ser	Cys	Ala	Trp	Ser	Ile	Phe	Ala	Val	Asn	Trp	Ser
1				5					10					15	
Val	Arg	Ser	Phe	Tyr	Ile	Thr	Pro	Pro	Met	Gly	Leu	Ile	Leu	Leu	Gln

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<210> 30080
<211> 109
<212> PRT
<213> A.fumigatus
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<210> 30081
<211> 72
<212> PRT
<213> A.fumigatus
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<210> 30082
<211> 214
<212> PRT
<213> A.fumigatus
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<400> 30082
His Lys Ser Ser Val Asn Glu Ile Phe Asn Pro Glu Arg Val Asp Lys
1          5          10          15
Phe Tyr Ser Gln Ser Ala Ala Glu Arg Gln Arg Ser Leu Leu Ala Asp
20          25          30
Lys Ala Thr Asn Tyr Ser Val Val Arg Leu Glu Leu Ile Glu Glu Ile
35          40          45

```

Tyr Asn Asp Met Tyr Leu Gln Arg Val Lys Asn Pro Asp Glu Thr Gln
 50 55 60
 Trp Gln His Arg Ile Leu Pro Glu Arg Lys Ile Thr Arg Val Glu His
 65 70 75 80
 His Gly Pro Gln Ser Arg Met Arg Ile His Leu Lys Ser Ser Lys Pro
 85 90 95
 Glu Ser Glu Gly Ala Ala Asn Asp Val Lys Glu Thr Leu Glu Val Asp
 100 105 110
 Ala Leu Met Val Ala Thr Gly Tyr Asn Arg Asn Ala His Glu Arg Leu
 115 120 125
 Leu Ser Lys Val Gln His Leu Arg Pro Thr Gly Gln Asp Gln Trp Lys
 130 135 140
 Pro His Arg Asp Tyr Arg Val Glu Met Asp Pro Ser Lys Val Ser Ser
 145 150 155 160
 Glu Ala Gly Ile Trp Leu Gln Gly Cys Asn Glu Arg Thr His Gly Leu
 165 170 175
 Ser Asp Ser Leu Leu Ser Val Leu Ala Val Arg Gly Gly Glu Met Val
 180 185 190
 Gln Ser Ile Phe Gly Glu Gln Leu Glu Arg Ala Ala Val Gln Gly His
 195 200 205
 Gln Leu Arg Ala Met Leu
 210

<210> 30083

<211> 356

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (6), (352)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30083

Met Val Val Asn Val Xaa His Gly Ala Pro Leu Ala Gly Thr Val Gln
 1 5 10 15
 Arg His Leu Met Trp Lys Val Asp Arg Leu Val Val Leu Ala Ser Thr
 20 25 30
 Ser Gly Met Phe Cys Val Leu Leu Pro Arg Thr Ala Arg Gly Ser Val
 35 40 45
 Gly Phe Ala Asn Gly Arg Val Cys Ser Cys Val Pro Asn Lys Met Thr
 50 55 60
 Trp Asn Phe Ala Ser Ile Asn Glu Ala Leu His Val Gly Glu His Tyr
 65 70 75 80
 Gly Tyr Asp Ile Pro Lys Asp Val Lys Ile Asn Tyr Arg Gln Phe Lys
 85 90 95
 Glu Thr Arg Asp Ala Val Val Lys Arg Leu Asn Gly Ala Tyr Glu Arg
 100 105 110
 Asn Trp Gly Lys Glu Gly Ile Asp Leu Val His Gly Arg Ala Arg Phe
 115 120 125
 Val Glu Pro Lys Val Ile Glu Val Thr Leu Asn Asp Gly Ala Lys Ala
 130 135 140
 Arg Tyr Ser Ala Pro His Ile Leu Ile Ala Thr Gly Gly Arg Pro Ser
 145 150 155 160
 Ile Pro Pro Val Lys Gly Ala Glu His Gly Ile Thr Ser Asp Gly Phe
 165 170 175

11354

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Phe Glu Ile Glu Glu Leu Pro Pro Lys Val Ala Val Val Gly Ala Gly
      180                      185                      190
Tyr Ile Ala Val Glu Leu Ala Gly Val Met Ala Ala Val Gly Val Glu
      195                      200                      205
Thr His Met Phe Ile Arg Gly Glu Thr Met Leu Arg Lys Phe Asp Pro
      210                      215                      220
Met Ile Gln Lys Thr Met Thr Glu Arg Tyr Glu Ala Thr Gly Val His
      225                      230                      235                      240
Ile His Lys Lys His Gly Gly Phe Lys Glu Val Gln Leu Val Lys Asp
      245                      250                      255
Gly Lys Gly Lys Asp Lys Val Leu Lys Leu Ile Gly Asn Asp Gly Ser
      260                      265                      270
Glu Glu Glu Phe Asn Glu Leu Leu Trp Ala Ile Gly Arg Gln Pro Glu
      275                      280                      285
Val Glu Asp Leu His Leu Glu Ile Pro Gly Val Lys Leu Asn Glu Ser
      290                      295                      300
Gly His Val Val Val Asp Gln Tyr Gln Asn Thr Ser Ala Glu Gly Val
      305                      310                      315                      320
Tyr Ala Leu Gly Asp Val Thr Gly Val Ala Glu Leu Thr Pro Gly Thr
      325                      330                      335
Leu Phe Ser Ser Ser Pro Arg Gly Trp Lys Asp Arg Arg Gly Val Xaa
      340                      345                      350
Asp Leu Cys Ala
      355

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<210> 30084
 <211> 305
 <212> PRT
 <213> A.fumigatus

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<400> 30084
Arg Thr Trp Gly Gln Phe Arg Asn Ala Ser Asp Ile Thr Glu Ser Ile
1      5      10      15
Asn Thr Leu Arg Arg Gly Val Leu Val Leu Val Asp Asn Asp Val Ala
      20      25      30
Thr Phe Val Glu Leu His Ala Gly Asp Leu Glu Met Gln Ile Leu Asp
      35      40      45
Leu Arg Leu Thr Ala Asp Ser Pro Gln Gln Leu Val Glu Phe Leu Leu
      50      55      60
Arg Pro Val Ile Ala Asp Gln Leu Glu His Leu Val Leu Ala Leu Ala
      65      70      75      80
Val Leu His Gln Leu His Leu Leu Glu Pro Ala Met Leu Leu Val Asn
      85      90      95
Val His Ala Gly Arg Leu Val Pro Leu Arg His Arg Leu Leu Asn His
      100     105     110
Arg Val Glu Leu Ala Gln His Arg Leu Thr Pro Asn Glu His Val Arg
      115     120     125
Leu His Ala Asp Gly Ser His Asp Thr Ser Gln Leu Asp Gly Asn Val
      130     135     140
Thr Gly Thr His Asp Ser Asn Leu Gly Arg Glu Leu Leu Asp Leu Lys
      145     150     155     160
Glu Pro Val Ala Ser Asp Thr Met Leu Gly Thr Leu Asp Arg Arg Asn
      165     170     175
Thr Gly Pro Ala Thr Gly Arg Asp Glu Asn Val Arg Arg Arg Val Pro
      180     185     190
Arg Leu Cys Ala Val Ile Glu Arg Asn Leu Asp Asp Leu Gly Phe Asp

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195 200 205
 Glu Pro Ser Ala Thr Val His Glu Val Asp Ala Phe Leu Ala Pro Val
 210 215 220
 Ser Leu Val Gly Thr Val Gln Thr Phe Asp Asp Gly Val Ala Gly Phe
 225 230 235 240
 Leu Glu Leu Thr Val Val Asp Leu Asp Val Leu Gly Asp Val Val Ala
 245 250 255
 Val Val Leu Ala Asp Val Glu Ser Phe Val Asp Gly Ser Glu Ile Pro
 260 265 270
 Gly His Leu Val Gly Asp Thr Ala Ala Asn Pro Pro Val Ser Lys Ser
 275 280 285
 His Ala Ser Pro Gly Arg Thr Trp Glu Gln Asp Thr Glu His Thr Arg
 290 295 300
 Arg
 305

<210> 30085

<211> 741

<212> PRT

<213> A.fumigatus

<400> 30085

Arg His Glu Arg Cys Asp Phe Ser Thr Ile His Gly Leu Arg His Phe
 1 5 10 15
 His His Ser Leu Pro Gly Tyr Cys Pro Thr Pro Leu Val Ser Leu Pro
 20 25 30
 Glu Ile Ala Thr Glu Leu Gly Val Lys Ala Val Phe Val Lys Asp Glu
 35 40 45
 Ser Asp Arg Phe Gly Leu Pro Ser Phe Lys Val Leu Gly Ala Ser Trp
 50 55 60
 Gly Cys Tyr Arg Ser Val Ser His Leu Gly Leu Ser Pro Thr Val
 65 70 75 80
 Ala Leu Asp Asp Val Asn Gln Arg Leu Lys Glu Ser Pro Val Thr Leu
 85 90 95
 Phe Ala Ala Thr Glu Gly Asn His Gly Arg Ala Val Ala Phe Met Ala
 100 105 110
 Arg Gln Phe Gly Val Thr Ala Arg Ile Phe Val Pro Ala Ser Met Asp
 115 120 125
 Glu Glu Thr Arg Asn Arg Ile Ala Ser Glu Gly Ala Glu Val Ala Ile
 130 135 140
 Ser Asp Gly Asp Tyr Asn Leu Ala Val Gln Glu Ala Trp Ile Ala Ser
 145 150 155 160
 Gln Asn Asp Gly Gly Leu Leu Val Gln Asp Thr Ala Phe Asp Gly Tyr
 165 170 175
 Glu Glu Val Pro Ala Trp Ile Val Glu Gly Tyr Ser Thr Met Met Thr
 180 185 190
 Glu Ile Asp Glu Gln Leu Ser Gln Leu Gly Leu Gln Ser Thr Leu Thr
 195 200 205
 Val Thr Pro Val Gly Val Gly Ser Leu Gly His Ala Val Val Arg His
 210 215 220
 Cys Lys Ser Arg Thr Thr Pro Ile Ala Val Val Ala Val Glu Pro Asp
 225 230 235 240
 Ser Gly Pro Cys Leu Ile Ser Ser Leu Glu Ala Gly Thr Met Val Ser
 245 250 255
 Val Thr Ser Ser Glu Thr Ile Met Asn Gly Met Asn Cys Gly Thr Val
 260 265 270

Ser Ala Thr Ala Trp Pro Asp Leu Gln Arg Ala Val Asp Ala Ala Val
 275 280 285
 Thr Val Ser Ser Tyr Glu Ser His Cys Ala Val Gln Tyr Leu Ala Ser
 290 295 300
 His Ser Val Arg Ala Gly Pro Cys Gly Gly Ala Ser Leu Ala Ala Ile
 305 310 315 320
 Arg Arg Leu Arg Ala Ser Gly Gln Ala Ala Ser Leu Leu His Arg Asp
 325 330 335
 Ala Val Val Val Leu Leu Cys Thr Glu Gly Ala Arg Pro Tyr Pro Ile
 340 345 350
 Pro Arg Asp Val Ala Val Glu Asp Val Val Gly Leu Thr Gln Val Leu
 355 360 365
 Thr Gln Ile Asp Ser Ser Asn Pro Thr Leu Ser Val Ala Asp Gly Val
 370 375 380
 Gly Glu Thr Glu Ile Ala Asn Tyr Leu Ala Ala Trp Leu Ala His Arg
 385 390 395 400
 Gly Ile Glu Tyr His Arg Val Glu Pro Val Ala Gly Arg Pro Ser Ile
 405 410 415
 Val Gly Val Phe Arg Gly Ser Gly Gly Gly Gln Ser Leu Met Phe Asn
 420 425 430
 Gly His Ile Asp Thr Val Ser Leu Ser Ser Tyr Glu Ser Asp Pro Leu
 435 440 445
 Ser Gly His Leu Gly Glu Lys Glu Gly Arg Gln Val Ile Phe Gly Arg
 450 455 460
 Gly Ser Leu Asp Met Lys Gly Gly Leu Ala Ala Ala Leu Ala Ala Leu
 465 470 475 480
 Ala Ala Ile Lys Ala Ser Gly Arg Thr Leu Arg Gly Asp Val Ile Val
 485 490 495
 Ala Ala Val Ser Asp Glu Glu Asp Ala Ser Gln Gly Thr Arg Asp Ile
 500 505 510
 Ile Ala Ala Gly Trp Arg Ala Asp Ala Ala Val Val Pro Glu Pro Thr
 515 520 525
 Met Gly Ala Ile Ala Ile Ala His Lys Gly Phe Val Trp Val Glu Val
 530 535 540
 Asp Ile Leu Gly Val Ala Ala His Gly Ser Asp Ser Gln Ala Gly Val
 545 550 555 560
 Asp Ala Ile Leu Gln Ala Gly Trp Phe Leu Gln Ser Leu Glu Gln Tyr
 565 570 575
 Gln Lys Arg Leu Pro Ile Asp Asp Thr Leu Gly Gln Ala Thr Leu His
 580 585 590
 Cys Gly Leu Ile Lys Gly Gly Gln Glu Pro Ser Ser Tyr Pro Gln Arg
 595 600 605
 Cys Thr Ile Thr Ile Glu Phe Arg Thr Ile Pro Ala Gln Ser Asn Glu
 610 615 620
 Ser Ile Leu Glu Asp Val Asn Ala Leu Leu Ser Gly Ile Ala Lys Glu
 625 630 635 640
 Lys Pro Arg Phe Arg Tyr Ala Pro Pro Arg Leu Thr Ile Ser Arg Pro
 645 650 655
 Thr Gln Lys Leu Ser Ala Asp His Pro Leu Val Gln Thr Ala Val Ala
 660 665 670
 Cys Ala Thr Glu Val Leu Val Asp Gly Pro Gly Val Ile Ser Val Pro
 675 680 685
 Phe Trp Cys Asp Ala Ala Leu Leu Ser Glu Ala Gly Val Pro Ala Ile
 690 695 700
 Val Tyr Gly Pro Ser Gly Ala Gly Leu His Ser Lys Glu Glu Trp Val
 705 710 715 720

11357

Glu Val Asp Ser Leu Gln Glu Met Ser Arg Val Phe Glu Lys Leu Ile
 725 730 735
 Gln Glu Leu Cys Ala
 740

<210> 30086
 <211> 118
 <212> PRT
 <213> A.fumigatus

<400> 30086
 Ile Arg Asp Pro Arg Gly Glu Asp Glu Phe Gly Thr Lys Gly Asp Ala
 1 5 10 15
 Asn Thr Phe Ile Gly Thr Ser Tyr Tyr Met Ala Pro Glu Arg Ile Thr
 20 25 30
 Gly Gln Ser Tyr Thr Ile Thr Ser Asp Val Trp Ser Leu Gly Val Thr
 35 40 45
 Leu Leu Glu Val Ala Gln His Arg Phe Pro Phe Pro Ala Asp Gly Thr
 50 55 60
 Glu Met Gln Pro Arg Ala Gly Leu Ile Asp Leu Leu Thr Tyr Ile Val
 65 70 75 80
 Arg Gln Pro Ile Pro Lys Leu Lys Asp Glu Pro Glu Asn Arg Ile Arg
 85 90 95
 Trp Ser Asp Asn Phe Lys Tyr Phe Ile Glu Cys Trp Tyr Val Tyr Ser
 100 105 110
 Ala Met Asp Glu Trp Gly
 115

<210> 30087
 <211> 96
 <212> PRT
 <213> A.fumigatus

<400> 30087
 Pro Cys Asp Cys Leu Glu Cys Tyr Arg Pro Arg Val Leu Arg Phe Tyr
 1 5 10 15
 His Val Ile Cys Arg Gln Gly Ser Ala Gly Ala Trp Cys Gln His Pro
 20 25 30
 Ser Ala Ser Gln Val Cys Ile Cys Arg Arg Cys Ala Asp Gly Lys Ser
 35 40 45
 Pro Ile Leu Trp Ser Gln Phe Met Lys Leu His Gln Ala Pro Thr Glu
 50 55 60
 Ser Tyr Ala Asp Ile Gly Gly Pro Glu Ser Gln Ile Gln Glu Ile Glu
 65 70 75 80
 Glu Ser Val Glu Leu Ala Leu Ala Pro Pro Arg Asn Cys Met Lys Arg
 85 90 95

<210> 30088
 <211> 179
 <212> PRT
 <213> A.fumigatus

<400> 30088
 Gln Ser Leu Cys Leu Gln Lys Glu Lys Pro Lys Tyr Glu Pro Pro Pro
 1 5 10 15
 Pro Pro Thr Thr Arg Ile Gly Arg Lys Lys Arg Lys Ala Ala Gly Pro

20 25 30
 Ser Ala Ala Ser Lys Leu Pro Asp Ile Phe Pro Thr Ser Arg Cys Lys
 35 40 45
 Leu Arg Tyr Leu Arg Met Gln Arg Val His Asp His Leu Leu Leu Glu
 50 55 60
 Glu Glu Tyr Val Glu Asn Met Glu Arg Leu Arg Lys Ala Lys Ala Gln
 65 70 75 80
 Ala Thr Leu Asp Ser Val Ser Arg Gly Asp Leu Asp Ile Met Asp Arg
 85 90 95
 Asn Ala Asp Glu Arg Ser Arg Val Asp Asp Met Arg Gly Ser Pro Met
 100 105 110
 Gly Val Gly Asn Leu Glu Glu Leu Ile Asp Asp Asp His Ala Ile Val
 115 120 125
 Ser Ser Ala Thr Gly Pro Glu Tyr Tyr Val Ser Ile Met Ser Phe Val
 130 135 140
 Asp Lys Asp Leu Leu Glu Pro Gly Ala Ser Ile Leu Leu His His Lys
 145 150 155 160
 Ser Val Ser Val Val Gly Val Leu Thr Gly Arg Val Arg Ser Ser Gly
 165 170 175
 Leu Ser Ser

<210> 30089
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 30089
 Phe Glu Cys Trp Ser Pro Arg Pro Gly Gln Met Ala Thr Thr Ala Tyr
 1 5 10 15
 Leu Arg Ala Leu Arg Pro Ser Leu Gln Arg Lys Leu His Ser Leu Thr
 20 25 30
 Phe Thr Pro Ser Ser Thr Leu Leu Thr Ser Thr Ala Leu Phe Asn Asp
 35 40 45
 Ser Ser Gly Ser Lys Val Ala Val Val Arg Gly Leu Ile Leu Leu Pro
 50 55 60
 Leu Ser Asn Ser
 65

<210> 30090
 <211> 79
 <212> PRT
 <213> A.fumigatus

<400> 30090
 Tyr Ile Phe Ser Ala Glu Leu Ser Cys Glu Cys Ser Asn Tyr Ser Ser
 1 5 10 15
 Ser Ala Ser Ser Ser Pro His Glu Ser Leu Leu Glu Pro Gln Ser Ser
 20 25 30
 Lys Asp Ser Glu Ala Gln Tyr Ala Phe Ile Tyr Gln Tyr Gln Thr Ser
 35 40 45
 Met Leu Thr Phe Ser Leu Ala Leu Pro Val Pro Pro Ser Pro Arg Ser
 50 55 60
 Ser Ser Arg Phe Glu Leu Ile Lys Lys Ile Thr Asp His Ser Cys
 65 70 75

<210> 30091
 <211> 61
 <212> PRT
 <213> A.fumigatus

<400> 30091
 Asn His Leu Ile Asp His Cys Asn Met Leu Ser Ala Arg Gly Glu Thr
 1 5 10 15
 Tyr Ala Lys Ala Gly Leu Ala Asn Ser Tyr Leu Glu Ala Leu Lys Thr
 20 25 30
 Pro Tyr Asn Lys Asp Asn Lys Gln Gly Val Val Ser Phe Arg Asn Ala
 35 40 45
 Glu Asn Val Leu Ser His Ile Leu Leu Leu Val Gly Ser
 50 55 60

<210> 30092
 <211> 185
 <212> PRT
 <213> A.fumigatus

<400> 30092
 Arg Lys Met Tyr Cys Gly Asn Gly Ser Leu Met Arg Val Ala Pro Ile
 1 5 10 15
 Gly Leu Val Tyr Phe Arg Asp Met Glu Ile Ala Leu Ser Asn Ala Ala
 20 25 30
 Leu Ser Ser Asn Ala Thr His Pro Tyr Pro Arg Cys Ala Glu Cys Cys
 35 40 45
 Gln Ile Tyr Thr Arg Leu Ile Val Arg Ala Leu Asn Gly Ala Ser Lys
 50 55 60
 Glu Glu Leu Ala Glu Glu Phe Ala Arg Ile Asn Phe Thr Asp Val Lys
 65 70 75 80
 Val Lys Gln Arg Leu Asp Arg Tyr Ser Asn Leu Thr Asp Trp Glu Asn
 85 90 95
 Thr Asp Glu Glu His Ile Lys Ser Ser Gly Tyr Val Leu Ser Thr Leu
 100 105 110
 Glu Ala Ala Leu Trp Ala Phe Phe Thr Thr Ser Thr Phe Lys Ser Gly
 115 120 125
 Ala Val Lys Val Val Asn Leu Gly Asp Asp Ala Asp Thr Val Gly Ala
 130 135 140
 Val Tyr Gly Gly Leu Ala Arg Ser Tyr Tyr Gly Leu Glu Lys Ile Pro
 145 150 155 160
 Ala Asp Trp Ile Ala Ser Leu Gln Lys Lys Asn Ile Val Glu Glu Ile
 165 170 175
 Ala Ser Gly Leu Cys Ser Leu Thr Glu
 180 185

<210> 30093
 <211> 159
 <212> PRT
 <213> A.fumigatus

<400> 30093
 Leu Thr Ala Leu Asp Ala Val Pro Lys Lys Arg Gly Pro Lys Thr Asp
 1 5 10 15
 Val Leu Glu Ala Leu Leu Lys Arg Val Asp Gly Leu Glu Lys Arg Leu
 20 25 30

Gln Asp Glu Asn Lys Asn Pro Met Ser Pro Thr Ser Pro Val Glu Pro
 35 40 45
 His Lys Glu Pro Pro Asp Pro Ser Ala Ser Met His Ala Leu Ala Arg
 50 55 60
 Pro Ser Thr Ser Ser Thr Ser Thr Thr Ser Val Pro Pro Ser Glu Pro
 65 70 75 80
 Phe Pro Arg Pro Phe Ser Phe Pro Ser Gln Pro Ser Pro Pro Val His
 85 90 95
 Tyr Phe Ala Leu Pro Asp Ser Val Leu Asp Ala Tyr Phe Ala Arg Ile
 100 105 110
 His Gly Lys Pro Tyr Phe Ile Leu Asp Glu Ser Val Thr Arg Gln Ser
 115 120 125
 His Gln Met Gly Gln Leu Pro Val Ala Leu Ser Met Ala Ile Tyr Ala
 130 135 140
 Ile Thr Leu Arg Phe Val Pro Pro Pro Pro Cys Leu Ser Phe Ile
 145 150 155

<210> 30094

<211> 79

<212> PRT

<213> A.fumigatus

<400> 30094

Phe Ser Thr Asp His Cys Ser Tyr Thr Ser Ser Pro Asn Pro Ser Glu
 1 5 10 15
 Gln Ser Leu Arg Met Ala Leu Asp Tyr Ala Leu Gln Ala Arg Arg Met
 20 25 30
 Val Asp Val Asp Gln Pro Thr Met Asp Gly Leu Gln Val Leu Leu Leu
 35 40 45
 Leu Ser Gln Thr Phe Leu Ala His Gly Leu Gly Lys Lys Ala Tyr Met
 50 55 60
 Thr Phe Ser Met Gln Ser Ile Ala Phe Trp Lys Asp Lys Thr Gly
 65 70 75

<210> 30095

<211> 177

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (166)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30095

Phe Asp Cys Ile Ala Asn Cys Ala Ser Met Ala Ile Ala Leu Asp Leu
 1 5 10 15
 Tyr Arg Glu Pro Pro Lys Ser Leu Pro Ala Gly Glu Arg Glu Ile Arg
 20 25 30
 Arg Arg Leu Phe Trp Ala Val Tyr Ile Met Asp Arg Phe Leu Thr Cys
 35 40 45
 Gly Ser Lys Arg Pro Gly Leu Ile Ala Asp His Ser Ile Val Leu Arg
 50 55 60
 Leu Pro Ala Trp Ser Pro His Thr Ala Gly Leu Asn Val Glu Gly Glu
 65 70 75 80
 Leu Phe Asn Asn Val Gly Pro Asn Ile Gln Tyr Ser Ser Asp Pro Arg

11361

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      85              90              95
Arg Lys Pro Ala Ala Thr Ala Leu Leu Ile Asp Ile Thr Arg Ile Leu
      100              105              110
Gly Ile Thr Asn Arg Tyr Leu Ala Ala Gly Gly Val Lys Gly Asp Ser
      115              120              125
His Phe Pro Trp His Ser Leu Ser Asn Leu Ser Lys Ile Arg Gln Glu
      130              135              140
Leu Asp Ile Trp Ala Thr Gly Thr Pro Asp Val Phe Ala Ser Val Glu
145              150              155              160
Ala Leu Phe Gly His Xaa Glu Ser Ser Ile Leu Leu Leu Ser Lys Leu
      165              170              175
Ile

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<210> 30096
 <211> 170
 <212> PRT
 <213> A.fumigatus

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<400> 30096
Tyr Leu Val His Cys Leu Ile Tyr Arg Pro Phe Leu Pro Ile Asp Leu
1      5      10      15
Val Glu Leu Arg Gly Thr Gly Gln His Gln Ser Trp Gln Ile Glu Ala
      20      25      30
Thr Asn Leu Cys Phe Ser His Ser Asn Ala Ile Ala Glu Leu Val Glu
      35      40      45
Leu Ala Arg Asn Ser Pro Leu Ile Glu Trp Pro Ala Phe Val Gly Tyr
      50      55      60
Cys Val Cys Thr Ala Gly Thr Val His Val His Gly Val His Tyr Lys
65      70      75      80
Gly Arg Glu Gly Glu Val Phe Ser Ser Ser Ala Glu Phe Leu Thr Arg
      85      90      95
Glu Met His Gln Leu Thr Trp Leu Gly Ser Tyr Trp Ala Gly Val Gln
      100     105     110
His Gln Arg Glu Met Leu Gln Thr Ile Tyr Thr Cys His Ala Glu Leu
      115     120     125
Val Arg Thr Leu Ala Thr Ser Pro Met Arg Phe Ser Pro Val Phe His
      130     135     140
Leu Glu Asp Phe Leu Asp Arg Tyr Pro Gly Leu Thr Ala Asp Gly Ser
145     150     155     160
His Val Arg Leu Val Asp Met Asp Asp Thr
      165     170

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<210> 30097
 <211> 165
 <212> PRT
 <213> A.fumigatus

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<400> 30097
Leu Gly Ser Pro Gln Leu Asp Pro Tyr Tyr Arg Ser Met Pro Ala Tyr
1      5      10      15
Ser Met Tyr His Asn Gln Pro Leu Arg Ala Pro Val Thr Leu Pro Ser
      20      25      30
Asn His Asn Pro Ser Pro Arg Arg Asp Ser His Ser Thr Ala Ser Thr
      35      40      45
Ala Thr Lys Pro Pro Gly Val Ser Ser Pro Ser Leu Thr Phe Pro Pro

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50 55 60
 Ser Gln His Pro Gln Pro Ser Pro Gln Gln Leu His Ser Thr Phe Pro
 65 70 75 80
 Leu Gly Asn Ala Asp Leu Thr His Pro Ser Ser Ser Asp Ala Ser Asn
 85 90 95
 His His Asn His Asn His Asn His Ser Phe Ser Pro Pro Pro Pro Ser
 100 105 110
 Ala Met Phe Gly Phe Ser Pro Pro Ala Phe Leu Thr Glu Ser Leu Pro
 115 120 125
 Val Ala Pro Thr Pro Pro Ser His Pro Gln Tyr Ala Thr Phe Pro Phe
 130 135 140
 Asp Ser Ser Ser Ser Asn Asn Asn Asn Asn Asn Ser Asn His Gln
 145 150 155 160
 Thr His Thr Gly Gln
 165

<210> 30098

<211> 69

<212> PRT

<213> A.fumigatus

<400> 30098

Ser Leu Cys Cys Ser Leu Leu Ser Gly Val Gly Leu Val Ala Ser Cys
 1 5 10 15
 Gly Ser Glu Ser Gly Asp Asn Arg Ser Gly Leu Phe Gly Ser Lys Val
 20 25 30
 Gly Ser Arg Val Val Ala Ile Ser Ser Phe Phe Arg Ala Ile Leu His
 35 40 45
 Ala Ile Trp Asp Asp Gln Thr Asn Pro Ser Ala Gly Val Leu Cys Val
 50 55 60
 Asp Cys Pro Glu Lys
 65

<210> 30099

<211> 456

<212> PRT

<213> A.fumigatus

<400> 30099

Leu Thr Gly Arg Arg Thr Ser Cys Leu Leu Val Leu Thr Val Arg Gly
 1 5 10 15
 Cys Ser Gly Ser Gly Lys Thr Gln Phe Leu Leu Ser Leu Leu Leu Ala
 20 25 30
 Val Gln Leu Pro Glu Pro Arg Gly Leu Gly Lys Gly Ala Ile Tyr Ile
 35 40 45
 Ser Thr Glu Ala Pro Leu Ala Thr Ser Arg Leu Ser Gln Leu Leu Glu
 50 55 60
 Tyr His Pro Tyr Leu Ser Asp Leu Pro Lys Asp Arg Ala Pro Thr Leu
 65 70 75 80
 Asp Asn Ile Leu Ser Ile Asn Ala Met Asp Leu Glu Ser Gln Asp His
 85 90 95
 Ile Leu Asn Tyr Gln Leu Pro Val Ala Ile Thr Arg Tyr Asp Val Gly
 100 105 110
 Leu Val Val Ile Asp Ser Ile Thr Ser Asn Tyr Arg Ala Glu His Thr
 115 120 125
 Ser His Asn Val Leu Gly Leu Ser Thr Arg Ser Gly Glu Leu Ala Arg


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130          135          140
Leu Gly Gln Met Leu Arg Asn Leu Ala Val Ala Lys Asn Ile Ala Ile
145          150          155          160
Val Val Ala Asn Gln Val Ser Asp Arg Phe Asp Pro Leu Glu Asp Asn
165          170          175
Ala Ala Leu Arg Arg Ala Ala Ala Tyr Gly Asn Thr Ile Gly Ser Ser
180          185          190
Ser Pro Val Ser Thr Gln Gln Gln Pro Thr Thr Pro Leu His Arg Asp
195          200          205
Ser Ala Ile Ala Ser Pro Leu Pro Ala Ala Arg Ser Arg Pro Pro Glu
210          215          220
Ser Gly Asn Ala Glu Leu Ser Pro His Ile Thr Ile Ala Pro Pro Ser
225          230          235          240
Ser Ser Pro Ala Phe Pro Ser Ser Pro Phe Leu Ala Asp Asp Asn Pro
245          250          255
Ser Glu Gln Gln Pro Gln Asp Phe Asp Gly Ser Tyr Leu Ile Gly Asn
260          265          270
Pro Val Arg Asn Glu Leu Leu Ser Leu Met His Gln Gln Arg Phe Phe
275          280          285
Thr Gly Trp Gly Asp Thr Pro Gln Ala Ala Ala Pro Pro Ser Pro Tyr
290          295          300
Tyr Phe Ser Gly Gln Ser Thr His Lys Thr Pro Ala Leu Gly Phe Val
305          310          315          320
Trp Ser Ser Gln Ile Ala Cys Arg Ile Ala Leu Lys Lys Glu Glu Ile
325          330          335
Ala Thr Thr Leu Asp Pro Thr Phe Glu Pro Lys Ser Pro Asp Leu Leu
340          345          350
Ser Pro Asp Ser Glu Pro His Glu Ala Thr Arg Pro Thr Pro Asp Ser
355          360          365
Lys Glu Gln Gln Ser Asp His Arg Val Leu Glu Thr Ser Leu Asp Val
370          375          380
Pro Pro Val Arg Gln Arg Ile Thr Pro Gln Pro Ala Pro Pro Asp Ile
385          390          395          400
Ile Pro Pro Arg Thr Leu Arg Arg Thr Met Lys Leu Val Phe Ala Pro
405          410          415
Trp Thr Ala Gly Arg Val Thr Thr Thr Val Gly Lys Asp Gly Asn Ser
420          425          430
Thr Val His Val Gln Asp Glu Val Glu Tyr Thr Ile Trp Lys Gly Gly
435          440          445
Leu Arg Ser Val Glu Ala Gln Glu
450          455

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<210> 30100

<211> 69

<212> PRT

<213> A.fumigatus

<400> 30100

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Gly Ala Thr Lys Arg Ser Pro Arg Leu Gly Asn Lys Leu Arg Cys Pro
1          5          10          15
Thr Arg Thr Ala Thr Asp His Ala Pro Thr Gly Thr Thr Gly His Asn
20          25          30
Pro Pro Ser His Ala Pro Lys Asn Tyr Glu Thr Gly Leu Cys Ala Leu
35          40          45
Asp Arg Arg Glu Gly Asp Asp Tyr Cys Arg Gln Gly Arg Glu Leu Tyr
50          55          60

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Arg Ser Arg Pro Arg
65

<210> 30101
<211> 199
<212> PRT
<213> A.fumigatus

<400> 30101
Cys Ala Lys Val Glu Ala Ile Gly Phe Ile Ser Arg Ser Ile Ser Ala
1 5 10 15
Gln His Val Ser Glu Arg Thr Pro Tyr Val Leu Gln Phe Ser Leu Ile
20 25 30
Ile Leu Ala Pro Val Leu Met Ala Ala Cys Cys Tyr Ile Leu Phe Gly
35 40 45
Arg Ile Leu Phe His Val Val Pro Pro Glu Ala Arg Thr Phe Gln Leu
50 55 60
Cys Trp Val Pro Pro Arg Phe Ile Thr Pro Ile Phe Val Gly Phe Asp
65 70 75 80
Ile Val Ala Leu Leu Leu Gln Leu Gly Gly Ala Val Leu Ile Thr Ser
85 90 95
Ala Asp Gly Thr Ser Ser Asp Ala Lys Asp Lys Phe Asp Arg Gly Arg
100 105 110
Asn Ile Ala Leu Ile Gly Val Ile Val Gln Met Val Ala Phe Gly Leu
115 120 125
Phe Ser Leu Ala Ala Phe Arg Phe Asn Phe Thr Ser Lys Arg Phe Ala
130 135 140
Lys Pro Val Asp Glu Gln Phe Glu Met Leu Ala Ser Asn Asp Ala Gly
145 150 155 160
Thr Gly Gly Arg Glu Lys Ser Ala Asn Trp Asn Ala Leu Leu Arg Val
165 170 175
Val Asn Phe Ser Thr Leu Met Ile Leu Val Ser Val Ser Lys Arg Ser
180 185 190
Ser Pro Val Leu Asn His Arg
195

<210> 30102
<211> 152
<212> PRT
<213> A.fumigatus

<400> 30102
Thr Ser Val Asn Tyr Trp Leu Lys Tyr Pro Ser Tyr His Pro Phe Gly
1 5 10 15
Gly Arg Pro Glu Asp Thr Pro Met Ile Asn Thr Gly Gly Pro Ala Leu
20 25 30
Ser Arg Asn Asp Thr Leu Pro Asn Ser Leu Glu Lys Asn Asn Pro Ser
35 40 45
Phe His Leu Val Leu Pro Ala Gly Gln Lys Ser Ala Ala Leu Cys Arg
50 55 60
Thr Ile Thr Ser Ala Met Ile Leu Asn Tyr Pro Pro Pro Thr Leu Val
65 70 75 80
Gln Tyr Gly Arg Lys Leu Pro Ser Gly Ser Ser Glu Tyr Asp Tyr Val
85 90 95
Val Asp Arg Val Thr Ala Ile Tyr Asn Phe Leu Gln Tyr Thr Pro His
100 105 110

11365

Val Arg Asp Gly Asp Phe Val Leu Ile Ala Asp Gly Tyr Asp Val Phe
 115 120 125
 Phe Gln Leu Pro Pro Glu Val Leu Ile Gln Arg Phe Gln Asn Ile Leu
 130 135 140
 Arg Glu Asn Asn Ala Lys Leu Ser
 145 150

<210> 30103
 <211> 152
 <212> PRT
 <213> A.fumigatus

<400> 30103
 Pro Ile Gly Glu Gly Ser Ser Phe Ser Arg Val Val Pro Phe Ala Thr
 1 5 10 15
 Arg Pro Leu Phe Trp Arg Asp Arg Lys Phe Lys Ser Pro Leu Glu Leu
 20 25 30
 Met Val Asn Ser Arg Arg Ser Leu Arg Phe Pro Ile Ser Ser Thr Ser
 35 40 45
 Val Ser Tyr Ile Pro Val Trp Thr Gly Gly Ile Val Gly Thr Ala Ala
 50 55 60
 Gly Ile Asn Pro Lys Ile Leu Asp Asn Leu Gln Ser Asp Thr Val Leu
 65 70 75 80
 Ser Ile Ala Ser Trp Glu His Gly Gly Tyr Asp Gln Gln Phe Glu Trp
 85 90 95
 Asp Thr Ser Pro Asp Ser Asn Gln Asp Glu Ala Glu Val Val Asp Leu
 100 105 110
 Gly Val Ile His Gly Ser Leu Ala Asp Asp Gln Pro Ser Ala Ser Val
 115 120 125
 Phe Gly His Asn Ser Asp Pro Arg Leu Ala Gln Asn Leu Leu Phe Arg
 130 135 140
 Arg Asp Gly Cys Asn Arg Ser Ser
 145 150

<210> 30104
 <211> 416
 <212> PRT
 <213> A.fumigatus

<400> 30104
 Leu Met Asp Leu Ser Leu Ala Cys Ser Asn Pro Gly Leu Ile Ser Pro
 1 5 10 15
 Glu Lys Leu Ser Ala Val Asp Ala Ala Ile Glu Gly Thr Ile Ser Gly
 20 25 30
 Thr Val Ser Pro Arg Thr Leu Pro Ser Ser Thr Asp Asp Asn Phe His
 35 40 45
 Val Asp Glu Thr Trp Pro His Phe Gln Leu Ile Asn Pro Met Ala Ala
 50 55 60
 Gly Leu Pro Val Asp Ala Pro Met Ala Leu Pro Tyr Ala Lys Asp Pro
 65 70 75 80
 Thr Ser Asn Asn Thr Val Ile Val Asp Asp Gly Gly Glu Leu Ser Asn
 85 90 95
 Gly Gln Gly Phe Pro Glu Val Gln Pro Glu Gln Tyr Leu Thr Phe Gln
 100 105 110
 Asn Leu Ser Gln Ala Phe Gln Phe Ala Gly Asp Pro Trp Ala Glu Pro
 115 120 125

11366

Pro Val Asn Leu Asp Ala Asn Thr Ser Ala Gln Ala Pro Ile Ser Val
 130 135 140
 Pro Gln Met Arg Pro Gln Val Gln Ile Gln Ile Ile Asn Gln Pro Arg
 145 150 155 160
 Ser Phe Gln Gly Ser Leu Arg Pro Leu Glu Ser Arg Trp Leu Glu Ser
 165 170 175
 Leu Glu Ser Gln Leu Pro Thr Asn Leu Thr Leu Pro Ala Ser Leu Thr
 180 185 190
 Thr Asp Cys Gln Asp His Ser Leu Pro Lys Asp Asp Arg Arg Leu Gln
 195 200 205
 Asp Ala Phe Gln Tyr Lys Ser Glu Ser Ser Ser Val Ser Gly Asp Leu
 210 215 220
 Ser Gly Val Tyr Asp Cys Ser Tyr Ser Gly Leu Ser Asp Asp Val Pro
 225 230 235 240
 Ala Phe Ala Glu Arg Gln Leu Glu Asp Asp Gly Ala Trp Lys Asp Ala
 245 250 255
 Gln Lys Lys Glu Ser Ser Ser Ala Thr Ser Arg Pro Leu Gln Gly Ala
 260 265 270
 Thr Ala Phe Val Val Ser Glu Asn Pro Gln Glu Ser Phe Phe Met Thr
 275 280 285
 Ala Pro Ser Arg Ser Arg Ala Ser Ser Thr Ala Ala Gln Arg Ala Ser
 290 295 300
 Gly Arg Pro Gln Ala Leu Ala Leu Gln Ser Val Ala Thr Val Arg Lys
 305 310 315 320
 Arg Lys Gln Arg Thr Ser Asn Val Ser Ile Asp Gln Ser Leu Pro Lys
 325 330 335
 Pro Leu Gln Ile Val Gln Glu Asp Gly Gln Gly Gly Ser Ile Ala Ser
 340 345 350
 Ala Asp Phe Val Ser Pro Pro Arg Gly Ala Arg Arg Lys Gly Pro Leu
 355 360 365
 Ser Met Val Gly Arg Ala Asn Ala Gly Leu Arg Arg Lys Asn Lys Asp
 370 375 380
 Thr Cys Val Gln Cys Arg Leu Asn Lys Arg Lys Val Gly Leu Pro Ala
 385 390 395 400
 Ser Gly Leu Phe Trp Ser Gln Tyr His Arg Lys Leu Met Ile Ala Val
 405 410 415

<210> 30105

<211> 71

<212> PRT

<213> A.fumigatus

<400> 30105

Pro His Glu Cys Val Ser Cys Asn Pro Ile Ile Tyr Leu Lys Arg Cys
 1 5 10 15
 Ala Phe Ala His Ser Gln Gly Asn Ala Cys Thr Asn Thr Gly Val His
 20 25 30
 Pro Ala Thr Glu Phe Met Glu Val Tyr Asp Ser Gln Asp Phe Glu Lys
 35 40 45
 Thr Thr Thr Ala Tyr Gly Leu Gln Thr Arg Leu Ile Ile Ile Cys His
 50 55 60
 Val Ile Thr Trp Ser Met Ile
 65 70

<210> 30106

<211> 61

<212> PRT

<213> A.fumigatus

<400> 30106

```

Thr Tyr Ala Leu Ala Asn Cys His Pro Phe Cys Ile Ser Leu Gly Ile
1           5           10           15
Cys Lys Thr Ser Glu Ser Ala Gln Gly Ser Asn Val Val Ala Gln Asn
          20           25           30
Asn Leu Pro Thr Glu Tyr Lys Ser Asp Ala Asn Tyr Ala Ser Tyr Lys
          35           40           45
Asn Gly Gly Leu Phe Cys Gln Ile Phe Asn Tyr Pro His
          50           55           60

```

<210> 30107

<211> 116

<212> PRT

<213> A.fumigatus

<400> 30107

```

Ser Leu Gln Phe Leu Leu Lys Ser Val Ile Met Ala Ser Glu Gln Pro
1           5           10           15
Val Glu Ala Ala Pro Thr Gly Gly Ser Leu Ala Asp Arg Ile Thr Lys
          20           25           30
Pro Asp Glu Ser Asn Thr Ser Gly Thr Arg Ala Tyr His Leu Pro Ser
          35           40           45
Ala Asp Gln Thr Glu His Thr Thr Asn Leu Leu Lys Ala Glu Thr Pro
          50           55           60
Ala Pro Ile Gly Asp Gln Thr Asp Gly Ala Pro Ala Gln Leu Gly Gly
          65           70           75           80
Ser Asp Leu His Glu Pro Glu Tyr Asn Val Glu Val Lys Leu Ser Asp
          85           90           95
Leu Gln Ala Asp Pro Asn Asn Pro Leu Tyr Ser Val Lys Asn Phe Glu
          100          105          110
Asp Leu Gly Leu
          115

```

<210> 30108

<211> 174

<212> PRT

<213> A.fumigatus

<400> 30108

```

Leu Thr Ser Leu Arg Pro Asn Arg Asp Pro Arg Ile Leu Lys Gly Leu
1           5           10           15
Ser Ser Met Asn Phe Arg Lys Pro Ser Lys Ile Gln Glu Arg Ala Leu
          20           25           30
Pro Leu Leu Leu Asn Asn Pro Pro Lys Asn Leu Val Gly Gln Ser Gln
          35           40           45
Ser Gly Thr Gly Lys Thr Ala Ala Phe Val Leu Asn Ala Leu Ser Arg
          50           55           60
Val Asp Leu Ser Thr Glu Gln Met Gln Lys Thr Pro Gln Ala Leu Ile
          65           70           75           80
Leu Ala Pro Thr Arg Glu Leu Ala Arg Gln Ile Leu Gly Val Val Gln
          85           90           95
Val Met Gly Gln Phe Val Asp Gly Leu Ile Ile Gly Ala Ala Val Pro
          100          105          110

```

11368

```

Thr Asp Arg Asp Ser Arg Pro Lys Arg Leu Glu Cys Ser Ile Val Val
    115                      120                      125
Gly Thr Pro Gly Thr Val Gly Asp Met Ile Lys Arg Arg Thr Phe Ile
    130                      135                      140
Pro Asn Lys Leu Lys Val Leu Val Leu Asp Glu Ala Asp Asn Met Leu
145                      150                      155                      160
Asp Gln Gln Gly Leu Gly Asp Gln Cys Ile Arg Val Lys Ala
    165                      170

```

<210> 30109

<211> 128

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (109), (114)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30109

```

Val Ser Asn Gly Ile Gln Trp Leu Asp Glu Ile Gln Gln Phe Tyr Arg
1          5          10          15
Glu Arg Ser Ala Ile Glu Lys Glu Tyr Ala Ala Lys Leu Thr Thr Leu
    20          25          30
Cys Arg Lys Tyr Ser Asp Arg Lys Ala Lys Lys Ile Ser Ser Leu Ser
    35          40          45
Val Gly Asp Asn Pro Ala Met Thr Pro Gly Ser Leu Glu Ser Ala Ser
    50          55          60
Leu Thr Thr Trp Thr Thr Gln Leu Thr Ala Val Glu Ser His Ala Ala
65          70          75          80
Glu Arg Asp Lys Phe Ala Ser Glu Leu Val Ala Gln Val Ala Glu Pro
    85          90          95
Leu Lys Gln Ala Ala Ala Gln Tyr Glu Glu Leu Arg Xaa Cys His Val
    100          105          110
Asp Xaa His Ala Arg Leu Glu Lys Glu Arg Asp Ser Ser Tyr Ser Glu
    115          120          125

```

<210> 30110

<211> 181

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (25)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30110

```

Ile Ser Leu Leu Pro Val Leu Phe Pro Ile Phe Asp Thr Gln His Ser
1          5          10          15
Phe His Thr Met Ser Ser Glu Thr Xaa Tyr Lys Thr Gln Gln Asp Leu
    20          25          30
Arg Lys Ala Glu Ser His Ala Ser His Ala Ala Gly Gly Asn Thr Pro
    35          40          45
Ala Asn Ser Asn Val Ser Ala Met Lys Val Thr Pro Asn Leu Leu Ile
    50          55          60

```

11369

Gln Phe Gly Asp Thr Ala Ala Asn Ser Thr Asn Gln Ser Ile Val Asp
 65 70 75 80
 Glu His Thr Asp Lys Ala Lys Ala Ile Glu Glu Arg Lys Ala Asn Leu
 85 90 95
 Pro Leu Pro Asp Gln Pro Pro Val Ala Ser Asp Trp Gln Ser Ala Asp
 100 105 110
 Gln Arg Ala Val Asn Val Gly Ser Gly Gly Val Gln Gly Ser Val Ser
 115 120 125
 Gly Glu Ser Asn Thr Ala Leu Arg Asp Pro Ala Thr Ala Gly Ser Ser
 130 135 140
 Ala Arg Met Ser Gly Glu Glu Leu His Lys Glu Thr Gln Pro Thr Gly
 145 150 155 160
 Asn Val Gly Arg Gln Ala Thr Glu Gly Leu Ser Asp Ile Pro Gly Asp
 165 170 175
 Ala Lys Ala Arg Lys
 180

<210> 30111

<211> 84

<212> PRT

<213> A.fumigatus

<400> 30111

Leu Pro Leu Trp Gly Lys Tyr Gly Asp Gln Thr Leu Ser Gly Pro Arg
 1 5 10 15
 Arg Asp Gly Lys Thr Ser Gln Arg Phe Val Arg Ser Met His His Pro
 20 25 30
 Gln Trp Phe Ile Arg Pro Arg Pro Val Thr Lys Thr Asn Gly Val Ser
 35 40 45
 Asp Gly Arg Ile Gln Ala Lys Val Gln Asp Ala Ala Phe Gly Leu Ala
 50 55 60
 Ala Arg Leu Ala Gly Leu Ser Thr Lys Glu Asn Phe His Glu Gln Tyr
 65 70 75 80
 Pro His Asp Lys

<210> 30112

<211> 132

<212> PRT

<213> A.fumigatus

<400> 30112

Arg Leu Tyr Arg Thr Ala Leu Ala Leu Leu Ala Glu Leu Pro Lys Thr
 1 5 10 15
 Cys Asp Thr Ile Ala Asp Ala Phe Asn Lys Asn Ser Arg Glu Leu Lys
 20 25 30
 Ala Ala Arg Asp Glu Leu Cys Asn Ala Gln Ser Glu Leu Thr Ile Leu
 35 40 45
 Lys Gly Leu Leu Glu Ile Leu Phe Asn Leu Leu Glu Lys Met Trp Ala
 50 55 60
 Thr Val Arg Thr Tyr Gln Met Gly Lys Asp Met Lys Glu Ala Glu Val
 65 70 75 80
 Gln Gly Glu Gly Glu Pro Leu Gly Ala Ile Leu Asp Leu Ala Ile Met
 85 90 95
 Gln Leu Asp Leu Gln Ser Thr Lys Ile Asp Cys Asp Ala Leu Arg Arg
 100 105 110

11370

Glu Asn Thr Phe Leu Arg Ser Leu Leu His Gly Thr Glu Ala Ala Ala
 115 120 125
 Asp Gln Cys Glu
 130

<210> 30113
 <211> 111
 <212> PRT
 <213> A.fumigatus

<400> 30113
 Tyr Lys Gly Asp Glu Pro Ser Leu Glu Met Thr Phe Asn Phe Leu Ser
 1 5 10 15
 Val Ser Asn Asn Thr Val Trp Ser Cys Phe Pro Glu Thr Leu Thr Met
 20 25 30
 Ala Ser Val Leu Gly Leu Val Ala Ser Ala Trp Leu Leu Pro Thr Ala
 35 40 45
 Tyr Gly Ala Ser His Ser Leu Ala Pro Ser Thr Ser Ala Thr Ser Ala
 50 55 60
 Gln Ala Gln Tyr Thr Leu Pro Ser Ser Ile Asp Val Gly Ala His Leu
 65 70 75 80
 Ile Ala Asn Ile Asp Asp Pro Leu Ala Val Asp Ala Gln Ser Val Cys
 85 90 95
 Pro Gly Tyr Thr Ala Ser Asp Val His Gln Thr Ser His Gly Phe
 100 105 110

<210> 30114
 <211> 82
 <212> PRT
 <213> A.fumigatus

<400> 30114
 Val Gln Ala Asn Gly Phe Arg Ala Val Thr Tyr Ser Gly Ser Trp Gln
 1 5 10 15
 Asn Ser Gly Asn Gly Tyr Leu Ser Val Tyr Gly Trp Thr Thr Ser Pro
 20 25 30
 Leu Val Glu Phe Tyr Ile Val Glu Ser Tyr Gly Ser Tyr Asp Pro Ser
 35 40 45
 Thr Gly Thr His Pro Ser Arg His Arg Pro Ile Ala Lys Gly Pro Arg
 50 55 60
 Thr Thr Ser Thr Arg Pro Arg Gly Thr Lys Arg Arg Pro Ser Ser Ala
 65 70 75 80
 Pro Leu

<210> 30115
 <211> 111
 <212> PRT
 <213> A.fumigatus

<400> 30115
 Ser Tyr Pro Leu Thr Arg Leu Thr Asn Ile Thr Ser Ile His Asn Ser
 1 5 10 15
 His Thr Leu Leu Ile Cys Asn Met Ala Ser Phe Arg Gly Ile Ser Leu
 20 25 30
 His Met Thr Val Tyr Ile Asp Pro Ala Lys Leu Pro Thr Phe Trp Glu

11371

```

      35              40              45
Ala Phe Lys Pro Val Tyr Glu His Val Ile Ala Glu Pro Glu Cys Thr
      50              55              60
Phe Phe Glu Val Tyr Gln Asp Pro Glu Asn Pro Gly Thr Ile Thr Trp
      65              70              75              80
Val Glu Asn Trp Cys Val Val Ala Asn Met Met Lys Asn Leu Thr Asp
      85              90              95
Trp Ser Pro Trp Thr Gly Gln Asn Arg Arg Asn Gly Ser Leu Arg
      100              105              110

```

<210> 30116
 <211> 131
 <212> PRT
 <213> A.fumigatus

```

<400> 30116
Ser His Asp Tyr Leu Ser Leu Gly Ile Ala Thr Lys Asp Ile Ile Phe
1              5              10              15
Ser Ile Glu Ala Ile Lys Gln Ser Ser Asn Gln Thr Thr Ile Asn Met
      20              25              30
Val Ser Phe Ser Ser Leu Val Leu Ala Ala Ser Thr Val Ala Gly Val
      35              40              45
Leu Ala Thr Pro Gly Ser Glu Gln Tyr Val Glu Leu Ala Lys Arg Gln
      50              55              60
Leu Thr Ser Ser Gln Thr Gly Thr Asn Asn Gly Tyr Tyr Tyr Ser Phe
      65              70              75              80
Trp Thr Asp Gly Gly Gly Gln Val Thr Tyr Thr Asn Gly Asn Gly Gly
      85              90              95
Gln Tyr Gln Val Asp Trp Asn Asn Cys Gly Asn Phe Val Ala Gly Lys
      100              105              110
Gly Trp Asn Pro Gly Asn Glu Lys Tyr Ala Ser Ser Pro Cys Leu Leu
      115              120              125
Gly Ser Ser
      130

```

<210> 30117
 <211> 282
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (27)
 <223> Identity of amino acid sequences at the above locations are unknown.

```

<400> 30117
Glu Glu Ala Ile Glu Arg Glu Lys Pro Glu Val Glu Glu Arg Ser Leu
1              5              10              15
Gln Arg Glu Thr Gly Gly Gly Ala Glu Asn Xaa Arg Met Gly Ala Val
      20              25              30
Lys Glu Phe Thr Val Ser His Glu Gly Arg His Gly Cys Ser Gln Asn
      35              40              45
Ser Ser Val Phe Val Lys Leu Arg Trp Val Arg Glu Gly Arg Gly Leu
      50              55              60
Glu Leu Asp Gln His Arg Leu Met Ser Leu Phe Lys Pro Phe Gly Lys
      65              70              75              80

```

Val Glu Asn Thr Phe Met Leu Lys Asp Lys Arg Gln Arg Val Gly Asp
85 90 95
Lys Arg Glu Lys Lys Thr Val Ala Thr Gly Val Val Val Phe Ala Ser
100 105 110
Ile Val Ser Ala His Ala Ala Val Leu Asp Ser Glu Lys Lys Arg Arg
115 120 125
Gln Ser Ala Gly Gln Pro Asp Asn Asp Trp Ser Leu Ile Glu Ser Val
130 135 140
Ser Trp Ala Phe Gly Asn Gln Pro Asp Ile Val Gly Thr Glu Thr Arg
145 150 155 160
Ala Ala Ser Pro Ile Ser Thr Pro Asp Glu Ala Ser Ser Ala Gln Lys
165 170 175
Pro Pro Pro His Val Gly Pro Ser Lys Thr Ala Phe Asp Phe Ser Lys
180 185 190
Leu Lys Ser Ala Ala Pro Pro Gly Gly Ser Gly Lys Thr Pro Gly Lys
195 200 205
Ala Pro Ser Phe Ala Ser Phe Ala Ser Ala Ala Gly Ser Ser Lys Pro
210 215 220
Thr Pro Ser Asp Thr Ser Ala Asn Gly Arg Ser Thr Pro Ser Phe Gln
225 230 235 240
Glu Ile Thr Leu Met Arg Leu Lys Asn Ala Gln Arg Glu Lys Glu Arg
245 250 255
Lys Ala Leu Glu Ala Gln Leu Met Lys Glu Asp Glu Ala Ala Asp Ala
260 265 270
Ala Glu Ala Ala Ala Ala Glu Ala Arg Cys
275 280

<210> 30118

<211> 306

<212> PRT

<213> A.fumigatus

<400> 30118

Thr Ser Ile Glu Ser Gly Arg Ile Gly Gly Pro Glu Lys Arg Gly Thr
1 5 10 15
Pro Val Met Val Phe Gln Gly Lys Thr Met Leu Ser Pro Arg Trp Ala
20 25 30
Glu Asn Asn Leu Glu Ser Glu Leu Ser Ser Pro Phe Ala Pro Trp Ser
35 40 45
Ser Val Ala Glu Cys Ile Asp Thr Arg Ala Pro Gly Phe Gly Ser Arg
50 55 60
Leu Val Thr Pro Gly Glu Glu Asp Leu Arg Val His Leu Pro Asp Glu
65 70 75 80
Ala Gln Val Ala Gly Ser Gln Val Asp Leu Gly Thr Tyr Thr Val Arg
85 90 95
Arg Met Leu His Gly Ile Ala Glu Gly Gln Asp Glu Ile Ile Arg Glu
100 105 110
Ser Ala Leu Pro Leu Glu Cys Asn Met Asp Met Met Arg Gly Val Asp
115 120 125
Phe Arg Lys Gly Cys Tyr Val Gly Gln Glu Leu Thr Ile Arg Thr His
130 135 140
His Thr Gly Val Val Arg Lys Arg Ile Val Pro Val Gln Leu Tyr Ala
145 150 155 160
Asn Ser Ala Pro Gln Ser Gly Asp Thr Pro Val Tyr Asp Pro Ser Ala
165 170 175
Ala Val Ala Leu Pro Pro Ser Gly Ser Asn Ile Ser Lys Val Asp Gly

Tyr	Asp	Ile	Xaa	Arg	Pro	Cys	Gly	Lys	Xaa	Xaa	Glu	Gly	Ala	Arg	Asp
1				5					10					15	
Gly	Thr	Asn	Arg	Phe	Ser	Ile	Ser	Ser	Ser	Gly	Trp	His	Asn	Pro	Phe
			20					25					30		
Pro	Pro	His	Ser	Ala	Gly	Pro	Thr	Asn	Gln	Phe	Ala	Met	Asp	Tyr	Ser
		35				40						45			
Ser	Pro	Thr	Leu	Asn	Asp	Leu	Gly	Ile	Pro	Pro	Glu	Thr	Val	Ser	Pro
	50					55					60				
Lys	Ser	Leu	Met	Ala	Gln	Asn	Pro	Phe	Ala	Glu	Thr	Tyr	Ala	Thr	Pro
65				70						75					80
Pro	Ser	Met	Thr	Ser	Val	Gly	Gln	Pro	Leu	Met	Ala	Gly	His	Ser	Gln
				85					90					95	
Ser	Met	Phe	Ser	Ser	Ser	Met	Ala	Thr	Asn	Gly	Glu	Ser	Pro	Asn	Pro
			100					105					110		
Phe	Asn	Leu	Pro	Phe	Thr	Asn	Ser	Asp	Leu	Arg	Ser	His	His	Ala	Pro
		115					120					125			
Thr	Ser	Thr	Asp	Thr	Phe	Thr	Asp	Ser	Thr	Arg	Gln	Ala	Leu	Leu	Ala
	130					135						140			
Ser	Met	Ala	Leu	Pro	Thr	Gly	Leu	Gln	Asn	His	Arg	Lys	Tyr	Ser	Gln
145					150					155					160
Pro	Ala	Ser	Gly	Met	Thr	Pro	Cys	Arg	Asp	Leu	Phe	Ser	Arg	Ser	Ala
				165					170					175	
Thr	Phe	Ser	Gly	Thr	Gly	Gln	Leu	Pro	Ser	Thr	Gln	Asp	Met	Gln	Arg
			180					185					190		
Tyr	Ile	Ser	Ala	Tyr	Ile	Thr	Tyr	Phe	His	Pro	His	Met	Pro	Phe	Leu
		195					200					205			
His	Ile	Pro	Thr	Leu	Asn	Phe	Gln	Ala	Pro	Glu	Tyr	Thr	Asn	Asn	Leu

210	215	220
Arg Thr Pro Ser Gly His Leu Asn Leu Ser Ser Thr Gly Ile Ala Gly		
225	230	235
Gly Gly Gly Cys Leu Ile Leu Ser Met Ala Ala Ile Gly Ala Leu Tyr		240
	245	250
Glu Phe Asp Thr Ala Ala Ser Lys Asp Leu Phe Glu Ala Ala Lys Lys		255
	260	265
Met Ile Gln Leu Tyr Leu Glu Glu Arg Arg Lys Ala Asp Met Ser Ala		270
	275	280
Ala Phe Ser Arg Ser Asn Pro Ala Arg Glu Asn Ser Val His Asn Thr		285
	290	295
Pro Leu Trp Leu Val Gln Ala Met Leu Leu Asn Val Ile Tyr Gly His		300
305	310	315
Ser Ser Gly Asp Lys Thr Ser Ala Asp Ile Ala Ser Thr His Cys Ala		320
	325	330
Ala Leu Val Ser Leu Ala Arg Ala Ala Gly Leu Thr His His Ile Asp		335
	340	345
Ala Lys Asp Leu Pro Gln Asp Tyr Leu Asn Thr His Leu Ser Gly Lys		350
	355	360
Val Gly Ser Met Gly Ala Ser Ser Glu Ser Glu Asp Ser Asn Thr Ala		365
	370	375
Ser Phe Gly Pro Pro Lys Glu Arg Lys Asp Trp Leu Asp Trp Lys Ile		380
385	390	395
Val Glu Glu Arg Lys Arg Thr Val Tyr Ala Ile Phe Thr Leu Ser Cys		400
	405	410
Phe Leu Val Ser Ala Tyr Asn His Ala Pro Ala Leu Thr Asn Ser Glu		415
	420	425
Ile Arg Leu Asp Leu Pro Cys Glu Glu Asp Val Trp Ala Ala Glu Ser		430
	435	440
Pro Gln Ala Trp Lys Lys Leu Gly Gly His Leu Ser Ala Lys Lys Gly		445
	450	455
Leu Ala Phe Ser Ser Ala Leu Thr Thr Leu Leu Thr Ala Ser Gln Arg		460
465	470	475
Glu Gln Ser His Gly Gln Leu Ser Ser Pro Asp Ala Thr Asn Gly Val		480
	485	490
Ser Ala Ser Asp Pro Thr Ala Thr Asp Leu Lys Pro Ser Thr Phe Gly		495
	500	505
Cys Leu Val Leu Ile Tyr Ala Leu His Asn Tyr Ile Trp Glu Thr Arg		510
	515	520
Gln Arg His Met Gly Arg Gln Trp Thr Ala Arg Glu Thr Asp Ala Met		525
	530	535
Gln Ala His Ile Glu Pro Ala Leu Arg Ala Trp Gln Thr Ala Trp Ala		540
545	550	555
Ser Asn Pro Thr His Ser Leu Glu Arg Pro Asn Pro Phe Gly Ala Gly		560
	565	570
Pro Leu Ser Ala Asp Ser Ile Pro Leu Asp Leu Ala Tyr Ile Arg		575
	580	585
Leu Phe Val Asn Leu Gly Arg Ser Lys Glu Ala Phe Trp Gln Arg Asp		590
	595	600
Trp Ile Ala Met Ser Asp Glu Leu Ala Arg Gly Thr Glu Val Phe Pro		605
	610	615
Tyr Ser Asp Asp Ile Ser Ser Asp Val Leu Asp Pro Ser Ile Thr Gln		620
625	630	635
Val Pro Ser Glu Leu Asp His Arg Arg Asp Ser Val Ala Asp Leu Xaa		640
	645	650
Val Gly Asp Leu Thr Ile Ser Lys Thr Pro Thr Arg Glu Gln Pro Met		655

	660		665		670									
Gln	Ile	Leu	Met	Gly	Val	Tyr	Arg	Pro	Xaa	Gln	Ser	Lys	Arg	Glu
	675						680					685		

<210> 30120
 <211> 120
 <212> PRT
 <213> A.fumigatus

<400> 30120
 Leu Asp Ser Ile Ile Met Thr Leu Pro Thr Ala Asn Ile Gln Arg Asn
 1 5 10 15
 Ala Gly Cys Ser Ile Val Leu Tyr Asn Asn Thr Glu Ser Thr Thr Gln
 20 25 30
 Tyr Cys Cys Asn Ser Ile Val Asn Asn Pro Asn Gly Ser Leu Pro Phe
 35 40 45
 Cys Asp Gln Gly Leu Asn Thr Ile Glu Val Asp Ser Ala Ser Met Ile
 50 55 60
 Ala Gly Ile Ala Ala Leu Ala Asp Tyr Thr Arg Ile Asp Asp Ser Thr
 65 70 75 80
 Lys Thr Thr Ser Ser Ala Ala Ser Pro Thr Ser Pro Thr Ser Asn Thr
 85 90 95
 Pro Asp Asn Ile Asn Ser His Gly Ser Ser Ser His Glu Val Ser Ser
 100 105 110
 Trp Ser Trp Cys Gly Cys Ser Thr
 115 120

<210> 30121
 <211> 343
 <212> PRT
 <213> A.fumigatus

<400> 30121
 Ala Asp Pro Ser Ser Pro Val Val Lys Thr His Pro Ser Val Ser Ser
 1 5 10 15
 Leu Leu Thr Pro Pro Ala Ser Thr Gln Ala Gly Glu Val Thr Ala Pro
 20 25 30
 Ser Thr Ala Ala Pro Ala Thr Thr Val Ser Ala Thr Ser Asp Val Thr
 35 40 45
 Pro Ser Tyr Gly Thr Ala Tyr Trp Gln Gly His Ser Gly Tyr Gly Ser
 50 55 60
 Thr Pro Gly Pro Arg Gln Pro Trp Thr Ala Gly Ser Asn Gln Ser Tyr
 65 70 75 80
 Pro Thr Arg Asp Ser Phe Ser Pro Ser Thr Leu Asn Pro Leu Ser Arg
 85 90 95
 Asn Gln Pro Thr Ser Pro Pro Val Thr Glu Gly Met Ala Gln Pro Tyr
 100 105 110
 Asp Met His His Leu Pro Pro Phe Gln Gln Ser Leu Ser Val Pro Pro
 115 120 125
 Ser Gly Leu Ser Thr Gly Thr Ala Pro His Pro Ala Met Thr His Ala
 130 135 140
 Met Leu Ala Ser Pro Thr Gly Leu Pro Asn Pro Gly Pro Ser Pro His
 145 150 155 160
 Leu Leu Pro Ser Asn Asp Pro Tyr Gly Pro Lys Ser Gln Pro Ala Pro
 165 170 175
 Val Tyr Gly Gly Ala Gln Gln Ile Pro Ser Pro His Gln Thr Ser Phe

180 185 190
 Pro Pro Tyr Gly Gln Pro Gly Leu Gly Ile His Pro Pro Gly Arg Val
 195 200 205
 Ser Ser Thr Pro Thr Leu Ser Ala Thr Gly Pro Pro Pro His Leu Asn
 210 215 220
 Tyr Ser Arg Gln Pro Trp Pro Ser Tyr Ser Leu Pro Ala Met Asn Gly
 225 230 235 240
 Pro Val Met Thr Asn Ile His Ser Pro Asn Ser Gln Met Ser Leu Leu
 245 250 255
 Gly Ser Met Gln Pro Gly Ile Leu Pro Gly Phe Asn Ser Gly His Val
 260 265 270
 Ala Ser Met Gln Gln Met Tyr Gly Gly His Pro Pro His Pro Ile His
 275 280 285
 Gln Pro Gly Pro Thr Asn Asp Arg Pro Phe Lys Cys Asp Gln Cys Pro
 290 295 300
 Gln Ser Phe Asn Arg Asn His Asp Leu Lys Arg His Lys Arg Ile His
 305 310 315 320
 Leu Ser Val Lys Pro Phe Pro Cys Thr His Cys Asp Lys Ser Phe Ser
 325 330 335
 Arg Lys Asp Ala Leu Lys Val
 340

<210> 30122
 <211> 117
 <212> PRT
 <213> A.fumigatus

<400> 30122
 Leu Ser Lys Pro Lys Val His Pro Ile Asn Thr Thr Val Phe Asp Trp
 1 5 10 15
 Trp His Phe Asp Ala Val Ser Ala Ser Asn Pro Asn Ala Ser Gly Val
 20 25 30
 Ile Thr Leu Phe Thr Asn Thr Pro Thr Ala Phe Pro Phe Leu Pro Gly
 35 40 45
 Lys Ser Lys Ser Lys Ser Asn Thr Asp Ser Val Leu Ala Gly Leu Pro
 50 55 60
 Leu Asp Leu Ile Ser Lys Trp Asp Arg Asp His Leu Arg Thr Leu Ser
 65 70 75 80
 Arg Tyr Ile Pro Ser Asp Ser Arg Arg Ser Pro Arg Arg Tyr Pro Arg
 85 90 95
 Asp Leu Ala Arg Glu Arg Arg Phe Leu Cys Trp Ile Arg Ala Arg Gly
 100 105 110
 Val Ser Gly Tyr Asp
 115

<210> 30123
 <211> 118
 <212> PRT
 <213> A.fumigatus

<400> 30123
 Met Arg Gln Ser Pro Thr Leu Ala Ile Ser Ala Met Leu Pro Thr Leu
 1 5 10 15
 Arg Ala Val Cys Leu Gln Leu Leu Val Pro Val Tyr Leu Met Arg Glu
 20 25 30
 Ala Arg Gln Phe Ser Ser Ala Thr Leu Tyr Val Val Lys Thr Gly Lys

```

      35              40              45
Arg His Met Arg Val Ile Asp Met Ser Leu Gln Glu Ser His Asn Ile
  50              55              60
Asp Thr Thr Cys Gly Asn Leu Ile Glu Pro Ala Lys Gln Ile Ser Asp
  65              70              75              80
Ala Cys Arg Leu Gly Asn Arg Tyr Thr Tyr Gly Tyr Val Ser Arg Thr
      85              90              95
Ile Val Asp Gly Ser Gln Ser Tyr Pro Tyr Leu Val Ala Ile Gly Asp
      100              105              110
Asp Tyr Ala Phe Glu Pro
      115

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<210> 30124
 <211> 119
 <212> PRT
 <213> A.fumigatus

```

<400> 30124
Phe Glu Gln Leu Arg Met Pro Leu Asp Thr Ser Thr Thr Tyr Pro Leu
  1              5              10              15
Thr Lys Leu Arg Leu Asp Gly Arg Arg Trp Asn Glu Leu Arg Leu Leu
      20              25              30
Gln Ala Gln Ile Ser Thr Asn Pro Ala Ser Ser Gly Ser Ser Phe Leu
      35              40              45
Ser Met Gly Asn Thr Ser Ile Met Cys Ser Val His Gly Pro Ala Glu
      50              55              60
Gly Lys Arg Gly Asp Ala Thr Gly Gly Ala Ala Gly Ser Ala Gly Ala
  65              70              75              80
Val Val Glu Val Asp Val Asn Ile Ala Gly Phe Ala Gly Val Asp Arg
      85              90              95
Arg Arg Arg Ala Gly Gly Ser Asp Arg Tyr Ala Ala Leu Leu Arg
      100              105              110
Phe Val Ser Leu Thr Thr Phe
      115

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<210> 30125
 <211> 280
 <212> PRT
 <213> A.fumigatus

```

<400> 30125
Leu Leu Ala Asn Leu Arg Asn Leu Cys Leu Asp Arg Asp Arg Glu Phe
  1              5              10              15
Lys Ser Asp Pro Glu Pro Pro Leu Ser Thr Ser Asp His Glu Arg Ser
      20              25              30
Lys Ile Arg Gln Leu Pro Ser Pro Ser Asn Arg Asp Thr Ser Val Val
      35              40              45
His Leu Ala Asp Thr Glu Ser Gly Asp Asp Ser Phe Asn Asp Gly Glu
      50              55              60
Ala Ala Tyr Lys Gln Phe Lys Glu Arg Arg Ala Leu Lys Arg Lys Arg
  65              70              75              80
Ser Ser Ala Asn Leu Arg Lys Ser Lys Lys Thr Lys Val Ala Asn Pro
      85              90              95
Asp Ser Phe Val Gly Lys Arg Pro Lys Lys Glu Asn Glu Gln Ser Thr
      100              105              110
Arg Thr Arg Pro Ile Leu Arg Thr Tyr Gly Glu Glu Leu Pro Ser Asp

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      115              120              125
Asp Glu Leu Met Glu Tyr Thr Leu Pro Asp Tyr Leu Gln Lys Arg Arg
 130              135              140
Thr Gln Phe Asp Arg Arg Met Asp His Leu Lys Gln Ser Gly Leu Lys
145              150              155              160
Leu Pro Pro Asp Phe Asp Asp Val Glu Phe Ser Asp Asp Glu Arg Leu
      165              170              175
Glu Phe Leu Lys Glu Lys Pro Ala Phe Arg Asn Ile Glu Pro Cys Gly
      180              185              190
Lys Tyr Glu Asp Ile Thr Leu Pro Tyr Ser Leu Gly Leu Ile Pro Ala
      195              200              205
Pro Ile Ala Gln Trp Leu Arg Pro Tyr Gln Val Glu Gly Ala Ala Phe
      210              215              220
Leu His Glu Leu Phe Val Tyr Gln Lys Gly Gly Ile Leu Gly Asp Asp
225              230              235              240
Met Gly Leu Gly Lys Thr Val Gln Val Ile Thr Phe Leu Thr Ala Ala
      245              250              255
Tyr Gly Lys Thr Gly Asp Glu Arg Asp Ala Lys Arg Met Arg Lys Met
      260              265              270
Arg Arg Ser Gly Arg Asp Gly Trp
      275              280

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<210> 30126
 <211> 82
 <212> PRT
 <213> A.fumigatus

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<400> 30126
Asn Ser Val Val Ser Leu Arg Leu Arg Ile Glu Val Val Val Val Val
1      5      10      15
Thr Tyr Val Ile Val Leu Ile Ile Tyr Ser Tyr Leu Val Ile Ile Cys
      20      25      30
Tyr Asn Thr Ser Asn Phe Ile Leu Ser Ser Leu Ile Tyr Tyr Phe Asn
      35      40      45
Ile Ile Thr Ser Leu Thr Phe Thr Tyr Ile Ala Tyr Leu Tyr Phe Tyr
      50      55      60
Leu Ile Phe Ile Thr Ser Ser Leu Tyr Lys Glu Leu Leu Leu Tyr Ile
65      70      75      80
Ile Ser

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<210> 30127
 <211> 63
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (41)
 <223> Identity of amino acid sequences at the above locations are unknown.

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<400> 30127
Ser Thr Tyr Arg Leu Ile Ile Leu Pro Phe Tyr Ile Lys Val Ser Phe
1      5      10      15
Ser Leu Ile Gly Ile Ala Phe Ser Arg Phe Tyr Tyr Pro Leu Ala Phe
      20      25      30

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11379

Phe Ile Lys Tyr Leu Ala Phe Tyr Xaa Leu Ser Lys Ser Tyr Tyr Tyr
 35 40 45
 Ser Ser Phe Thr Phe Ser Ile Ile Leu Leu Asp Leu Val Ile Lys
 50 55 60

<210> 30128
 <211> 67
 <212> PRT
 <213> A.fumigatus

<400> 30128
 Leu Val Ser Cys Asp Val Arg Gln Ile Tyr Phe Tyr Leu Gln Ala Pro
 1 5 10 15
 Leu Leu Arg Pro Pro Cys Gln His Ser Tyr Gln Gly Gly Val Ala Asp
 20 25 30
 Met Ile Asn Lys Ile Pro Asn Gln Tyr Thr Thr Asn Asp Thr Asp Ala
 35 40 45
 Tyr Thr Asp Gly Phe Asp Gly Asn Ala Gln Asn Thr Val Leu Phe Ile
 50 55 60
 Met Asp Arg
 65

<210> 30129
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 30129
 Glu Glu Asn Leu His Leu Leu Ala Cys Ala Pro Val Leu Ser Gln Ile
 1 5 10 15
 Val Ser Ala Arg Gly Arg Ser Val Val Leu Thr Ile Ser Leu Thr Ser
 20 25 30
 Gly Thr Val Tyr Leu Arg Arg Arg Thr Glu Leu Thr Leu Asp Gln Gly
 35 40 45
 Asp Cys Ala Asp Gly Ser His Ser Thr Arg Asn Thr Ser Arg
 50 55 60

<210> 30130
 <211> 72
 <212> PRT
 <213> A.fumigatus

<400> 30130
 Arg Gln Pro Phe Phe Trp Glu Arg Asn Leu Lys Val Ile Cys Gly Val
 1 5 10 15
 Met Thr Leu Ile Phe Ile Gly Arg Ala Thr Tyr Gly Ala Gly Pro Ser
 20 25 30
 Gln Val Arg Phe Thr Thr Gly Val Glu Pro Ser Arg Gly Ser Ile Arg
 35 40 45
 Leu Val Thr Met Thr Gly Lys Tyr Ser Leu Ala Trp Ile Glu Leu Asn
 50 55 60
 Arg Val Ser Asp His Glu Ser Ser
 65 70

<210> 30131
 <211> 245

<212> PRT

<213> A.fumigatus

<400> 30131

```

Ser Ala Ser His Gly Val Leu Gln Trp Phe Val Pro Cys Pro Tyr Asp
1          5          10          15
Gly Ile Thr Leu Asn Met Gln Ala Asn Ser Phe Gln Val Leu Val Trp
          20          25          30
Thr Gly Leu Ala Gly Gly Asp Gly Glu Tyr Cys Ala Ile Leu Val Ala
          35          40          45
Ile Asn Ser Ile Leu Gln Met Val Leu Phe Ala Pro Leu Ala Ile Phe
          50          55          60
Phe Ile Arg Val Ile Gly Asp Gly Asp Asp Gly Leu Thr Ile Glu Tyr
          65          70          75          80
Ser Leu Ala Ala Lys Ser Val Gly Val Phe Leu Gly Ile Pro Leu Gly
          85          90          95
Ala Ala Ile Val Thr Arg Phe Gly Leu Arg Phe Leu Ile Ser Asp Glu
          100          105          110
Trp Tyr Asn Arg Thr Phe Val Lys Leu Ile Ser Pro Leu Ser Leu Ile
          115          120          125
Gly Leu Leu Phe Thr Ile Leu Val Leu Phe Ala Ser Gln Gly Arg Gln
          130          135          140
Val Val His Gln Ile Val Ser Val Val Arg Val Ala Ala Pro Leu Ile
          145          150          155          160
Val Tyr Phe Ala Val Ile Phe Leu Ile Thr Leu Leu Val Thr Arg Arg
          165          170          175
Leu Gly Phe Gly Tyr Lys Leu Ser Cys Thr Gln Ser Phe Thr Ala Ala
          180          185          190
Ser Asn Asn Phe Glu Leu Ala Ile Ala Val Ala Ile Ala Thr Phe Gly
          195          200          205
Val Asp Ser Asp Gln Ala Leu Ala Ala Thr Val Gly Pro Leu Val Glu
          210          215          220
Val Pro Val Leu Leu Ala Leu Val Tyr Val Val Arg Trp Phe Ala Arg
          225          230          235          240
Arg Gln Gln Trp Lys
          245

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<210> 30132

<211> 60

<212> PRT

<213> A.fumigatus

<400> 30132

```

Trp Leu Thr His Ser Ile Ala Ile Gly Leu Leu Val Met Met Tyr Pro
1          5          10          15
Ile Leu Cys Lys Val Arg Phe Glu Thr Leu His Arg Ser Phe Arg Glu
          20          25          30
Lys Ala Leu Trp Ile Gln Val Ala Phe Ser Leu Val Val Asn Trp Ile
          35          40          45
Ile Ala Pro Leu Phe Met Val Gly Arg Arg Leu Arg
          50          55          60

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<210> 30133

<211> 62

<212> PRT

<213> A.fumigatus

<400> 30133

Arg Tyr Arg Pro Leu Phe Ser Phe Phe Ile Lys Ser Thr Ser Thr Ala
 1 5 10 15
 Ala Gly Leu Asp Asn Ser Leu Ile Tyr Pro Phe Leu Ser Ile Leu Ser
 20 25 30
 Arg Tyr Leu Cys Arg Ala Ser Ser Ser Ser Tyr Asn Ile Val Asn Arg
 35 40 45
 Gly Leu Tyr Ser Asn Asn Phe Leu Leu Ser Ser Tyr Ile Leu
 50 55 60

<210> 30134

<211> 77

<212> PRT

<213> A.fumigatus

<400> 30134

Leu Val Glu Val Ile Lys Ser Pro Pro Asn Ile Tyr Ile Ile Arg Arg
 1 5 10 15
 Ile Met Leu Val Ser Lys Asp Tyr Thr Phe Pro Trp Arg Ser Ser Val
 20 25 30
 Asn Cys Ser Ile Ser Val Lys Phe His Cys Ala Val Asp Ala Ala Ala
 35 40 45
 Gly Arg Gln Asp Gln Pro Ser Cys Lys Asn Met Phe Ile Ser Met Thr
 50 55 60
 Ala Leu Ile Leu Thr Leu Thr Thr Thr Arg Val Trp His
 65 70 75

<210> 30135

<211> 104

<212> PRT

<213> A.fumigatus

<400> 30135

Ser Ile Asp Glu Trp Thr Pro Gln Ser Arg Leu Gln Pro Ser Leu Gln
 1 5 10 15
 Asp Phe Ser Pro Cys Ser Phe Asn Val Ser Phe Ser Arg Ile Leu Glu
 20 25 30
 Lys Val Leu Ile Ser Ser Ile Thr Lys Gly Gly Gln Glu Ile Thr Leu
 35 40 45
 Ser Val Val Thr Gln Ile Pro Thr Gly Ser Asp Gln Ser Pro Ser Leu
 50 55 60
 Ser Ser Lys Ala Gln Ile Phe Lys Ser Ala Val Lys Ala Ala Lys His
 65 70 75 80
 Leu Val Pro Ser Gly Ile Arg Glu Ala Cys Gln Arg Phe Lys Gln Leu
 85 90 95
 Thr Gln Phe Phe Pro Ser Met Ser
 100

<210> 30136

<211> 270

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (1)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30136

```

Xaa Ser Gly Arg Arg Thr Val Cys Leu Pro Val Ser Tyr Gln Ser Ser
1      5      10      15
Lys Tyr Pro Tyr Met Ala Ala Thr Pro Phe Leu Gly Gln Ile Leu Lys
      20      25      30
Gly Arg Arg Gly Leu Tyr Pro Leu Thr Lys Gln Leu Gln Asp Cys Val
      35      40      45
Trp Leu Ala Met Leu Ser Leu Phe Gly Ile Leu Ser Leu Ser Ile Leu
      50      55      60
Thr Ile His Ser Tyr Glu His Gln Glu Thr Val Ile Ala Lys Ser Val
65      70      75      80
Arg His Phe Arg Leu Gln Asn Glu Arg Asp Ile Leu Leu Arg Phe Gln
      85      90      95
Asp Arg Thr Pro Cys Ile Arg Pro Leu Ile Glu Glu Leu Gly Asp Ser
      100     105     110
Thr Val Pro Pro Thr Leu Ile Leu Lys His Leu Asp Asn Asp Ala Leu
      115     120     125
Arg Ala Ser Asn Lys Gln Arg Leu Thr Arg Leu Glu Leu Lys Tyr Val
      130     135     140
Ala Lys Arg Val Leu Glu Ala Leu Ser Val Leu His Asp Glu Gly Phe
145     150     155     160
Val His Thr Arg Met Leu Arg Leu Phe Arg Phe Ser Thr Leu Arg Val
      165     170     175
Leu Leu Met Gly Arg Val Ile Asp Ile Lys Pro Ser Asn Val Leu Val
      180     185     190
Asn Tyr Gly His Gly Asp Val Arg Phe Thr Asp Val Gln Leu Ala Asp
      195     200     205
Phe Gly Ser Thr Val His Arg Asp Ser Pro Tyr Ala Gln His Gly Asp
      210     215     220
Pro Ile Gly Thr Pro Ile Phe Arg Ser Pro Glu Ala His Leu Gln Met
225     230     235     240
Arg Trp Gly Thr Ala Thr Asp Ile Trp Ser Phe Gly Ala Met Ala Ser
      245     250     255
Pro Asn Leu Thr Pro Glu Met Ser Asp Leu Asn His Asp Ile
      260     265     270

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<210> 30137

<211> 118

<212> PRT

<213> A.fumigatus

<400> 30137

```

Tyr Leu Ile Thr Ala Gln Leu Ile Ser Leu Leu Tyr Gly Asp Gly Phe
1      5      10      15
His Ile Phe Lys Pro Asp Val Pro Pro Asp His Asp Asp Tyr Asp Val
      20      25      30
Met Ile Leu Met Lys His His Arg Cys Phe Gly Pro Phe Pro Glu Ser
      35      40      45
Tyr Glu Gln Ile Ala Asp Ser Gln Arg Leu Ala Ile Leu Val Trp Ile
      50      55      60
Met Gln Asn Ser Pro Pro Glu Lys Leu Arg Pro Phe His Leu Thr Ser
65      70      75      80
Thr Gln Glu Ile Cys Gln Glu Asp Lys Glu Phe Ile Leu Arg Thr Met

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11383

85 90 95
 Lys Leu Asp Pro Arg Asp Arg Pro Ser Ala Arg Gln Leu Leu Glu Asp
 100 105 110
 Glu Trp Phe Arg His Ser
 115

<210> 30138
 <211> 186
 <212> PRT
 <213> A.fumigatus

<400> 30138
 Gln Gly Ile Glu Ser Val Phe Asn Ile His Val Ser Ser Cys Asp Ser
 1 5 10 15
 Arg Lys Lys Thr Leu Ala Leu Thr Val Ser Ile Ser Val Asn Pro Leu
 20 25 30
 Tyr Tyr Val Thr Phe Thr Thr Ala Thr Leu Cys Ala Ser Phe Ile Leu
 35 40 45
 Phe Lys Gly Phe Asn Thr Ser Asp Ala Val Asn Thr Ile Ser Leu Leu
 50 55 60
 Cys Gly Phe Leu Thr Ile Phe Ser Gly Val Tyr Leu Leu Asn Leu Ser
 65 70 75 80
 Arg His Asp Pro Asp Gly Arg His Leu Leu Ser Ser Lys Leu Asp Asp
 85 90 95
 Glu Gly Val Pro Thr Asp Gly Ile Ala Ser Phe Gln Thr Arg Arg Ser
 100 105 110
 Met Gln Ser Arg Arg Ser Asn Glu Pro His Arg Arg Ser Ser Ser Phe
 115 120 125
 Ala Phe Met Asn Gly His Gly Asp Arg Glu Gly Leu Met His Ser Tyr
 130 135 140
 Asp Val Glu Asn Gln Ala Phe Gly Leu Ser Glu Leu Thr Glu Glu Ser
 145 150 155 160
 Asp Gly Glu Pro Gly Pro Thr Tyr Lys Arg Ser Asp Asp Ile Asp Arg
 165 170 175
 Thr Thr Gln His Pro Asn Lys His Asp Glu
 180 185

<210> 30139
 <211> 145
 <212> PRT
 <213> A.fumigatus

<400> 30139
 His Thr Gly Ile Pro Val Lys Leu Ser Cys Thr Pro Trp Val Val Ile
 1 5 10 15
 Ser Ser Val Ser Arg Leu Asp Val His Gln Ser Gly Ser Leu Pro Pro
 20 25 30
 Gln Arg Ile Leu Ser Gly Asp Met Pro Gly Leu Leu Arg Lys Phe Val
 35 40 45
 Ile Ile Ala Ala Val Asp Gly Leu Ile Leu Gln Pro His Gly Asn Gly
 50 55 60
 Gly Arg Asn Ser Gly Asn Tyr Glu Pro Gln Ser Val Arg Ile Asp Tyr
 65 70 75 80
 Lys Thr Asn Lys Ile Ser Pro Leu Pro Ala Pro Ala Ser Asp Pro Ala
 85 90 95
 Val Arg Lys Glu Ala Gly Leu Glu Ala Tyr Gly Leu Val Gly Lys Leu

11384

100 105 110
Ala Ser Ser Ala Thr Val Ser Asp Ile Val Phe Ser Leu Cys Asn Ser
115 120 125
Glu Tyr Thr Lys Phe Phe Pro Pro Gly Lys Ser Leu Val Phe Thr Pro
130 135 140
Ala
145

<210> 30140
<211> 107
<212> PRT
<213> A.fumigatus

<400> 30140
Arg Trp Leu Thr Arg Val Thr Leu Ser Gly Phe Leu Ile Tyr Cys Leu
1 5 10 15
Ala Val Ala Ile Phe Ser Thr Val Met Ile Tyr Arg Val Ala Pro Val
20 25 30
Tyr Gly Lys Lys Asn Pro Leu Ile Phe Ile Ser Ile Cys Ser Thr Val
35 40 45
Gly Ser Val Ser Val Met Ser Val Lys Ala Phe Gly Ile Ala Leu Lys
50 55 60
Leu Thr Phe Asn Gly Asn Asn Gln Phe Thr His Ala Ser Thr Tyr Val
65 70 75 80
Phe Met Ile Val Thr Gly Phe Cys Ile Leu Thr Gln Met Asn Tyr Phe
85 90 95
Asn Lys Ala Leu Asn Gln Phe Ser Thr Ser Met
100 105

<210> 30141
<211> 325
<212> PRT
<213> A.fumigatus

<400> 30141
Arg Thr Arg Tyr Leu Leu Gly Pro Gly Arg Asp Asp Ser Ala Asn Arg
1 5 10 15
Gly Val Phe Lys Tyr Gln Leu Arg Tyr Cys Pro Ala Leu Ala Asn Lys
20 25 30
Pro Ser Gly Ala Pro Lys Ser Asp Lys Asp Arg Pro Gly Pro Lys Pro
35 40 45
Asp Pro Phe Glu Asn Pro Ser Thr Asp Leu Leu Ile Ala Gln Ile Pro
50 55 60
Gln Glu Asn Pro Lys Tyr Thr Leu Val Leu Asn Lys Phe Pro Val Ile
65 70 75 80
Thr Asn His Phe Ile Leu Ala Thr Lys Thr Trp Lys Ser Gln Thr Asp
85 90 95
Ile Leu Glu Lys Glu Asp Leu Asp Ala Ala Tyr Ala Cys Ile Lys Ala
100 105 110
Trp Arg Asp Asn Gln Thr Glu Gln Gly Asp Ser Gly Ser Asn Arg Leu
115 120 125
Phe Ala Phe Phe Asn Ser Gly Asp Glu Ser Gly Ala Ser Gln Pro His
130 135 140
Arg His Leu Gln Phe Leu Pro Val Glu Asp Met Ser Gln Gly Asp Ser
145 150 155 160
Gly Asn Trp Gln Pro Leu Ile Asp Thr Ile Ser Ser Gln Trp Val Cys

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<210> 30142
<211> 77
<212> PRT
<213> A.fumigatus
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<210> 30143
<211> 65
<212> PRT
<213> A.fumigatus
```

```

<400> 30143
Thr Lys Thr Thr Thr Thr Thr Ser Arg Ser Arg Trp Pro Lys Arg Met
1          5          10          15
Asp Cys Gln Gly Tyr Leu Arg Ile Pro Ala Gly Asn Thr Gly Ala Asp
          20          25          30
Gly Ala Pro Arg Leu Lys Tyr Thr Val Lys Trp Leu Gly Tyr Asp Asn
          35          40          45
Pro Thr Glu Asp Pro Ala His Tyr Leu Arg Glu Arg Thr Arg Asp Tyr
          50          55          60
Ser
65

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<210> 30144
 <211> 102
 <212> PRT
 <213> A.fumigatus

<400> 30144
 Leu Val Trp Leu Asp Ala Arg Asn Ile Arg Thr Leu Arg Pro Gln Lys
 1 5 10 15
 Lys Leu Asn Trp Lys His Leu Gly Pro Phe Tyr Ile Lys Lys Ile Ile
 20 25 30
 Ser Pro His Ala Tyr Glu Leu Asp Leu Pro Ala Ser Met Lys Ile His
 35 40 45
 Pro Val Phe Asn Val Ser Leu Leu His Pro Val Ala Lys Asp Pro Val
 50 55 60
 Pro Arg Gln Arg Gln Pro Pro Pro Val Glu Val Asp Gly Leu Lys
 65 70 75 80
 Glu Trp Ile Val Lys Asp Ile Leu Glu Phe Pro Leu Gly Thr Leu Gly
 85 90 95
 Pro Met Gly Pro Pro Val
 100

<210> 30145
 <211> 166
 <212> PRT
 <213> A.fumigatus

<400> 30145
 Arg Ile Tyr Trp Gly His Lys Ser Leu Asn Ala Gly Arg Asn Lys Met
 1 5 10 15
 Tyr Tyr Tyr Tyr Tyr Gly His Asp Leu Ile Gln Asp Ser Phe Lys Thr
 20 25 30
 Pro Lys Thr Thr His Met Cys Tyr Ser Ala Thr Pro Ile Leu Leu Arg
 35 40 45
 Glu Met Cys Ser Glu Thr Tyr Ser Thr Ser Ser His Val Thr His Val
 50 55 60
 Asn Arg His Gln Ser Arg Ser Ser Leu Arg Val Gln Ile Ile Trp Ser
 65 70 75 80
 Met Arg Phe Leu Arg Leu Phe Val Val Cys Ala Val Ser His Ser His
 85 90 95
 Met Arg Arg Leu Arg Ala Ala Ala Ala Phe Phe Ser Lys Cys Asp Ser
 100 105 110
 Thr Ile Ile Gln Ile Asn Tyr Ser Tyr Gln Ile Ile His Thr Met Phe
 115 120 125
 Thr Thr Lys Asn Trp Leu Val Gly Lys Cys Phe Gly Gly Arg Gln Gly
 130 135 140
 Leu Leu Thr Leu Ser Trp Leu Arg Trp Leu Arg Glu Trp Tyr Ile Trp
 145 150 155 160
 Asn Arg Ser Ile Tyr Ala
 165

<210> 30146
 <211> 108
 <212> PRT
 <213> A.fumigatus

<400> 30146


```

Ser Lys Met Ala Gly Ser Lys Thr Glu Ser Ala Val Arg Phe Pro Glu
1      5      10      15
Lys Asp Ser Gln Thr Arg Arg Leu Arg Asn Gln Thr Thr Gln Asp Lys
20      25      30
Lys Ala Val Ala Arg Met Gln Ala Glu Thr Ala Ser Ala Gln Ala Arg
35      40      45
Val Ala Arg Ala Thr His Ala Gly Glu Glu Trp Thr Pro Val Glu Asn
50      55      60
Phe Glu Thr Ala Met Asp Gln Asp Gly Asn Pro Val Pro Asp Pro Ala
65      70      75      80
Tyr Thr Asp Tyr Glu Lys Met Arg Gln His Lys Gly Gly Glu Asp Glu
85      90      95
Ala Asp Asp Tyr Val Ala Ala Asn Ala Asn Phe Asp
100      105

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<210> 30147

<211> 791

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (723), (728)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30147

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Cys Asn Arg Gly Glu Asp Ser Glu Pro Leu Ala Pro Gly Asp Leu Arg
1      5      10      15
Arg Asn Thr Val Phe Lys Met Arg Leu Glu Met Ser Gln Glu Thr Met
20      25      30
Leu Arg Ile Pro Thr Arg Glu Pro Ser Lys Asp Trp Leu Trp Lys Gly
35      40      45
Arg Ala Asp Ala Ile Arg Gly Ala Thr Lys Leu Lys Lys Gln Arg Lys
50      55      60
Arg Arg Pro Ser Arg Pro Ala Glu Gly Asp Lys Ser Asn Leu Gly Pro
65      70      75      80
Asp Ile Arg Pro Phe Gly Trp Leu Ser Leu Arg Val Ala Gly Asp Ser
85      90      95
Thr Val Thr Tyr Ser Met Asp Met Val Ala Ser Thr Thr Lys Gly Phe
100      105      110
Asn Asn Leu Leu Glu Leu Asp Leu Arg Asp Ser Arg Leu Ser Ser Ser
115      120      125
Val Asn His Ala Leu Leu Trp Gln Cys Pro Arg Gln Leu Val Thr Cys
130      135      140
Asp Leu Ser Asn Pro Leu Ser Trp Asn Asn Leu Arg Thr Trp Thr Phe
145      150      155      160
Asp Val Glu Ser His Asn Met Glu Leu Phe Leu Leu Arg Asp His Ile
165      170      175
Phe Leu Leu Thr Asp Leu Val Ser Asp Trp Ala Ser Gly Pro Pro Gln
180      185      190
Glu Tyr Phe Thr Phe Val Pro Phe Thr Tyr Thr Leu Asn Leu Ser Phe
195      200      205
Val Asp Phe Lys Leu Phe Val Asn Val Asn Asp Leu Asn Ile Ile Ser
210      215      220
Asn Pro Ser Asp Leu Asp Asp Asn Arg Met Leu Val Ile Lys Gly Lys
225      230      235      240

```

Lys Leu Ala Ser Asp Val Leu Ile Pro Leu Thr Thr Tyr Lys Pro Glu
 245 250 255
 Gln Asn Ala Val Asn Phe Asn Val Tyr Leu Asp Ser Gly Gly Ile Asp
 260 265 270
 Phe Leu Ser Pro Gln Trp Asp Thr Leu His Thr Phe Leu Gln Asp Gln
 275 280 285
 Ser Ile Ala Thr Leu Asp Gly Leu Ser Leu Arg Gly Ser Tyr Asn Tyr
 290 295 300
 Tyr Leu Ser Thr Ala Pro Asp Leu Thr Asp Thr Leu Leu Leu Ser Ile
 305 310 315 320
 Asn Gly Val Ser Pro Lys Leu Tyr Leu Tyr Gly Phe Leu Ile Lys Ser
 325 330 335
 Phe Met Thr Ile Arg Glu Asn Tyr Phe Gly Asp Glu Met His Phe Lys
 340 345 350
 Thr Leu Glu Glu Phe Gln Glu Leu Ala Tyr Ser Glu Glu Arg Val Asn
 355 360 365
 Phe His Asn Gly Ile Asn Pro Asn Arg Lys Ser Asn Asp Leu Asp Val
 370 375 380
 Ile Val His Val Thr Val Asp Asp Ala Cys Ala Leu Leu Pro Glu Asn
 385 390 395 400
 Met Tyr Asp Arg Leu Lys Cys Val Arg Leu Thr Thr Pro Ser Leu Glu
 405 410 415
 Val Asp Leu Arg Phe Thr Asn Tyr Tyr Met Asp Leu Gln Phe Ser Ile
 420 425 430
 Ser Pro Leu Arg Ala Ala Met Gln Val His Arg Val Glu Gly Pro Ala
 435 440 445
 Ser Ile Ser Asn Thr Gln Leu Phe Ile Asp Gly Ala Phe Ile His Gly
 450 455 460
 His Arg Leu Phe Gly Leu Pro Pro Ser Glu Pro Thr Tyr Val Cys Asn
 465 470 475 480
 Trp Asp Phe Glu Val Gly Gln Ile Phe Gly Glu Cys Ser Ala Glu Phe
 485 490 495
 Leu Gly Cys Leu Ala Ala Ala Leu Gln Ser Phe Asp Gln Ser Phe Asp
 500 505 510
 Asn Glu Glu Asn Ala Leu Pro Pro Leu Val Pro Ile Ala Leu His Asp
 515 520 525
 Val Thr Phe Leu Arg Ala Lys Ile Gln Pro Ile His Ile Ala Val Leu
 530 535 540
 Ser Asp Gln Ala Ala Leu Ile Leu Ser Ser Gly Leu Ile Thr Thr Lys
 545 550 555 560
 Phe Asn Asp Trp Ala Asn Ala Ser Phe Ser Lys Arg Met Ser Leu Leu
 565 570 575
 Val Pro Asp Leu Ser Ile Ala Ala Val Asn Tyr Arg Asp Ile Asp Leu
 580 585 590
 Lys Gly Ser Ser Ser Pro Ala Gly Val Ser Pro Leu Ala Leu Phe Gln
 595 600 605
 Thr Thr Ile Lys Leu Arg Met Ala Gln Arg Arg Ala Asp Ile Asp Glu
 610 615 620
 Asn Arg Lys Leu Gln Gln Glu His Ile Gly Val His Asp Gln Arg Thr
 625 630 635 640
 Gln Arg Thr Pro Trp Leu Met Phe Asp Trp Glu Asp Ile Asp Pro Ser
 645 650 655
 Ser Phe Arg Thr Pro Asn Asp Gln Leu Ala Pro Pro Thr Ile Ala Ile
 660 665 670
 Pro Ser Met Pro Glu Pro Ile Ile Lys Gln Leu His Thr Leu Ser Ser
 675 680 685

Ala Asp Ser Leu Ser Asp Phe Lys Ser Gln Gln Ser Ser Lys Ser Phe
 690 695 700
 Val Leu Thr Ser Asp Asn Ser Ser Phe Lys Ser Gly Arg Arg Arg Thr
 705 710 715 720
 Thr Arg Xaa Met Ser Leu Pro Xaa Gln Pro Gln Ile Asp Lys Arg Ser
 725 730 735
 Lys Asn Pro Asn Asn Arg Ile Asp Asp His Val Pro Lys Ile Ile Thr
 740 745 750
 Tyr Arg Gln Ala Asn Glu Phe Pro Lys Tyr Pro Ser Leu Pro Asn Pro
 755 760 765
 Ala Pro Asn Ser Ser Lys Cys Leu Asp Lys Cys Pro Lys Phe His Ala
 770 775 780
 Ser Pro Lys Ile Ser Leu Lys
 785 790

<210> 30148

<211> 65

<212> PRT

<213> A.fumigatus

<400> 30148

Gly Phe Thr Ser Asn Leu Val Lys Val Ile Glu Thr Glu Cys Thr Ser
 1 5 10 15
 Leu Cys Gln Thr Ala Gly Val His Val Ala Asp Tyr Ser Cys Val Gln
 20 25 30
 Glu Glu Lys Ser Lys Ala Lys Gln Ala Ile Asp Ser Lys Arg Arg Phe
 35 40 45
 Ala Gly Gly Asn Glu Glu Ala Ser Asp Asn Leu Leu Ser Asp Glu
 50 55 60
 Ser
 65

<210> 30149

<211> 146

<212> PRT

<213> A.fumigatus

<400> 30149

Ile Leu Lys Thr Phe Leu Trp Ser Ala Leu Ala Phe Asp Ser Thr Gly
 1 5 10 15
 Arg His Tyr Asp Gln Thr Gly Asn Tyr Thr Asp Trp Trp Asp Ala Lys
 20 25 30
 Thr Val Gln Gly Phe Glu Asp Arg Ala Gln Cys Phe Val Asp Gln Tyr
 35 40 45
 Ser Asn Phe Thr Val Leu Gly Glu Asn Gly Glu Pro Leu His Val Asn
 50 55 60
 Gly Arg Leu Thr Leu Gly Glu Asn Ile Ala Asp Ala Gly Gly Ile Gly
 65 70 75 80
 Ala Ala Phe Gln Ala Trp Lys Lys Arg Asp Glu Ala Ser Pro Asp Ala
 85 90 95
 His Leu Pro Gly Leu Ser Asn Phe Ser Lys Glu Gln Leu Phe Phe Ile
 100 105 110
 Ala Tyr Gly Asn Trp Trp Cys Ala Lys Thr Thr Lys Glu Ala Ala Ile
 115 120 125
 Gln Ala Ile Tyr Thr Asp Pro His Ala Pro Lys Phe Ala Arg Ile Ile
 130 135 140

Val Ser
145

<210> 30150

<211> 320

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (83), (106)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30150

Ile	Met	Pro	Pro	Val	Pro	Gly	Arg	Pro	Glu	His	Arg	Arg	Val	Ile	Cys
1				5					10					15	
Tyr	His	Gln	Thr	Leu	Cys	Pro	Asn	Arg	Gly	Asp	Tyr	Val	Ser	Val	Leu
			20					25					30		
Pro	Leu	Val	Lys	Asn	Asn	Thr	Gly	Val	Thr	His	Ile	Ile	Ile	Ala	Ala
			35				40					45			
Phe	His	Leu	Asn	Glu	Asp	Pro	Gly	His	Ile	Thr	Leu	Asn	Asp	Asp	Pro
	50					55					60				
Pro	Asp	His	Glu	Met	Tyr	Asn	Pro	Leu	Trp	Ala	Glu	Val	Pro	Val	Leu
65					70					75				80	
Lys	Arg	Xaa	Gly	Val	Lys	Val	Met	Gly	Met	Leu	Gly	Gly	Ala	Ala	Gln
				85				90						95	
Gly	Ser	Tyr	Arg	Cys	Leu	Asp	Gly	Asp	Xaa	Glu	Lys	Phe	Glu	Arg	Tyr
			100				105						110		
Tyr	Gln	Pro	Leu	Leu	Ala	Met	Val	Arg	Arg	His	Gln	Leu	Asp	Gly	Leu
	115						120						125		
Asp	Leu	Asp	Val	Lys	Lys	Glu	Met	Ser	Leu	Pro	Gly	Ile	Ile	Arg	Leu
	130					135					140				
Ile	Asp	Arg	Leu	Lys	Leu	Asp	Leu	Gly	Asp	Asp	Phe	Ile	Ile	Thr	Leu
145					150					155					160
Ala	Pro	Val	Ala	Ala	Ala	Leu	Leu	Gly	Ile	Gly	Asn	Leu	Ser	Gly	Phe
				165					170					175	
Asp	Tyr	Arg	Gln	Leu	Glu	Gln	Gln	Arg	Gly	Ser	Lys	Ile	Ser	Trp	Tyr
			180					185					190		
Asn	Ala	Gln	Phe	Tyr	Asn	Gly	Trp	Gly	Leu	Ala	Glu	Asp	Pro	Arg	Met
	195					200						205			
Tyr	Ala	Ala	Ile	Val	Ala	Gln	Gly	Trp	Ser	Pro	Gln	Arg	Val	Val	Tyr
	210					215					220				
Gly	Leu	Leu	Thr	Asn	Pro	Gly	Asn	Gly	Ser	Gln	Gly	Tyr	Val	Pro	Arg
225					230					235				240	
Glu	Arg	Ile	Gly	Pro	Val	Leu	Ala	Val	Leu	Val	Glu	Gln	Phe	Pro	Asn
				245					250					255	
Phe	Gly	Gly	Val	Met	Gly	Trp	Glu	Tyr	Phe	Asn	Ser	Ile	Pro	Gly	Glu
			260					265					270		
Gln	Gln	Ser	Pro	Trp	Gln	Trp	Ala	Glu	Met	Ser	Leu	Ser	Met	His	
		275					280					285			
Met	Lys	Asp	Val	Leu	Ala	Ala	Ala	Arg	Gln	Met	Leu	Thr	Ala	Gly	Pro
	290					295					300				
Met	Ala	Asn	Ser	Leu	Met	Asn	Val	Leu	Arg	Asp	Met	Met	His	Gln	Pro
305					310					315					320

<210> 30151

<211> 223
 <212> PRT
 <213> A.fumigatus

<400> 30151

Ile	Gln	Val	Asn	Val	Tyr	Tyr	Ile	His	Ser	Pro	Asp	Arg	Gln	Ile	Pro
1				5					10					15	
Leu	Glu	Glu	Thr	Leu	Ala	Gly	Ile	Asn	Glu	Leu	His	Lys	Ala	Gly	Lys
			20					25					30		
Phe	Lys	His	Phe	Gly	Leu	Ser	Asn	Phe	Arg	Pro	Glu	Glu	Val	Gln	Glu
		35					40					45			
Val	Val	Arg	Ile	Ala	Lys	Glu	Lys	Gly	Tyr	Val	Leu	Pro	Ser	Val	Tyr
	50					55					60				
Gln	Gly	Asn	Tyr	Asn	Ala	Val	Ala	Arg	Arg	Ile	Glu	Ala	Glu	Leu	Leu
65				70					75						80
Pro	Val	Leu	Arg	Glu	Asn	Asn	Ile	Arg	Phe	Tyr	Ala	Tyr	Ser	Pro	Ile
				85					90					95	
Ala	Gly	Gly	Phe	Leu	Thr	Lys	Thr	Lys	Glu	Gln	Leu	Leu	Ala	Gly	Gly
			100					105						110	
Glu	Gly	Arg	Trp	Asp	Pro	Asn	Ser	Ala	Ile	Gly	Gln	Ile	Tyr	His	Arg
		115					120					125			
Leu	Tyr	Asn	Lys	Pro	Ala	Met	Leu	Glu	Val	Leu	Asp	Asp	Trp	Ala	Glu
	130					135					140				
Ile	Ala	Lys	Ala	Glu	Gly	Val	Thr	Lys	Ala	Glu	Leu	Ala	Tyr	Arg	Trp
145					150					155					160
Ile	Phe	Phe	His	Ser	His	Ile	Arg	Glu	Asp	Leu	Gly	Asp	Ala	Val	Ile
			165						170					175	
Val	Gly	Ala	Thr	Lys	Ile	Ser	Gln	Phe	Glu	Glu	Thr	Ile	Ala	Ala	Ile
			180					185					190		
Gln	Arg	Gly	Pro	Leu	Ser	Ala	Asp	Ala	Val	Lys	Arg	Ile	Asp	Ala	Val
	195						200						205		
Trp	Glu	Lys	Ile	Lys	Asp	Val	Ala	Thr	Leu	Asp	Asn	Phe	Asn	Ala	
	210					215					220				

<210> 30152
 <211> 80
 <212> PRT
 <213> A.fumigatus

<400> 30152

Ala	Ser	Thr	Cys	Asp	Lys	Arg	Leu	Thr	Tyr	Lys	Pro	Leu	Gln	Phe	Gln
1				5					10					15	
Gly	Thr	Ser	Cys	Leu	Trp	Thr	Thr	Glu	Thr	Asn	Leu	Asp	Ser	Val	Arg
			20					25					30		
Ile	Tyr	Phe	Ile	Gln	Asn	Val	Asn	Asn	Tyr	Ser	Asp	Val	Asp	Ala	Lys
		35					40					45			
Leu	Ser	Ser	Val	Ser	Ser	Gly	Leu	Asn	Pro	Leu	Ile	Phe	Thr	Pro	Cys
	50					55					60				
Gly	Ser	Ile	Ala	Gly	Leu	Ser	Leu	Arg	Ser	Thr	Phe	Arg	Leu	Ile	Val
65					70					75					80

<210> 30153
 <211> 117
 <212> PRT
 <213> A.fumigatus

<400> 30153

Cys Thr Pro Gly Glu Asp Leu Ala Ile Leu Leu Leu Ala Arg Lys Phe
 1 5 10 15
 Gly Val Pro Ile Val Pro His Ser Gly Gly Val Gly Leu Pro Glu Tyr
 20 25 30
 Thr Gln His Leu Ser Thr Ile Asp Tyr Val Val Val Ser Gly Lys Lys
 35 40 45
 Ser Val Leu Glu Tyr Val Asp His Leu His Glu His Phe Val His Pro
 50 55 60
 Ser Ser Val Lys Asp Gly Tyr Tyr Val Thr Pro Met Glu Pro Gly Tyr
 65 70 75 80
 Ser Val Glu Met Lys Pro Glu Ser Met Asp Ala Phe Ala Phe Pro Gly
 85 90 95
 Glu Glu Gly Lys Ser Trp Trp Arg Thr Glu Ala Ala Lys Ala Ile Leu
 100 105 110
 Glu Gly Pro Arg Ile
 115

<210> 30154

<211> 205

<212> PRT

<213> A.fumigatus

<400> 30154

Pro Arg Phe Ser Asp Thr Phe Ala Val Lys Glu Ala Pro Ser Leu Met
 1 5 10 15
 Gln Thr Ile Gly Arg Phe Leu His Tyr Arg Arg Glu Pro Asp Asn Lys
 20 25 30
 His Val Tyr Met Ile Arg Asp Pro Arg Ile Lys Asn Ala Leu Ala
 35 40 45
 Ile Gly Val His Gly Tyr Phe Pro Ala Pro Leu Ile Arg Thr Val Leu
 50 55 60
 Gly Gln Pro Thr Gly Thr Ser Val Arg Phe Ala Thr Met Ala Ala Glu
 65 70 75 80
 Ala Ile His Lys Trp Thr Glu Ser His Gly Tyr Ala Cys Asp Val Glu
 85 90 95
 Lys Ile Ala Leu Glu Gly Glu Gly Arg Ile Ala Glu Arg Val Asp Leu
 100 105 110
 Leu Trp Lys Leu Leu Leu Asn Trp Val Glu Lys Ile Arg Lys Ala Asp
 115 120 125
 Phe Ile Leu Val Ala Cys His Ser Gln Gly Val Pro Val Ala Ile Met
 130 135 140
 Leu Val Ala Lys Leu Ile Ala Phe Gly Cys Leu Asn Ala Thr Arg Val
 145 150 155 160
 Gly Val Cys Ala Met Ala Gly Val Asn Met Gly Pro Phe Ser Asp Tyr
 165 170 175
 Arg Ser Arg Trp Ile Ser Gly Ser Ala Gly Glu Leu Phe Glu Phe Ala
 180 185 190
 Leu Pro Tyr Ser Gln Phe Ser Lys Ile Met Lys Val Gln
 195 200 205

<210> 30155

<211> 89

<212> PRT

<213> A.fumigatus

<400> 30155

Arg Ser Phe Leu Arg Leu Ala Ile Glu Phe Ala Leu Glu Thr Thr Asn
 1 5 10 15
 Val Ser Asn Ala Ala Leu Asp Val Arg Arg Ser His Pro Ser Pro Ala
 20 25 30
 Asn Pro Tyr Ile Leu Pro Phe Ala Met Arg Gly Ile Leu Glu Glu Glu
 35 40 45
 Tyr Val Arg Arg Glu Leu Tyr Glu Glu Thr Met Gln Leu Leu Arg Gln
 50 55 60
 Tyr Asp Asp Trp Lys Pro Ser Ser Lys Val Leu Lys Asp Val Lys Phe
 65 70 75 80
 Arg Leu Glu Gly Ile Arg Ser Lys Leu
 85

<210> 30156

<211> 151

<212> PRT

<213> A.fumigatus

<400> 30156

Glu Lys Val Ile Ser Tyr Leu Lys Ile Tyr Leu Ile Thr Gly Ile Gly
 1 5 10 15
 Thr Met Phe Phe Ile Gly Ile Leu Leu Pro Tyr Asn Asp Lys Arg Leu
 20 25 30
 Leu Gly Ser Ser Ser Asn Ala Ala Ser Ser Pro Leu Thr Ile Ala Leu
 35 40 45
 Thr Asp Ala Gly Ile Leu Pro Ala Ala His Leu Ile Asn Ala Leu Ile
 50 55 60
 Val Ile Ser Val Ile Ser Ala Gly Asn Gly Ser Leu Tyr Val Ala Ser
 65 70 75 80
 Arg Thr Leu Leu Phe Met Ala Arg Asn Gly Lys Ala Pro Arg Phe Ile
 85 90 95
 Gly Arg Thr Asn Gly Ala Gly Val Pro Trp Val Ala Leu Ile Phe Ser
 100 105 110
 Asn Leu Phe Thr Cys Ile Val Phe Leu Thr Gln Ser Ser Gly Ala Gly
 115 120 125
 Lys Ile Tyr Ser Ala Leu Ile Thr Leu Ser Gly Gly Glu Leu Ala Ser
 130 135 140
 Arg Pro Pro Ile Leu Val Cys
 145 150

<210> 30157

<211> 140

<212> PRT

<213> A.fumigatus

<400> 30157

Arg Val Thr Val Ala Thr Phe Ile Val Trp Ala Val Ile Gly Ile Cys
 1 5 10 15
 His Ile Arg Phe Arg Arg Ala Leu Val Val Gln Gly Glu Asp Pro Ala
 20 25 30
 Lys Leu Pro Phe Lys Ala Trp Leu Tyr Pro Trp Gly Thr Tyr Phe Ser
 35 40 45
 Val Ala Leu Asn Ile Phe Leu Val Phe Phe Gln Gly Tyr Thr Ala Phe
 50 55 60
 Leu Asn Pro Phe Ser Ala Asp Asp Phe Val Ile Asn Tyr Ile Leu Leu

11394

65		70		75		80									
Pro	Val	Phe	Ala	Leu	Phe	Val	Leu	Gly	Tyr	Lys	Phe	Trp	His	Lys	Thr
			85						90					95	
Arg	Trp	Val	Lys	Leu	Glu	Glu	Met	Asp	Ile	Trp	Thr	Gly	Arg	Arg	Lys
			100					105					110		
Ser	Pro	Asp	Val	Asp	Val	Thr	Asp	Glu	Pro	Pro	Val	Lys	Lys	Gln	Lys
			115				120					125			
Ser	Trp	Trp	Ala	Arg	Val	Leu	Ala	Val	Val	Ile	Gly				
			130			135					140				

<210> 30158

<211> 715

<212> PRT

<213> A.fumigatus

<400> 30158

Arg	Arg	Glu	Met	Glu	Arg	Arg	Leu	Ala	Tyr	Leu	Lys	Arg	Leu	Arg	Asp
1				5					10					15	
Gln	Asp	Ile	Ser	Ser	Glu	Gln	Ala	Ser	Asp	Glu	Lys	Ala	Lys	Ser	Gln
			20					25					30		
Lys	Phe	Ile	Leu	Ile	Thr	Pro	Glu	Met	Val	His	Gln	Ser	Pro	Gln	Asn
	35						40				45				
Ala	Ser	Pro	Lys	Val	Lys	Glu	Val	Leu	His	Ala	Ala	His	Asp	Ala	Glu
	50					55					60				
Tyr	Asp	Asn	Ala	Leu	His	His	Tyr	Gln	Thr	Gln	Lys	Arg	Gln	Trp	Glu
65					70					75				80	
Ala	Tyr	Ile	Ser	Gly	Ala	Ser	Ser	Leu	Phe	Asp	Pro	Tyr	Ala	His	Gln
			85					90					95		
Asn	Ile	Val	Val	Leu	Phe	Ser	Leu	Val	Cys	Thr	Thr	Thr	Ser	Ile	Pro
		100						105					110		
Cys	Ser	Gly	Pro	Asp	Leu	Phe	Ala	Leu	Glu	Tyr	Tyr	Asn	Glu	His	Gly
		115					120					125			
Asp	Asp	Thr	Ile	Phe	Glu	Pro	Asp	Cys	Thr	Ile	Gly	Gln	Tyr	Val	Glu
	130					135					140				
Asp	Ile	Cys	Gln	Asn	Ala	Asn	Ala	Ile	Cys	Thr	Ala	Asn	Gly	Cys	Glu
145					150					155				160	
Lys	Arg	Met	Phe	Glu	His	His	Arg	Gln	Tyr	Val	His	Gly	Glu	Ala	Gln
			165						170				175		
Ile	Ser	Val	Phe	Val	Gln	Pro	Tyr	Pro	Ser	Lys	Leu	Arg	Gly	Leu	Gln
		180					185						190		
Asp	Thr	Ile	Leu	Met	Trp	Ser	Cys	Cys	Lys	Val	Cys	Gly	Asn	Glu	Thr
		195					200					205			
Gln	Val	Phe	Pro	Met	Ser	Asp	Ser	Thr	Trp	Lys	Tyr	Ser	Phe	Gly	Lys
	210					215					220				
Tyr	Leu	Glu	Leu	Ser	Phe	Tyr	Ser	Lys	Asn	Leu	His	Ala	Arg	Ala	Gly
225					230					235				240	
Val	Cys	Pro	His	Asp	Leu	Gln	Arg	Asp	His	Leu	Arg	Phe	Phe	Gly	Tyr
			245						250				255		
Lys	Asp	Ile	Ala	Leu	Arg	Ile	His	Tyr	Asp	Thr	Ile	Asn	Leu	Leu	Glu
		260					265					270			
Ile	Ile	Val	Pro	Arg	Thr	Arg	Val	Thr	Trp	Lys	Val	Asp	Asn	Asp	Leu
		275					280					285			
Lys	Leu	Arg	Asn	Glu	Val	Tyr	Leu	Lys	Ile	Glu	Gln	Arg	Leu	Asn	Arg
	290					295				300					
Phe	Met	Gly	Ser	Val	Lys	Ala	Arg	Leu	Lys	Gly	Ile	Asn	Val	Asp	Ser
305					310					315				320	

11395

Val Val Pro Lys Leu Ala Glu Ala Cys Lys Ala Glu Ile Glu Val Leu
 325 330 335
 Thr Arg Lys Ala Asn Glu Asp His Ala Ala Leu Ile Lys Gln Leu Gln
 340 345 350
 Asp Lys Tyr Ile Ser Ser Arg Tyr Trp Glu Val Thr Pro Leu Asn Glu
 355 360 365
 Val Leu Arg Ser Val Gln Glu Lys Val Val Glu Trp Asp Thr Ala Phe
 370 375 380
 Ala Asp Phe Glu Lys Asn Phe Phe Pro Ser Glu Lys Asp Ile Arg Arg
 385 390 395 400
 Leu Ala Thr Leu Gln Leu Lys Lys Ile Phe Leu Asp Lys Asp Ser Ser
 405 410 415
 Val Thr Ser Leu Thr Ser Ser Glu Glu Pro Pro Thr Thr Pro Thr Glu
 420 425 430
 Ala Glu Ser Gly His Asp Gln Met Thr Glu His Pro Arg Pro Met Arg
 435 440 445
 Arg Met Thr Leu Ser Pro Glu Lys Ala Gln Asp Val Leu Val Ser Val
 450 455 460
 Val Glu Glu Asp Ser Ser Glu Lys Asn Ala His Glu Ala Thr Leu Tyr
 465 470 475 480
 Lys Asp Glu Val Pro Leu Pro Ser Ser Pro Ser Pro Glu Glu Thr Glu
 485 490 495
 Thr Ser Ile Pro Pro Ala Ala Glu Pro Asp Glu Pro Glu Gly Ser Gln
 500 505 510
 Ser Pro Glu Ser Thr Ala Gln Ser Ala Met Pro Glu Gln Val Pro Pro
 515 520 525
 Ser Thr Thr Pro Ser Ala Ser Ser Leu Gly Thr Ser Gly Ala Thr Ser
 530 535 540
 Asp Ala Ala Glu Ser Gly Lys Val Ser Pro Glu His Pro Pro Thr Glu
 545 550 555 560
 Gln Gly Asp Ser Gln Arg Gln Asn Leu Asp Thr Glu Ser Gln Thr Pro
 565 570 575
 Ser Ser Met Leu Lys Gln Pro Thr Pro Ser Gly Ile Pro Arg Leu Ala
 580 585 590
 Glu Gly Val Val Arg Arg Thr Gly Lys Ala Thr Ser Pro Pro Leu Leu
 595 600 605
 Arg Ala Gln Ser Gln Pro Leu Gln Gly Gln Arg Asp Arg Val Lys Met
 610 615 620
 Ser Val Pro Leu Arg Gly Phe Arg Val Gly Ala Ala Gly Ala Gly Gly
 625 630 635 640
 Leu Asp Asn Ile Ser Ser Pro Thr Pro Glu Ser Lys Phe Arg Pro Ser
 645 650 655
 Asp Arg Lys Phe Ser Asp Arg Phe Gly Leu Thr Ala Leu Arg Asn Ser
 660 665 670
 Arg Leu Thr Pro Gly Pro Ser Leu Ile Pro Arg Ser Val Pro Ser Arg
 675 680 685
 Lys Asn Asn Thr Arg Val Ser Asn Leu Ala Lys His Leu Glu Gln Phe
 690 695 700
 Phe Tyr Lys Pro Ala Ala Gly Ser Thr Ser Gly
 705 710 715

<210> 30159

<211> 158

<212> PRT

<213> A.fumigatus

<400> 30159

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Ile Phe Pro Ser His Arg Trp Arg Ser Pro Asn Leu Arg Thr Arg Arg
1           5           10           15
Thr Ser Arg Leu Ser Thr Ala Arg Pro Pro Ser Ser Cys Ser Thr Arg
          20           25           30
Ala Pro Ile Ala Pro Ser Pro Arg Arg Ser Thr Leu Pro Ser Trp Asp
          35           40           45
Pro Pro Ser Phe Asn Pro Ser Ser Arg Thr Ser Pro Ala Pro Asn Pro
          50           55           60
Pro Lys Ser Ala Gly Arg Ser Ser Pro Pro Ala Ser Pro Ser Pro Arg
65           70           75           80
Thr Gly Thr Ser Ala Pro Pro Thr Pro Gly Ala Gly Ser Cys Thr Asn
          85           90           95
Val Ala Pro Ser Ser Lys Pro Cys Gly Val Leu Ser Ala Ser Ser Ala
          100          105          110
Ser Ala Ser Ser Phe Ser Ala Val Thr Ala Thr Ser Ser Gly Pro Pro
          115          120          125
Ala Ser Leu Thr Arg Cys Trp Ile Thr Pro Ala Arg Ile Ser Ser Arg
          130          135          140
Thr Arg Arg Glu Lys Ala Ser Thr Ser Ser Ala Ser Ala Arg
145          150          155

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<210> 30160

<211> 332

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (14)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30160

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Phe Glu Lys Glu Thr Pro Pro His Leu Ile Pro Ala Ala Xaa Asn Gln
1           5           10           15
Ile Phe His Tyr His Val Ser Val Asn Leu Pro Ile Pro Pro Met Ala
          20           25           30
Phe Ala Lys Pro Glu Asn Thr Thr Tyr Phe Ser Phe Ile His Gly Pro
          35           40           45
Ala Ser Phe Phe Met Leu Asp Thr Arg Thr Tyr Arg Ser Glu Pro Ala
          50           55           60
Gln Val Asn Ser Thr Ile Leu Gly Ser Ala Gln Leu Gln Ser Leu Leu
65           70           75           80
Ala Tyr Leu Ala Arg Pro Glu Ser Ala Glu Val Arg Trp Lys Ile Val
          85           90           95
Ala Ser Ser Val Pro Phe Thr Lys Asn Trp His Val Gly Thr Thr Asp
          100          105          110
Thr Trp Gly Gly Phe Leu His Glu Arg Arg Thr Val Phe Glu Ala Met
          115          120          125
Trp Arg Ala Glu Arg Glu Leu Gly Val Arg Val Val Leu Leu Ser Gly
          130          135          140
Asp Arg His Glu Phe Gly Ala Thr Arg Phe Pro Asp Pro Met Leu Asp
145          150          155          160
Tyr Thr Ser Glu Asp Leu Leu Ala His Thr Ala Gly Glu Gly Val His
          165          170          175
Glu Phe Ser Val Gly Pro Leu Asn Met Phe Tyr Leu Pro Ile Arg Thr

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<210> 30161
<211> 125
<212> PRT
<213> A.fumigatus
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<210> 30162
<211> 152
<212> PRT
<213> A.fumigatus
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<400> 30162
Leu Val Leu Met Arg Met Thr Arg His Ala Ala Ser Thr Thr Ser Gln
1          5          10          15
Ala Asp Ala Ser Lys Ile Leu Ala Gln Gln Arg Leu Asn Arg Pro Val
          20          25          30
Ser Pro His Leu Ser Ile Tyr Arg Pro Gln Ile Thr Trp Ile Gly Ser
          35          40          45
Ser Ala His Arg Ile Thr Gly Ile Ala Leu Ser Gly Ser Leu Tyr Leu

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11398

50		55		60	
Phe	Ala	Thr	Ala	Tyr	Leu
65		70		75	80
Ser	Ala	Ser	Ile	Ala	Ala
		85		90	95
Val	Leu	Ile	Lys	Gly	Thr
		100		105	110
Asn	Gly	Val	Arg	His	Leu
		115		120	125
Gln	Gln	Val	Ile	Lys	Ser
		130		135	140
Ser	Ala	Leu	Thr	Leu	Ala
145		150			

<210> 30163

<211> 61

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (11), (23)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30163

His	Lys	Trp	Ala	Cys	Ser	Ser	Val	Val	Val	Xaa	Leu	Ala	Leu	His	Leu
1				5					10				15		
Ile	Lys	Val	Gln	Val	Leu	Xaa	Leu	Tyr	Met	Arg	Asn	Val	Arg	Gly	Ser
		20						25				30			
Ile	Pro	Arg	Glu	Ser	Ile	Phe	Cys	His	Ala	Tyr	Phe	Cys	Leu	Gly	Leu
		35					40					45			
Phe	Ser	Thr	Phe	Phe	Phe	Val	Trp	Phe	Gly	Ala	Ile	Trp			
		50				55					60				

<210> 30164

<211> 133

<212> PRT

<213> A.fumigatus

<400> 30164

Gln	Glu	Cys	Val	Gly	Arg	Thr	Leu	Ser	Tyr	Pro	Ser	Lys	Leu	Pro	Trp
1				5					10				15		
Glu	Phe	Thr	Ser	Glu	Asn	Pro	Ile	Arg	Ser	Val	Phe	Pro	Leu	Trp	Pro
		20						25				30			
Val	Tyr	Ser	Leu	Pro	Met	Gly	Leu	Leu	Lys	Trp	Phe	Tyr	Val	Glu	Leu
		35					40					45			
Glu	Ile	Gly	Asn	Pro	Ser	Pro	Glu	Val	Ala	Tyr	Tyr	Ser	Leu	Arg	Ala
	50					55					60				
Val	Met	Phe	Leu	Leu	Ser	Phe	Val	Leu	Glu	Asp	Trp	Ala	Ile	Tyr	Glu
65					70				75					80	
Leu	Val	Pro	Leu	Pro	Arg	His	Arg	Arg	Ala	Ala	Val	Val	Leu	Val	Ala
				85					90				95		
Ser	Ser	Tyr	Val	Thr	Trp	Thr	Tyr	Gln	Thr	His	Thr	Phe	Ser	Asn	Ser
		100						105					110		
Leu	Glu	Thr	Leu	Leu	Val	Thr	Trp	Gly	Leu	Val	Leu	Ile	Arg	Arg	Ile
		115					120					125			

Ala Gly Gln Lys Val
130

<210> 30165
<211> 146
<212> PRT
<213> A.fumigatus

<400> 30165
Asp Asp Ile Ser Asp Asp Glu Met Val Arg Cys Cys Lys Asn Ala Asn
1 5 10 15
Ile Tyr Asp Phe Ile Val Ser Leu Pro Asn Gly Phe Asp Thr Leu Val
20 25 30
Gly Ser Lys Gly Asn Met Leu Ser Gly Gly Gln Lys Gln Arg Leu Ala
35 40 45
Ile Ala Arg Ala Leu Leu Arg Asn Pro Arg Ile Leu Leu Leu Asp Glu
50 55 60
Ala Thr Ser Ala Leu Asp Leu Glu Ser Glu Lys Leu Val Gln Ala Ala
65 70 75 80
Leu Asp Thr Ala Ala His Gly Arg Thr Thr Ile Ala Val Ala His Arg
85 90 95
Leu Ser Thr Val Gln Lys Ala Gly Met Ile Cys Val Phe Asn His Gly
100 105 110
Arg Ile Ile Glu Ser Gly Thr His Ser Glu Leu Met Gln Lys Arg Ser
115 120 125
Ala Tyr Phe Ser Leu Ser Ala Ser Arg Leu Trp Ala Glu Cys Asp Ser
130 135 140
Ser Pro
145

<210> 30166
<211> 61
<212> PRT
<213> A.fumigatus

<400> 30166
Thr Asp Asp Ser Thr Leu Leu Arg Arg Lys Cys Ala Phe Phe Leu Val
1 5 10 15
Leu Tyr Phe Arg His Gly Leu Lys Ile Met Ala Asp Gly Ile Asp Ser
20 25 30
Lys Arg Ile Glu Gly Gln Ile Lys Glu Ala Gln Glu Lys Ala Glu Lys
35 40 45
Lys Arg Ala Glu Val Arg Asn Ser Ser Lys Lys Leu Ser
50 55 60

<210> 30167
<211> 176
<212> PRT
<213> A.fumigatus

<400> 30167
Phe Gly Arg Cys Ser Pro Phe Cys His Tyr Arg Asn Tyr Gln His Phe
1 5 10 15
Val Ser Pro Pro Thr Pro Leu Thr Leu Arg Asp Ser Ile Ala Lys Val
20 25 30
Ile Ile Asn Leu Gly Arg Arg Ile Arg Lys Ala Leu Trp Gln Thr Arg

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<210> 30168
<211> 61
<212> PRT
<213> A.fumigatus
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<210> 30169
<211> 399
<212> PRT
<213> A.fumigatus
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<400> 30169															
Ala	Ile	Ser	Met	Val	Leu	Ser	Thr	Pro	Gly	Ile	Leu	Arg	Gly	Glu	Ile
1				5					10					15	
Ala	Gly	Lys	Ser	Ser	Asn	Val	Ala	Phe	Ala	Pro	Xaa	His	Ile	Met	Glu
			20					25					30		
Val	His	Arg	Ala	Glu	Leu	Glu	Ser	Gly	His	Cys	Asp	Val	Ile	Val	Thr
			35				40					45			
Val	Met	Asp	Gly	Arg	Cys	Cys	Pro	Ile	Val	Trp	Pro	Ile	Tyr	Ser	Ala
	50					55					60				
Asn	Arg	Val	Ile	Ala	Asp	Thr	His	Phe	Trp	Gln	Asp	Tyr	Phe	Thr	Glu
65					70					75					80
Ile	Arg	Arg	Leu	His	Tyr	Ala	His	Ile	Ser	Glu	Ala	Asp	Arg	Thr	Leu
				85					90					95	

11401

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Tyr Cys Cys Pro Ile Ile Phe Asp Arg Asn Ser Gln Glu Thr Pro Val
      100      105      110
Leu Val Arg Cys Ala Asp Leu Leu Trp Gly Phe Ala Gly Leu Ser Thr
      115      120      125
Ile Tyr Pro Gly Thr Cys Ile Ser Ile Pro Thr Ser Val Tyr Ser Leu
      130      135      140
Pro Leu Ser Leu Ala Glu Arg Ile Gly Gly Trp Asp Ser Asp Ser Thr
      145      150      155      160
Ala Ile Gly Glu Asp Met His Met Met Leu Lys Cys Tyr Phe Glu Thr
      165      170      175
Ala Gly Asn Val Ile Thr Arg Pro Val Tyr Val Pro Ala Ser Gln Cys
      180      185      190
Asn Val Ala Ser Asp Thr Gly Arg Gly Trp Arg Arg Ser Leu Asn Thr
      195      200      205
Cys Arg Ala Arg Tyr Arg Gln Ala Leu Arg His Met Trp Gly Ala Leu
      210      215      220
Asp Ser Gly Phe Ala Ala Arg Arg Thr Ile Ser Tyr Ile Arg Ser His
      225      230      235      240
Cys Arg Cys Leu Phe Phe Arg Pro Arg His Leu Ala Leu Ile His Leu
      245      250      255
Leu Trp Glu Ala His Phe Leu Pro Cys His Leu Ile Ile Leu Met Val
      260      265      270
Phe Ser Thr Ile Tyr Thr Leu Leu Thr Pro Pro Ala Ser Leu His Pro
      275      280      285
Thr Met Ala Trp Thr Phe Asp Leu Thr Asn Leu Leu Arg Ala Ser Ser
      290      295      300
Phe Ile Gly Met Asn Met Cys Ile Phe Leu Tyr Glu Pro Trp His Ala
      305      310      315      320
Leu Cys Val Arg Thr Arg Lys Thr Asp Met Gln Gln Ala Asn Val Ala
      325      330      335
Asp Ala Gly Phe Ser Glu Arg Ile Trp Trp Ser Pro Ala Gln Leu Val
      340      345      350
Glu Arg Ile Cys Phe Pro Ile Ala Gly Thr Val Phe Gly Gly Ile Pro
      355      360      365
Thr Val His Ala Val Phe Ser His Phe Trp Thr Asp Arg Leu Val Tyr
      370      375      380
Arg Val Thr Lys Lys Pro Thr Phe Ser Val Ala Gly Ala Met Ala
      385      390      395

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<210> 30170

<211> 152

<212> PRT

<213> A.fumigatus

<400> 30170

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Leu Ile Leu Thr Arg Tyr His Leu Asn Gly Trp Ala Pro Asp Asp Pro
1      5      10      15
Leu Trp Ala Glu Gln Ala Gly Glu Tyr Lys Lys Tyr Leu Ser Ala Tyr
      20      25      30
Gln Ala Leu Ala Lys Glu Leu His Ile Cys Leu Val Pro Gly Ser Ile
      35      40      45
Val Glu Arg His Glu Thr Glu Ala Asp Gly Lys Glu Gly Phe Asn Leu
      50      55      60
Tyr Asn Thr Ala Tyr Phe Ile Ser Asn Asp Gly Ser Ile Leu Gly Ser
      65      70      75      80
Tyr Gln Lys Lys Asn Ile Trp His Pro Glu Arg Pro His Leu Thr Ser

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				85					90					95			
Ser	Gly	Glu	Ala	Pro	His	Glu	Val	Phe	Asp	Thr	Pro	Ile	Gly	Lys	Val		
			100					105					110				
Gly	Leu	Leu	Ile	Cys	Trp	Asp	Leu	Ala	Phe	Pro	Glu	Ala	Phe	Arg	Glu		
		115					120					125					
Leu	Ile	Ala	Thr	Gly	Ala	Glu	Val	Val	Ile	Ile	Pro	Thr	Phe	Cys	Glu		
	130					135					140						
Trp	Pro	Val	Ser	Leu	Ser	Val	Val										
145					150												

<210> 30171

<211> 334

<212> PRT

<213> A.fumigatus

<400> 30171

Met	Arg	Leu	Ala	Arg	Met	Leu	Arg	Pro	Leu	Cys	Gly	Glu	Asp	Asp	Pro		
1				5					10					15			
Glu	Leu	Lys	Ala	Ala	Phe	Leu	Pro	Ser	Pro	Leu	Thr	Ser	Ser	Phe	Arg		
		20					25					30					
Pro	Phe	Gln	Ala	Ala	Lys	Glu	Phe	Thr	Pro	Tyr	Leu	Tyr	Glu	Leu	Asn		
	35					40					45						
Glu	Ala	Glu	Leu	Glu	Arg	Thr	Glu	Val	Ser	Ile	Ser	Arg	Asp	Gln	Arg		
	50				55				60								
Arg	Gln	Lys	Arg	Ser	Val	Asn	Arg	Arg	Gly	Gly	Pro	Ala	Leu	Pro	Asp		
65				70					75					80			
Leu	Lys	Asp	Arg	Gln	Arg	Thr	Ile	Arg	Thr	Met	Leu	Val	Ser	Ser	Val		
				85				90					95				
Ile	Pro	Asn	Thr	Ala	Ala	Ser	Ile	Glu	Glu	Ser	Asn	Val	Phe	Lys	Arg		
	100						105					110					
Ser	Gly	Ser	Ser	Arg	His	Arg	Arg	Ala	Ala	Val	Gly	Gln	Arg	Asp	Gly		
	115					120					125						
Gly	Glu	Glu	Ser	Asp	Glu	Ser	Asp	Ser	Asp	Glu	Ser	Ser	Met	Thr	Gly		
	130				135					140							
Ser	Pro	Ala	Ile	Gly	Pro	His	Leu	Ala	Gln	Gly	Thr	Ala	Arg	Thr	Arg		
145				150					155					160			
Gly	Met	Arg	Gly	Ala	Ala	Ser	Ala	Ala	His	Ala	Ala	Leu	Arg	Ala	Ser		
			165				170							175			
Leu	Ala	His	Ser	Ala	Thr	Pro	Glu	Pro	His	His	Glu	Pro	Arg	Val	Ser		
		180					185						190				
Ala	Arg	Arg	Arg	Asp	Tyr	Arg	Glu	Glu	Ser	Ile	Glu	Glu	Gln	Glu	Lys		
	195					200						205					
Leu	Ile	Val	Lys	Leu	Lys	Ile	Ser	Pro	Glu	Lys	Phe	Arg	Gln	Phe	Leu		
	210					215					220						
Ala	Asn	Arg	Pro	Gln	Ser	Leu	Pro	Asn	Ala	Ser	Val	Ser	Thr	Ser	Thr		
225				230						235				240			
Pro	Ala	Ala	Gln	Pro	Val	Ser	Gln	Thr	Gly	Thr	Pro	Gln	Val	Arg	Thr		
			245						250					255			
Pro	Thr	Pro	Ser	Ser	Met	Ala	Pro	Pro	Ser	Gln	Pro	Lys	Pro	Gln	Val		
		260					265					270					
Gln	Val	Pro	Asn	Thr	Ala	Gly	His	Leu	Pro	Gln	Arg	Pro	Val	Gln	Gln		
	275					280						285					
Leu	Gly	Ala	Val	Asp	Ala	Thr	His	Pro	Pro	Gln	Pro	Gly	Val	Pro	Gly		
	290				295					300							
Val	Gly	Thr	Ser	Phe	Leu	Leu	Thr	Leu	Leu	Tyr	Ser	Val	Ser	Phe	Leu		
305					310					315					320		

11403

Ala Leu Ser Arg Cys Pro Cys Leu Gln Phe Ile Cys Val Cys
 325 330

<210> 30172
 <211> 107
 <212> PRT
 <213> A.fumigatus

<400> 30172
 Pro Pro Pro Pro Ala Trp Leu Ser Ala Gly Leu Ala Arg Leu Asn Arg
 1 5 10 15
 Ser His Pro Asn Asp Ser Phe Glu Gly Val Met Arg Tyr Thr Ala Val
 20 25 30
 Asp Thr Glu Thr Met Leu Pro Val Ala Asn Ala Asn Ser Gln Pro Gly
 35 40 45
 His Arg Leu Lys Tyr Gln Tyr Leu Pro Arg Ile Arg Cys His Asp Cys
 50 55 60
 Pro Gly Lys Leu Tyr Thr Pro Gly Pro Gly Met Thr Val Asp Asn Phe
 65 70 75 80
 Glu Val His Leu Arg Asn Arg Gln His Lys Glu Arg Val Glu Glu Arg
 85 90 95
 Leu Ala Lys Ala Ala Ala Asn Gly Gly Ser Ser
 100 105

<210> 30173
 <211> 108
 <212> PRT
 <213> A.fumigatus

<400> 30173
 Gly Arg Ala Phe Val Met Arg Phe Leu Asn Ala Phe Glu Arg Glu Ser
 1 5 10 15
 Lys Val Arg Tyr Thr Leu Asn Arg His Val Cys Asn Leu Ser Lys Phe
 20 25 30
 Tyr Thr Leu Gly Arg Gln Val Ile Ser Asn Ser Ile Asp Lys Tyr Ile
 35 40 45
 Ser Ala Ala Ser Ala Ser His Leu Ala Val His Gln Ser Ile Leu Phe
 50 55 60
 Ser Ala Cys Asp Met Ser Asp Thr Tyr Arg Ser Gln Ile Lys Leu Arg
 65 70 75 80
 Leu Ala Arg Glu Arg Thr Phe Val Met Lys Ala Ser Leu Arg Arg Ile
 85 90 95
 Asp Ser Thr Ala Leu Arg Leu Gly Leu Ser Ile Ala
 100 105

<210> 30174
 <211> 409
 <212> PRT
 <213> A.fumigatus

<400> 30174
 Ser His Ile Met Ser Asn Asp Gly Phe Ser Ser Leu Lys Phe Arg Arg
 1 5 10 15
 Thr Ser Ser Lys Leu Gln Lys Asp Pro Pro Ser Val Ser Ser Arg Ile
 20 25 30
 Leu Arg Ser Gln Gln Ser Asn Thr Ser Leu Lys Arg His Pro Ser Ala

11405

Met Ser Arg Lys Thr Gly Leu Ala Ala Ser Val Thr Ile Ser Ala Gln
 20 25 30
 Arg Asn Tyr Val Lys Thr Ile Asn Pro Met Phe Pro Thr Thr Leu Ile
 35 40 45
 Pro Tyr Lys Arg Ser Ile Asp Ala Phe Ser Thr Phe Cys His Val Lys
 50 55 60
 His Leu Thr Asn Pro
 65

<210> 30176

<211> 82

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (14)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30176

Pro Pro Ser Ile Ile Phe Gly Pro Gly Thr Ile Glu Val Xaa Met Asp
 1 5 10 15
 Gly Leu Pro Glu Tyr Leu Ser Arg Cys Lys Trp Arg Pro Leu Leu Ser
 20 25 30
 Phe Leu Asp Val Ile Asp Ser Lys Ile Ala Gly Gln Thr Tyr Glu Gly
 35 40 45
 Gly Ile Ser Gly Ser Pro Gly Ser Glu Ala His Gly Ala Tyr Ala Phe
 50 55 60
 Cys Ala Leu Ala Cys Leu Cys Leu Leu Gly Arg Pro Glu Val Val Val
 65 70 75 80
 Pro Arg

<210> 30177

<211> 221

<212> PRT

<213> A.fumigatus

<400> 30177

Arg Ser Ala Phe Thr Asp His Leu Ser Thr Val Ala Glu Cys Ile Arg
 1 5 10 15
 Tyr Met Asn Ile Ala Thr Leu Leu Pro Trp Leu Ser Ala Arg Gln Tyr
 20 25 30
 Ala Pro Glu Gly Gly Phe Ser Gly Arg Thr Asn Lys Leu Val Asp Gly
 35 40 45
 Cys Tyr Ser His Trp Val Gly Asn Cys Trp Pro Leu Val Gln Ala Ala
 50 55 60
 Leu Asp Gly Thr Gln Pro Leu Ala Gly Pro Lys Arg Ser Ser Val Gly
 65 70 75 80
 Asn Leu Tyr Ser Arg Glu Gly Leu Thr Arg Tyr Ile Leu Ser Cys Cys
 85 90 95
 Gln Cys Lys Leu Gly Gly Leu Arg Asp Lys Pro Gly Lys Tyr Val Asn
 100 105 110
 Ser Cys Ala Gln Thr Phe Glu Val Glu Val Gln Arg Leu Thr Val Tyr
 115 120 125
 Arg His Pro Asp Ser Tyr His Thr Cys Tyr Ala Leu Thr Gly Leu Ser

130		135		140	
Thr Val Gln Tyr Tyr His Tyr Cys Thr Asp Ser Ser Val Ser Ser Lys					
145		150		155	160
Asp Asp Phe Ser Ser Ala Phe Ser Trp Lys His Asp Pro Asn Phe Ala					
	165		170		175
Ser Asp Gly Gln Gly Ser Asp Ile Gly Val Phe Thr Glu Asn Asp Arg					
	180		185		190
Leu Val Pro Phe His Pro Ile Phe Val Ile Pro His Lys Ser Ala Glu					
	195		200		205
Asp Ile Arg Val Trp Phe Glu Asn Gln Ser Phe Asp Leu					
210		215		220	

<210> 30178

<211> 194

<212> PRT

<213> A.fumigatus

<400> 30178

Leu Ser Leu Leu Ala Phe Glu Leu Cys Ala His Thr Ala Tyr Ser Pro					
1	5		10		15
Ser Met Arg Ala Pro Ser Gly Ser Leu Tyr His Leu Gln Pro Arg Leu					
	20		25		30
Asp Asp Ile Leu Asn Asp Val Ala Pro Phe Pro Tyr Thr Leu Gly Ala					
	35		40		45
Phe Ile Ala Phe Leu Ser Glu Arg Gln Cys Leu Glu Thr Val Glu Phe					
	50		55		60
Leu Leu Glu Thr Lys Arg Tyr Cys Arg Ile Tyr His Trp Leu Glu Gln					
65	70		75		80
Arg Thr Glu Thr Cys Glu Ala Val Arg Lys Ala His Leu Cys Gly Leu					
	85		90		95
Trp Asn Arg Leu Ile Asn Gln Tyr Ile Arg Pro Ser Ala Glu Arg Glu					
	100		105		110
Ile Asn Ile Pro Cys Asp Ile Arg Gln Arg Leu Met Gln Gln Phe His					
	115		120		125
Leu Gln Glu Asp Asp Pro Pro Pro Pro Glu Ile Leu Asp Gln Val Val					
	130		135		140
Cys Asn Val Lys Glu Leu Leu Arg Gly Ser Ile Leu Ile Pro Phe Leu					
145	150		155		160
Arg Arg Ser Ser Ala Thr Ala Arg Val Gln Pro Leu Ser Met Pro Cys					
	165		170		175
Leu Asn Gly Ser Leu Val Phe Tyr His Arg Gly Ser Lys Glu Pro Arg					
	180		185		190
Asn Gly					

<210> 30179

<211> 182

<212> PRT

<213> A.fumigatus

<400> 30179

Thr Trp Lys Trp Glu Arg Phe Ala Gly Trp Thr Phe Arg Asn Ala Phe					
1	5		10		15
Ile Gly Trp Gly Asp Leu Ala Ser Glu Glu Val Pro Ser Thr Arg Asp					
	20		25		30
Gly Thr Ala Gly Val Phe Asp Ser Gly Gln Leu Phe Asp Val Glu Ile					

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      35              40              45
Ser Val Leu Val Arg Leu Ser Ile Thr Val Thr Ile Gly Arg Ile Thr
  50              55              60
Val Asp Asn Val His Arg Gly Ile Leu Gly Ala Ala Thr Ile Leu Ser
  65              70              75              80
Val Val Ala Gly Thr Ile Leu Leu Leu Phe Thr Ile Phe Gln Cys Thr
      85              90              95
Pro Val Asp Tyr Tyr Trp Asn Arg Leu Thr Lys Glu Gly His Cys Met
      100              105              110
Asp Met Asp Leu Leu Val Gly Ile Val Tyr Met Tyr Ser Ala Ala Ala
      115              120              125
Ala Val Cys Asp Phe Thr Ile Gly Leu Leu Pro Ala Phe Met Ile Gly
      130              135              140
Arg Leu Lys Met Asp Arg His Thr Lys Met Ala Val Ile Gly Val Leu
      145              150              155              160
Ser Ile Gly Cys Val Tyr Val Pro Ala Pro Asp Arg Thr Gly Trp Thr
      165              170              175
Leu Thr Phe Arg Gln Cys
      180

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<210> 30180

<211> 230

<212> PRT

<213> A.fumigatus

<400> 30180

```

Ile Ala Arg Ser Ala Gly Ile Ala Gln Lys Leu Lys Ile Gly Val Val
  1              5              10              15
Gln Thr Ala Tyr Ala Asn Gly Ser Ser Thr Glu Tyr Ile Glu Lys Val
      20              25              30
Leu Lys Leu Pro Ser Val Cys Thr Asn Thr Gly Val Lys His Leu His
      35              40              45
His Ala Ala Met Arg Phe Asp Val Gly Val Tyr Phe Glu Ala Asn Gly
      50              55              60
His Gly Thr Ile Thr Phe Ser Glu Asn Ala Leu Lys Thr Ile Lys Asn
      65              70              75              80
Thr Glu Pro Gln Ser Pro Ala Gln Gln Arg Ser Leu Glu Cys Leu Gln
      85              90              95
Ala Leu Thr Asp Leu Ile Asn Gln Ala Val Gly Asp Ala Ile Ser Asp
      100              105              110
Met Leu Leu Val Glu Ala Ile Leu Ala His Lys Gly Trp Thr Pro Lys
      115              120              125
Glu Trp Leu Ala Thr Tyr Thr Asp Leu Pro Ser Arg Leu Val Arg Val
      130              135              140
Glu Val Ala Asp Arg Ser Ile Phe Lys Ala Tyr Asp Ala Glu Arg Lys
      145              150              155              160
Leu Glu Ser Pro Pro Gly Leu Gln Ala Lys Ile Asp Ser Leu Gln Ser
      165              170              175
Arg Tyr Asn Lys Gly Arg Ser Phe Ala Arg Ala Ser Gly Thr Glu Asp
      180              185              190
Ala Val Arg Val Tyr Ala Glu Ala Ala Ser Arg Ser Glu Ala Asp Asp
      195              200              205
Leu Ala Thr Arg Val Ala Asn Ala Val Arg Asp Ala Gly Thr Val Lys
      210              215              220
Glu Ile Leu Gln Ala Ser
      225              230

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<210> 30181
 <211> 172
 <212> PRT
 <213> A.fumigatus

<400> 30181

```

Asp Ala Val Phe Phe Pro Ala Val Glu Ile Leu Leu Arg Ser Leu Gly
1          5          10          15
Phe Gly Ala Ile Pro Leu His Gly Gln Leu Ser Gln Ser Ala Arg Leu
          20          25          30
Gly Ala Leu Gly Lys Phe Arg Ser Arg Ser Arg Asp Ile Leu Val Ala
          35          40          45
Thr Asp Val Ala Ala Arg Gly Leu Asp Ile Pro Ser Val Asp Val Val
          50          55          60
Leu Asn Phe Asp Leu Pro Thr Asp Ser Lys Thr Tyr Val His Arg Val
          65          70          75          80
Gly Arg Thr Ala Arg Ala Gly Lys Ser Gly Val Ala Ile Ser Phe Val
          85          90          95
Thr Gln Tyr Asp Val Glu Ile Trp Leu Arg Ile Glu Gly Ala Leu Gly
          100          105          110
Lys Lys Leu Lys Glu Tyr Glu Leu Glu Lys Asp Glu Val Met Val Leu
          115          120          125
Ala Glu Arg Val Gly Glu Ala Gln Arg Gln Ala Ile Met Glu Met Lys
          130          135          140
Asn Phe Asp Glu Lys Arg Gly Thr Lys Ala Lys Lys Phe Gly Lys Gly
          145          150          155          160
Lys Arg Ser Arg Asp Glu Met Asp Gln Glu Glu Gly
          165          170

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<210> 30182
 <211> 162
 <212> PRT
 <213> A.fumigatus

<400> 30182

```

Pro Arg Ala Asn Ala Arg Ile Val Ala Pro Val Glu Lys Thr Asp Val
1          5          10          15
Cys Ala Gly Ile Gly Gly Asn Ile Leu Gln Ala Lys Val Ala Leu Arg
          20          25          30
Lys Ala Lys Pro Ala Gly Gln Phe Gln Leu Lys Pro Asp Ser Val Leu
          35          40          45
Asp Leu Ile Gly Asp Leu Thr Val Gln Asp Leu Pro Gly Val Gly Tyr
          50          55          60
Ser Leu Gly Ala Lys Leu Glu Glu Leu Gly Val Lys Leu Val Lys Asp
          65          70          75          80
Val Arg Gly Val Ser Arg Glu Lys Leu Ile Asn His Leu Gly Pro Lys
          85          90          95
Thr Gly Leu Lys Ile Trp Glu Tyr Ala Arg Gly Ile Asp Arg Thr Glu
          100          105          110
Val Gly Asn Glu Val Leu Arg Lys Ser Val Ser Ala Glu Val Asn Trp
          115          120          125
Gly Ile Arg Phe Val Asn Gln Thr Gln Ala Glu Asp Phe Val Lys Ser
          130          135          140
Leu Cys Glu Glu Leu His Arg Arg Leu Ser Asp Asn Leu Val Lys Gly
          145          150          155          160

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Asn Ser

<210> 30183

<211> 346

<212> PRT

<213> A.fumigatus

<400> 30183

Pro Gly Gln Arg Gln Gln Leu Thr Leu Lys Val Met Arg Arg Ala Ala
 1 5 10 15
 Asp Ala Pro Leu Glu Pro Val Lys His Leu Gly His Gly Lys Cys Asp
 20 25 30
 Val Phe Asn Arg Ser Val Val Leu Gly Ile Ala Thr Asn Ala Pro Glu
 35 40 45
 Val Leu Ala Lys Glu Ala Ile Ser Met Leu Arg Ser Phe Gly Ile Thr
 50 55 60
 Pro Gly Asp Leu Arg Gly Leu Gly Val Gln Met Thr Lys Leu Glu Pro
 65 70 75 80
 Leu Lys Leu Gly Ala Thr Asn Lys Pro Glu Gly Ser Gln Gln Gln Leu
 85 90 95
 Lys Phe Lys Ala Ser Pro Ala Arg Lys Ser His Glu Gln Val Arg Asp
 100 105 110
 Pro Asp Asp Leu Asp Ser Pro Arg Lys Ala Asp Ala Ala Val Ser
 115 120 125
 His Gly Pro Thr Leu Asn Asp Asp Ser Tyr Lys Pro Leu Asn Ile Ser
 130 135 140
 Gly Thr Gln Phe Ile Met Pro Ser Gln Ala Asp Pro Lys Val Ile Ala
 145 150 155 160
 Glu Leu Pro Ser Asp Ile Arg Ser Lys Leu Met Ser Gln Gly Lys Gly
 165 170 175
 Arg Gln Ala Ser Arg Ser Thr Ser Pro Cys Pro Ala Ala Arg Arg Thr
 180 185 190
 Gln Thr Ser Thr Ala Thr Ala Leu Pro Pro Gln Ser Gln Leu Asp Pro
 195 200 205
 Asp Thr Leu Ala Ala Leu Pro Glu Asp Val Arg Ala Glu Ile Leu Gly
 210 215 220
 Tyr Tyr Gly Arg Thr Ser Ser Thr Pro Glu Pro Gln Pro Ala Val Ser
 225 230 235 240
 Thr Val Pro Ser Ser Arg Pro Ala Ser Ser Gly Ser Leu Gly Ile Lys
 245 250 255
 Lys Ser Ser Thr Pro Thr Lys Lys Arg Arg Gly Arg Pro Ser Thr Lys
 260 265 270
 Gly Thr Gly Asn Met Thr Leu Thr Gln Ser Asn Phe Ile Ile Ala Arg
 275 280 285
 Ser Thr Leu Thr Pro Val Asn Thr Glu Glu Gln Ala Ser Ser Arg Gln
 290 295 300
 Pro Ser Pro Ser Pro Asp Pro Glu Ile Ser Ala Asp Phe Leu Ala Ala
 305 310 315 320
 Leu Pro Glu Asp Ile Arg Arg Glu Val Leu Glu Glu Gln Lys Arg Ala
 325 330 335
 Arg Lys Leu Gln Arg Ser Gly Leu Gln Leu
 340 345

<210> 30184

<211> 73

<212> PRT

<213> A.fumigatus

<400> 30184

```

Pro Glu Ile Val His Leu Cys Ile Arg Arg Val Ala Arg Ala Glu Trp
1           5           10           15
Ala Leu Leu Asn Glu Glu Ile Ser Val Arg Glu Cys Ala Tyr Leu Arg
          20           25           30
Asp Ala Asn Asp Val Pro Gln Gln Val Lys Asp Met Phe Leu Arg Ile
          35           40           45
Ser Phe Gly Ala Asp Glu Val Ile Leu Glu Ile Leu Phe Leu Ile Leu
          50           55           60
Phe Met Val Thr Arg Thr Val Val Ala
65           70

```

<210> 30185

<211> 131

<212> PRT

<213> A.fumigatus

<400> 30185

```

Leu Val Ala Val His His Leu His Leu Ser Asp Lys His Thr Leu Leu
1           5           10           15
Gln Ile Ser Leu Arg Ser Gly Glu Pro Ile Gln Arg Glu Gln Leu Phe
          20           25           30
Glu Tyr Thr Asn Gly Arg Phe Leu Val Asn Glu Lys His Glu Met Ser
          35           40           45
Lys Arg Tyr Ala Lys Phe Asp Leu Asp Ala Leu Cys Ser Leu Val Ser
          50           55           60
Ser Leu Pro Ser Val Ser Ser Pro Ile Ser Lys Val Glu Lys Met Glu
65           70           75           80
Gly Gly Phe Asn Lys Thr Leu Leu Met Thr Ala Glu Asn Arg Lys Gly
          85           90           95
Val Leu Ala Lys Met Pro Cys Pro Ala Val Val Pro Ser Arg Tyr Ser
          100          105          110
Thr Ala Ser Glu Val Ala Thr Phe Glu Tyr Gly Lys Leu Cys Val Thr
          115          120          125
Val Pro Leu
          130

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<210> 30186

<211> 72

<212> PRT

<213> A.fumigatus

<400> 30186

```

Asn Met Thr Phe Leu Pro Val Lys Ser Leu Thr Ser Met Pro Val Pro
1           5           10           15
Glu Val Leu Thr Trp Ser Cys Asp Ala Leu Asn Pro Val Gly Asn Glu
          20           25           30
Tyr Ile Val Met Glu Lys Ala Lys Gly Arg Gln Leu Val Glu Val Trp
          35           40           45
Gly Glu Met Asp Gln Ala Gln Lys Phe Lys Leu Ile Gln Thr Leu Ser
          50           55           60
Gly Trp Lys Ala Ser Trp Pro Gln
65           70

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<210> 30187
 <211> 261
 <212> PRT
 <213> A.fumigatus

<400> 30187

Arg Gly Ser Phe Arg Pro Arg Gly Glu Asp Ile Ala Asp Leu Ala Ala
 1 5 10 15
 Ser Val Val Tyr Val Pro Ser Glu Val Leu Lys Thr Arg Leu Gln Leu
 20 25 30
 Gln Gly Arg Tyr Asn Asn Pro Tyr Phe Asn Ser Gly Tyr Asn Tyr Arg
 35 40 45
 Ser Thr Ser Asp Ala Leu Arg Thr Ile Ile Arg Gln Glu Gly Phe Ser
 50 55 60
 Ala Leu Phe Tyr Gly Tyr Lys Ala Thr Ile Phe Arg Asp Leu Pro Phe
 65 70 75 80
 Ser Ala Leu Gln Phe Ala Phe Tyr Glu Gln Glu His Arg Leu Ala Lys
 85 90 95
 Glu Trp Val Gly Ser Arg Asp Ile Gly Leu Gly Leu Lys Ile Leu Thr
 100 105 110
 Ala Val Thr Ala Gly Gly Met Ala Gly Val Ile Thr Trp Pro Met Asp
 115 120 125
 Val Val Lys Thr Arg Ile Gln Thr Gln Gln Asn Pro Asp Ala Val Lys
 130 135 140
 Pro Ser Ser Ala Ser Ser Lys Gly Pro Val Glu His Ala Ser Thr Lys
 145 150 155 160
 Glu Thr Leu Arg Gln His Thr Ser Asn Gln Thr Thr Ser Ser Leu Arg
 165 170 175
 Thr Arg Ser Arg Pro Ile Ser Thr Gly Gly Ala Ser Thr Ser Val Arg
 180 185 190
 Pro Pro Gly Thr Pro Arg Leu Asp Thr Ser Ser Phe Phe Thr Gly Leu
 195 200 205
 Lys Val Ile Tyr Gln Thr Glu Gly Phe Ser Gly Trp Phe Arg Gly Val
 210 215 220
 Gly Pro Arg Gly Val Trp Thr Ser Ile Gln Ser Gly Thr Met Leu Val
 225 230 235 240
 Met Tyr Gln Tyr Leu Leu Lys Gln Leu Glu Ala Trp Gln Thr Thr Gly
 245 250 255
 Glu Thr Gly Pro Leu
 260

<210> 30188
 <211> 95
 <212> PRT
 <213> A.fumigatus

<400> 30188

Ser Val Arg Ser Tyr Ala Asp Tyr Ser Asn Lys Asp Ala Leu Ala Ile
 1 5 10 15
 Ala Leu Asn Lys Tyr Leu Gln Asp Asn Gln Thr Ile Leu Ile Asn Val
 20 25 30
 Pro Glu Leu Lys Glu Tyr Trp Thr Arg Ala Ser Ser Thr Ser Pro Ala
 35 40 45
 Arg Thr Ser Pro Val Lys Lys Ala Val Gly Val Asp Val Thr Pro Ala
 50 55 60

11412

Pro Lys Lys Val Ala Pro Ala Gly Arg Lys Ala Thr Pro Gly Thr Thr
 65 70 75 80
 Arg Arg Arg Gln Thr Gln Pro Lys Lys Glu Glu Val Glu Val Thr
 85 90 95

<210> 30189

<211> 400

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (308)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30189

Trp Ser Glu His His Gln Gly Phe Asn Ser Ser Ile Gly Thr Tyr His
 1 5 10 15
 Lys Ile Gln Ser Asn Ile Gln Ser Ser Gln Asn Arg Val Arg Asn Leu
 20 25 30
 Lys His Ala Leu Glu Asp Ala Lys Ala Gly Leu Leu Tyr Thr Lys Pro
 35 40 45
 Glu Leu Lys Gly Leu Ala Thr Ser Ser Gln Lys Tyr Asp Asp Leu Ile
 50 55 60
 Gln Leu Leu Ser Gln Ile Gln Glu Ile Gln Ser Leu Pro Glu Lys Leu
 65 70 75 80
 Glu Ser Arg Ile Ser Asp Lys Arg Phe Leu Gly Ala Val Glu Val Leu
 85 90 95
 His Asp Ala Phe Arg Leu Leu Arg Arg Ser Glu Leu Glu Asn Ile Gly
 100 105 110
 Ala Leu Ala Asp Ile Arg Ala Tyr Phe Ala Asn Gln Glu Ile Ser Leu
 115 120 125
 Thr Asp Ile Leu Ile Glu Glu Leu His Asp His Leu Tyr Leu Lys Ser
 130 135 140
 Pro Tyr Cys Ser Asn Arg Trp Lys Pro Pro Ala Gln Glu Gly Glu Val
 145 150 155 160
 Gly Thr Ala Asn Ala Ser Ser Trp Thr Gly Val Ala Thr Trp Glu Lys
 165 170 175
 Pro Val Tyr Ala Phe Leu Gly Lys Leu Asp Ala Thr Thr Pro Leu Val
 180 185 190
 Glu Asp Ala Ser Arg Asn Pro Glu Ala Asp Thr Phe Tyr Tyr Ile Arg
 195 200 205
 Leu Leu Ile Glu Ala Leu Asn Lys Met Gly His Leu Asp Ile Ala Val
 210 215 220
 Asp Arg Ile Glu Gln Arg Leu Pro Val Glu Leu Phe Ala Val Val Asp
 225 230 235 240
 Lys Thr Asn Ala Glu Val Asp Ala Arg His Pro Asn Leu Gly Arg Gly
 245 250 255
 Leu Ser Ser Arg Asp Gly Lys Thr Ser Leu Pro Thr Glu Ala Ile Glu
 260 265 270
 Lys Arg Gly His Val Leu Thr Glu Phe Leu Trp Thr Leu Tyr Ala Lys
 275 280 285
 Phe Glu Ala Ile Ala Glu Gly His Arg Val Leu His Asp Ala Thr Ala
 290 295 300
 Gly Ile Val Xaa Arg Glu Gly Ile Pro Lys Thr Val His Leu Gln Val
 305 310 315 320

11413

Val Ser Lys Ser Cys Gly Asn Ser Ile Lys Met Lys Ser Val Ala Pro
 325 330 335
 Pro Arg Phe Gly Leu Asn Ala Ser Gln Cys Ser Leu Ser His Ser Phe
 340 345 350
 Tyr Arg Phe Val Pro Cys Cys Thr Ile Thr Trp Pro Pro Met Glu Ser
 355 360 365
 Pro Pro Leu Asp Leu Glu Lys Lys Lys Pro Met Leu Asn Val Lys Phe
 370 375 380
 Met Leu Val Ile Gly Ile Gly Thr Arg Cys Val Cys Leu Pro His Val
 385 390 395 400

<210> 30190

<211> 130

<212> PRT

<213> A.fumigatus

<400> 30190

His Arg Ala Ser Ala Leu Leu Asp Ser Leu Arg Gln Val Ala Ala Val
 1 5 10 15
 Met Asn Asp Ala Ser Glu Pro His Arg Ala Ala Tyr Gln Glu Thr Trp
 20 25 30
 Asp Phe Leu His Asp Thr Ile Ser Leu Trp Pro Leu Gly Gly Pro Arg
 35 40 45
 Gly Gly Ile Ile Ser Trp Pro Val His Ile Gly Glu Asp Tyr Ile Ala
 50 55 60
 Leu Leu Lys Gln Gly Asp Trp Ile Ala Arg Ile Leu Phe Leu His Tyr
 65 70 75 80
 Gly Val Gly Met His Leu Leu Ser Asp Lys Trp Tyr Val Ser Asp Trp
 85 90 95
 Gly Arg Arg Leu Val Ala Ala Val Leu Gln Pro Leu Gln Asp Ile Pro
 100 105 110
 Pro Ile Trp Ala Glu Thr Ile Thr Trp Ile Arg Gln Ala Val Asp Leu
 115 120 125
 Asn Ser
 130

<210> 30191

<211> 70

<212> PRT

<213> A.fumigatus

<400> 30191

Ala Pro Ala Leu Glu Pro Asp Gln Ile Asn Gln Leu Ile Val Ile Pro
 1 5 10 15
 Gly Met Tyr His Ser Gly Ile Gly Gly Gly Phe Met Leu Val Arg
 20 25 30
 Ala Pro Asn Gly Ser Phe Glu Phe Ile Asp Phe Arg Glu Thr Ala Pro
 35 40 45
 Ala Ala Ala Phe Glu Glu Met Phe Asn Asn Ser Thr His Ala Ser Thr
 50 55 60
 Ile Gly Gly Leu Ala Arg
 65 70

<210> 30192

<211> 212

<212> PRT

<213> A.fumigatus

<400> 30192

```

Asp Leu Leu Tyr Pro Ala Glu Leu Arg Arg Arg Thr Asn Val Ser Leu
1      5      10      15
Ser Gly Val Pro Gly Glu Leu Arg Gly Leu Glu Tyr Leu His Lys Lys
      20      25      30
Tyr Gly Ser Leu Pro Trp Ser Val Leu Val Gln Pro Ala Ile Lys Thr
      35      40      45
Ala Arg Glu Gly Phe Pro Val Gly Gln Asp Leu Val Lys Tyr Met Lys
      50      55      60
Ser Ala Val Gly Asp Gly Ile Asp Phe Leu Val Glu Asn Pro Thr Trp
65      70      75      80
Ala Leu Asp Phe Ala Pro Asn Gly Thr Arg Leu Gly Leu Gly Asp Thr
      85      90      95
Met Thr Arg Arg Arg Tyr Ala Asp Thr Leu Glu Thr Ile Ala Asn Lys
      100     105     110
Gly Pro Ala Ala Phe Tyr Ser Gly Pro Ile Ala Glu Thr Met Ile Asn
      115     120     125
Ala Leu Gln Ala Ala Asn Gly Thr Met Thr Met Glu Asp Leu Arg Asn
      130     135     140
Tyr Thr Val Ala Ile Arg Asn Val Ser Gln Ile Asp Tyr Arg Gly Tyr
145     150     155     160
Gln Ile Thr Ser Thr Ser Ala Pro Ser Ser Gly Thr Val Ala Leu Ser
      165     170     175
Ile Leu Lys Ile Leu Ser Thr Tyr Asp Gly Phe Phe Ala Pro Gly Asn
      180     185     190
Val Asn Leu Ser Thr His Arg Leu Asp Glu Ala Met Arg Phe Gly Tyr
      195     200     205
Gly Glu Val Cys
      210

```

<210> 30193

<211> 65

<212> PRT

<213> A.fumigatus

<400> 30193

```

Pro Glu Thr Lys Arg Thr Asn Leu Gly Asp Pro Leu Phe Val Ala Gly
1      5      10      15
Leu Asp Glu Phe Glu Glu Asn Met Leu Lys Gln Ser Thr Ile Asp Glu
      20      25      30
Ile Arg Arg Asn Ile Ser Asp Tyr Arg Thr Gln Asn Val Ser Ala Tyr
      35      40      45
Asn Pro Gln Gly Ile Glu Ser Leu Asn Glu Cys Glu Tyr Arg Ser Ser
      50      55      60
Ser
65

```

<210> 30194

<211> 72

<212> PRT

<213> A.fumigatus

<400> 30194

```

Met Ser Ala Asn Ile Val Arg Leu Leu Glu Val Leu Thr Asp Lys Pro

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11415

1		5		10		15									
Ser	Ser	Gly	Thr	Ser	His	Val	Val	Ala	Ala	Asp	His	His	Gly	Leu	Ala
		20						25					30		
Ile	Ser	Leu	Val	Thr	Thr	Ile	Asn	Thr	Leu	Phe	Gly	Ser	Gln	Leu	Met
		35					40					45			
Val	Pro	Glu	Thr	Gly	Ile	Phe	Ile	Asn	His	Glu	Leu	Glu	Arg	Thr	Cys
		50				55					60				
Cys	Thr	Gly	Pro	Pro	Pro	Phe	His								
65						70									

<210> 30195

<211> 92

<212> PRT

<213> A.fumigatus

<400> 30195

Phe	Leu	Phe	Phe	Ser	Arg	Val	His	Phe	Tyr	Ile	Leu	Phe	Leu	Asn	Asn
1				5					10					15	
Leu	Phe	Pro	Leu	Lys	Asp	Leu	Phe	Ser	Asp	Arg	Leu	Ser	Leu	Val	Ile
		20						25					30		
Ser	Leu	Leu	Phe	Ile	Leu	Ser	Leu	Phe	Trp	Cys	Cys	Leu	Cys	Gly	Ala
		35					40					45			
Gly	His	Leu	Val	Ser	Ser	His	Leu	Val	Pro	Phe	Gly	Phe	Val	Ser	Ile
	50					55					60				
Ile	Thr	Ser	Ser	Leu	Ser	His	Ser	Leu	Ser	Gly	Asn	Asn	Leu	Ser	Asp
65					70				75					80	
Ile	Phe	Val	Ser	Ser	Gln	Ser	Phe	Gln	Gly	Val	Leu				
				85					90						

<210> 30196

<211> 75

<212> PRT

<213> A.fumigatus

<400> 30196

Pro	Phe	His	Ser	Ala	Gly	Gln	Leu	Ser	Ile	Ser	Leu	Leu	Gln	Gln	Asp
1			5						10					15	
Gln	Arg	Arg	Pro	Ser	Ser	Gln	Tyr	Leu	Tyr	Glu	Cys	Ser	Lys	Val	Tyr
		20						25					30		
Val	Val	Pro	His	Gly	Phe	Phe	Gly	Ser	Asp	Leu	Gln	Leu	Asn	Ile	Thr
		35					40					45			
Phe	Cys	His	Thr	Gln	Pro	Gly	Thr	Phe	Phe	Ala	Tyr	Ala	Tyr	Tyr	Arg
	50					55					60				
Leu	Cys	Ile	Leu	Gly	Lys	Ser	Ser	Ser	Pro	Phe					
65					70				75						

<210> 30197

<211> 61

<212> PRT

<213> A.fumigatus

<400> 30197

Thr	Ser	Ser	Val	Tyr	Arg	Val	Pro	Asn	Gly	Leu	Asn	Leu	Phe	Ile	Tyr
1			5						10					15	
Phe	Gln	Pro	Tyr	Thr	Ile	Gly	Ala	Arg	Leu	Ser	Ser	Arg	Asn	Ala	Val
		20						25					30		

11416

His Val Met Ala Thr Pro Arg Ala Ser Arg Lys Ser Ser Met Ala Leu
 35 40 45
 Ile Ser Val Asn Leu Gly His His Ile Tyr Ile Cys Tyr
 50 55 60

<210> 30198
 <211> 311
 <212> PRT
 <213> A.fumigatus

<400> 30198
 Trp Cys Ile Tyr Asp Gln Glu Ile Phe Leu Pro Gly Val Gln Leu Leu
 1 5 10 15
 Trp Phe Cys Pro Leu Ile Tyr Pro Gln Thr Met Leu Gln Tyr Lys Asn
 20 25 30
 Gly Ile Tyr Pro Ile Leu Ala His Glu Ile Gly Glu Gly Leu Pro Val
 35 40 45
 Leu Ile Ile His Gly Trp Lys Met Glu Ala Arg Val Glu Glu Leu Asp
 50 55 60
 Phe Glu Pro Ile Phe Ser Thr Ile Pro Gly Leu Arg Arg Ile Tyr Val
 65 70 75 80
 Asp Leu Pro Gly Met Gly Thr Thr Pro Ala Lys Asn Val Lys Asp Leu
 85 90 95
 Asp Asp Ile Tyr Leu Arg Leu Val Gln Phe Ile Asp Ser Arg Leu Gly
 100 105 110
 Lys Ser Arg Phe Leu Leu Val Gly Ser Ser Cys Gly Gly Tyr Leu Ala
 115 120 125
 Arg Ala Ile Ala Gln Lys Tyr Ser Asn Gln Val Asp Gly Leu Leu Leu
 130 135 140
 Arg Val Pro Leu Ile Glu Pro Lys Asp Ser Met Arg Asp Leu Asp Ala
 145 150 155 160
 Phe Lys Pro Leu Val Ala Asn Glu Gln Leu Met Ser Asp Met Ser Ala
 165 170 175
 Glu Asp Lys Thr Leu Leu Gly Asp Val Leu Val Gln Thr Pro Ala Tyr
 180 185 190
 Val Lys Thr Leu Lys Ala Lys Tyr Asp Glu Val Tyr Leu Pro Ala Glu
 195 200 205
 Lys Lys Ala Asp Ser Gln Val Leu Asp Pro Ile Arg Ala Asp Pro His
 210 215 220
 Arg Tyr Gln Leu Ser Phe Ser Val Asp Asn Glu Gly Ala Lys Phe Phe
 225 230 235 240
 Ala Pro Thr Leu Ile Ile Cys Gly Arg Gln Asp Glu Ser Val Gly Tyr
 245 250 255
 Arg Asp Ser Leu Arg Leu Leu Glu Leu Tyr Pro Arg Ser Thr Tyr Val
 260 265 270
 Val Leu Asp Arg Gly Thr His Gly Leu Pro Ile Asp Glu Thr Ser Val
 275 280 285
 Phe Glu Ala Leu Val Arg Asp Trp Ile Asn Arg Val Asn Glu Trp Arg
 290 295 300
 Gly Arg Thr Asp Arg Glu Val
 305 310

<210> 30199
 <211> 63
 <212> PRT
 <213> A.fumigatus

<400> 30199

Asn	Leu	Thr	Phe	Lys	Asp	Lys	Leu	Arg	Ile	Tyr	Ile	Leu	Ser	Ile	Tyr
1				5					10					15	
Arg	Tyr	Thr	Phe	Asn	Ser	Cys	Asn	Ile	Leu	Ser	Ser	Phe	Arg	Phe	Ser
			20					25					30		
Lys	Ile	Arg	Asp	Phe	Pro	Phe	Leu	Phe	Tyr	Thr	Asn	His	Leu	Pro	Arg
		35					40					45			
Phe	Thr	Phe	Thr	Arg	Leu	Glu	Ser	Ile	Phe	Ile	Lys	Val	Ile	Tyr	
	50					55					60				

<210> 30200

<211> 182

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (2)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30200

Arg	Xaa	Val	Pro	Thr	Arg	Lys	Ser	Pro	Gly	Val	Leu	Phe	Ser	Asn	Arg
1				5					10					15	
Phe	Ser	Val	Asn	Ala	Phe	Ala	Leu	Lys	Ala	Leu	Cys	Leu	Ser	Ser	Gly
			20					25					30		
Cys	Thr	Leu	Ala	Ser	Leu	Phe	Gln	Ala	Cys	Trp	Ala	Val	Leu	Leu	Gln
		35					40					45			
Cys	Tyr	Val	Gly	Ser	Asp	Asp	Val	Leu	Phe	Gly	Tyr	Ile	Ala	Ser	Asn
	50					55					60				
Arg	Gly	Leu	Pro	Ile	Arg	Gly	Ile	Asp	Arg	Met	Val	Gly	Leu	Leu	Ile
65					70					75					80
Ser	Ile	Leu	Pro	Arg	Arg	Val	Arg	Leu	Ser	Pro	Ser	Ala	Ser	Ser	Val
				85					90					95	
Ser	Glu	Gln	Val	Arg	Ala	Ile	Ala	Lys	His	Ile	His	Glu	Gln	Leu	His
			100					105					110		
Asp	Asp	Leu	Glu	His	His	Met	Ser	Ala	Gly	Asn	Thr	Met	Ala	Glu	Val
	115						120					125			
Ile	Gln	Arg	Gly	Arg	Cys	Ile	Glu	Glu	Leu	Leu	Phe	Pro	Phe	Asp	Thr
	130					135					140				
Ala	Ile	Asn	Phe	Arg	Ser	Gln	Pro	Ser	Ala	Ala	Val	Asn	Ser	Val	Ser
145					150					155					160
Ser	Asp	Pro	Thr	Ser	Pro	Leu	Gln	Phe	Ala	Asp	Gly	Gln	Asp	Pro	Met
				165					170					175	
Pro	Val	Ser	His	Pro	Pro										
				180											

<210> 30201

<211> 190

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (160)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30201

```

Ser Tyr Phe Asn Pro Ser Ile Ser Ser Cys Phe Ser His Phe Ser Val
1          5          10          15
Trp Ile His Ser Arg Gln Lys Val Val Ser Ala Asp Arg Leu Thr Ser
          20          25          30
Pro Thr Ser Phe Arg Ser Leu Gly Lys Ala Thr Gln Leu Thr Pro Asn
          35          40          45
Pro Arg Arg Ala His Gln His Pro Gln Cys Leu Pro Ser Arg Pro Ile
          50          55          60
Pro Glu Arg Asp Arg Leu Arg Tyr Leu Gly Pro Leu Thr Arg Gln Pro
65          70          75          80
Ser His Arg Pro His Pro Ala Ala Pro Arg Pro Ala Cys Pro Arg Pro
          85          90          95
Asn Arg Arg Ser Pro Ile Arg Arg Arg Gly Arg Arg Arg Lys Lys Pro
          100          105          110
Arg Pro Arg Cys Gly Glu Gly Ala Gly Ala Thr His Gly Gly Arg Cys
          115          120          125
Arg Val Cys Thr Pro Ala Asp Thr Gly Thr Gly Gly Glu Leu Ser Gly
          130          135          140
Glu Cys Leu Gly Ala Gly Pro Gly Gly Asp Gly Ala Ala Gly Ser Xaa
145          150          155          160
Pro Glu Arg Gly Gly Ala Gly Gly Leu Asp Glu Ala Ser Gly Glu Phe
          165          170          175
Gly Gly Val Ser Phe Tyr Leu Ser Phe Ile Gln Pro Phe Ser
          180          185          190

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<210> 30202

<211> 133

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (114)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30202

```

Leu Leu Ile Pro Ala Glu Leu Ile Asn Ile His Asn Ala Phe His Gln
1          5          10          15
Gly Gln Tyr Gln Asn Val Ile Asp Phe Asp Thr Ser Ala Leu Ser Pro
          20          25          30
Asp Asn His Leu Thr Ala Arg Ile Leu Gln Leu Arg Ala Gln Leu Ala
          35          40          45
Leu Gly Gln Thr Ala Glu Val Leu Ser Ala Val Glu Gly Glu Glu Glu
          50          55          60
Lys Asn Pro Asp Leu Ala Ala Val Lys Ala Leu Ala Gln Leu Thr Ala
65          70          75          80
Gly Asp Ala Glu Ser Ala Leu Gln Leu Thr Gln Glu Leu Ala Glu Asn
          85          90          95
Tyr Pro Glu Asn Ala Ser Val Gln Val Leu Gly Gly Thr Val Leu Gln
          100          105          110
Ala Xaa Gly Arg Ser Glu Glu Ala Leu Ala Val Leu Thr Lys His Gln
          115          120          125
Gly Asn Leu Glu Ala
          130

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<210> 30203
 <211> 152
 <212> PRT
 <213> A.fumigatus

<400> 30203
 Arg Ser Leu Gly Thr Val Leu Leu Leu Ser Ser Asn Arg Asn Glu Pro
 1 5 10 15
 Leu Gly Leu Arg His Gln Gln Arg Arg Thr Ser Ala Ser Ser Leu Pro
 20 25 30
 Asn Val Ile Pro Gly Ser Arg Ser Ser Arg Thr Thr Ala Pro Gln
 35 40 45
 Pro Lys Lys Thr Ala Asp Gly Arg Ile Val Leu Asn Pro Gln Pro Asp
 50 55 60
 Asp Ser Val Asn Asp Pro Leu Asn Trp Pro Met Trp Arg Arg Asp Ala
 65 70 75 80
 Ala Leu Leu Ser Leu Gly Phe Tyr Cys Leu Met Gly Gly Gly Met Thr
 85 90 95
 Pro Ile Leu Ala Ala Gly Phe Asn Gln Val Ser Glu Ser Tyr Gly Val
 100 105 110
 Ser Thr Gln Lys Val Ala Tyr Thr Thr Gly Leu Tyr Met Leu Gly Leu
 115 120 125
 Gly Val Gly Ser Val Ile Met Ser Pro Thr Ala Ile Leu Trp Gly Lys
 130 135 140
 Arg Pro Val Tyr Leu Leu Gly Ala
 145 150

<210> 30204
 <211> 86
 <212> PRT
 <213> A.fumigatus

<400> 30204
 Gly His His Gly Cys Leu Gly Trp Asp Pro Ser Asp Leu Gln Gly Gln
 1 5 10 15
 Ala Ser Gly Tyr Val Ala Ile Ser Asp Leu Ser Arg Leu Thr Tyr Ser
 20 25 30
 Asn Asp Val Ala Ala Ala Gln Leu Gln Pro Tyr Val Glu Ser Ile Phe
 35 40 45
 Gln Leu Leu His Ile Ile Ser Gln Asp Met Ser Arg Ser Glu Gly Leu
 50 55 60
 Met Arg Ala Ser Met Gly Val Leu Gly Tyr Gly Phe Ser Val Ser Ser
 65 70 75 80
 Phe Phe Leu Pro Ile Phe
 85

<210> 30205
 <211> 193
 <212> PRT
 <213> A.fumigatus

<400> 30205
 Gly Ala Gln Leu Val Arg His Gln Arg Arg Glu Arg Gln Pro Ala Pro
 1 5 10 15
 Gly Arg Asp Thr Val Arg Cys Tyr Asp Pro Ala Ser Gly Thr Asp His

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<210> 30206
<211> 91
<212> PRT
<213> A.fumigatus
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<210> 30207
<211> 168
<212> PRT
<213> A.fumigatus
```

<400> 30207															
Glu	Ala	Ala	Tyr	Ala	Leu	Gly	Arg	Val	Cys	Asp	Phe	Cys	Ser	Glu	Thr
1				5					10					15	
Leu	Asp	Pro	Asp	Val	His	Leu	Gln	Pro	Leu	Ile	Thr	Cys	Leu	Phe	Asn
			20					25					30		
Gly	Leu	Ala	Ser	Ser	Pro	Lys	Ile	Ala	Ser	Ser	Cys	Cys	Trp	Ala	Leu
		35					40					45			
Met	Asn	Val	Ala	Asp	Arg	Phe	Ala	Gly	Asp	Val	Gly	Ala	His	Thr	Asn

11421

```

      50              55              60
Pro Leu Ser Lys His Phe Gln Asp Ser Val Lys Ser Leu Leu Thr Leu
65              70              75              80
Thr Glu Arg Gln Asp Ala Asp Asn Gln Leu Arg Thr Ala Gly Tyr Glu
      85              90              95
Val Leu Asn Ser Phe Val Thr Asn Ala Ala Asn Asp Ser Leu Pro Leu
      100              105              110
Val Ala Thr Leu Ser Asp Val Met Ile Gln Arg Leu Glu Gln Thr Ile
      115              120              125
Pro Met Gln Gln Gln Val Val Ser Val Glu Asp Arg Ile Thr Leu Glu
      130              135              140
Glu Met Gln Thr Ser Leu Thr Ser Val Leu Leu Val Arg Ile Pro Asp
145              150              155              160
Ala Pro Arg Arg Tyr Ile His Cys
      165

```

<210> 30208

<211> 65

<212> PRT

<213> A.fumigatus

<400> 30208

```

Arg Pro Phe Ser Asp Leu Ala Asp Thr Phe Pro Asn Gly Glu Phe Ala
1              5              10              15
Ser Phe Phe Arg Asn Asp Trp Val Thr Ala Leu Val Arg Glu Thr Arg
      20              25              30
Asn Asn Arg Glu Tyr Ser Ala Arg Thr Ile Asp Thr Ala Arg Trp Thr
      35              40              45
Arg Glu Gln Val Lys Arg Gln Val Asn Met Ser Thr Ala Ala Ala Met
50              55              60
Ala
65

```

<210> 30209

<211> 134

<212> PRT

<213> A.fumigatus

<400> 30209

```

Leu Asn Val Lys Glu Ser Met Lys Tyr Ala Ser Ile Arg Met Lys Glu
1              5              10              15
Ile Tyr Asp Trp Asn Tyr Lys Leu Ile Lys Phe Arg Val Ser Asp Gln
      20              25              30
Val Tyr Val Gln Leu His Cys Gly Tyr Ser Leu Leu Thr Lys Gln Ala
      35              40              45
Asn His Lys Lys Leu Gln Leu Gln Asn Ala Gly Leu Phe Arg Val Leu Glu
50              55              60
Cys Val Gly Arg Leu Thr Tyr Cys Ile Lys Leu Pro Ser Thr Trp Lys
65              70              75              80
Ile His Leu Val Leu Ser Val Ala His Leu Glu Pro Ala Pro Ala Thr
      85              90              95
Pro Asn Pro Phe His His Glu Leu Pro Lys Pro Pro Ala Val Val Asp
      100              105              110
Ala Glu Val Tyr Pro Gly Glu Asp Asn Ile Tyr Lys Val Lys His Leu
      115              120              125
Leu Asp Lys Tyr Thr Val

```

130

<210> 30210
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 30210
 Leu Ile Leu Leu Leu Thr Ile Arg Leu Lys Tyr Ser Ile Ser Tyr Asn
 1 5 10 15
 Pro His Leu Thr Val Cys Phe Ser Val Pro Ile Leu Thr Pro Leu Gly
 20 25 30
 Thr Tyr Ile Leu Thr Leu Ile Tyr Tyr Ile Lys Gly Leu Gly Val Ile
 35 40 45
 Val Tyr His Ile Gln Ile Asn Asn His His Thr Asn Leu Leu Ile Pro
 50 55 60
 Pro Ile His Ile Val Ile Gln Pro Ile Leu Phe Leu Ser
 65 70 75

<210> 30211
 <211> 88
 <212> PRT
 <213> A.fumigatus

<400> 30211
 Arg Arg Glu Thr Val Glu Leu Phe His Phe Phe Leu Leu Lys Leu Ile
 1 5 10 15
 Gly Ala His Leu Ile Phe Glu Pro Ile Ala Pro Ser Thr His Tyr Pro
 20 25 30
 Thr Ser Ser Ile Gly Gln Asp Thr His Glu Ser Trp Leu Lys Cys Phe
 35 40 45
 Lys Ile Asn Ala Ala Tyr His Lys Asn Leu Cys Asn Cys Tyr Asn Ser
 50 55 60
 Ser Trp Lys Asn Leu Ala Val Leu Asp Ile Gln Lys Gln Gln Cys Tyr
 65 70 75 80
 Arg Trp Ser Met Val His Lys Thr
 85

<210> 30212
 <211> 185
 <212> PRT
 <213> A.fumigatus

<400> 30212
 Thr Glu Leu Val Ser Ile Phe Val Glu Asp Cys Leu Thr Tyr Leu Ala
 1 5 10 15
 Glu Arg Leu Glu His Leu His Cys Ser Leu Lys Thr Asn Thr Ser Ile
 20 25 30
 Arg Asp Gly Asp Thr Ile Leu Glu Leu Leu His Leu Val Leu Arg Leu
 35 40 45
 Trp Arg Ser Leu Leu Thr Leu Val Asp Ile Thr Leu Asn His Asp Ser
 50 55 60
 Gly Asn Gly Arg Leu Pro Ser Ser Asp Leu Gly Gly Asn Cys Ile Asp
 65 70 75 80
 His Leu Gly Leu Val Thr Val Ile Leu Leu Ala Val Ala Val Arg Arg
 85 90 95

11423

Ile	Asp	His	Asp	Thr	Arg	Leu	Glu	Ile	Leu	Arg	Val	Ser	Leu	Asp	Cys
			100					105					110		
Gly	Arg	Asp	Arg	Arg	Ser	Val	Glu	Val	Gly	Ala	Ala	Val	Ser	Ser	Thr
		115					120					125			
Val	Asp	Asn	Val	Lys	Met	Arg	Ile	Ser	Phe	Arg	Val	Asp	Asp	Gly	Cys
		130				135					140				
Lys	Thr	Leu	Phe	Gly	Asp	Thr	Cys	Arg	Gln	Ser	Ala	Ala	Val	Asn	Gly
145					150				155					160	
Ser	Pro	Arg	Thr	Leu	Leu	Ala	Asp	Leu	Lys	Met	Ser	Glu	Glu	Arg	Arg
			165					170						175	
Arg	Ser	Ser	Ser	His	Arg	Met	Arg	Trp							
			180					185							

<210> 30213

<211> 173

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (61), (99)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30213

Gly	Glu	Glu	Ala	Leu	Phe	Ile	Ala	Ser	His	Ala	Met	Val	Ile	Leu	Pro
1				5					10					15	
Glu	Asp	Pro	Phe	Leu	Lys	Pro	Met	Gly	Asn	Asp	Arg	Pro	Glu	Thr	Asn
			20					25					30		
Cys	Arg	Trp	Thr	Cys	Asp	Ser	Val	Arg	Ala	Pro	Thr	Ala	Pro	Gln	
		35				40					45				
Glu	Tyr	Arg	Ser	Ala	Arg	Asn	Cys	Arg	Glu	Met	Val	Xaa	Ser	Thr	Ser
	50					55					60				
Gln	Ala	Thr	Gly	Arg	Pro	Arg	Thr	Val	Met	Ser	Asn	Ser	Asn	Tyr	Gly
65					70					75					80
Gln	Pro	Ala	Ala	Asn	Gly	Ser	Thr	Asp	Leu	Pro	Val	Ser	Gly	Met	Arg
				85					90					95	
Arg	Leu	Xaa	Arg	Tyr	Phe	Gln	Ser	His	Val	Asp	Leu	Val	Gly	Gly	Val
			100					105					110		
Asp	Ile	Arg	Ile	Val	Glu	Lys	Ala	Phe	Pro	Ala	His	Arg	Ile	Pro	Arg
		115					120					125			
Phe	Phe	Lys	Val	Gly	Thr	His	Asp	Asp	Gln	Lys	Ile	Ile	Val	Pro	Ser
		130				135					140				
Val	Leu	Leu	Asn	Gly	Gly	Leu	Gln	Ala	Asp	Ser	Val	Val	Ala	Cys	His
145					150					155					160
Val	Gly	Ile	Met	Tyr	Gly	Ala	Gly	Pro	His	Asp	Asp	Gln			
			165						170						

<210> 30214

<211> 149

<212> PRT

<213> A.fumigatus

<400> 30214

Leu	Ser	Ala	Gly	Val	Thr	Glu	Gln	Gly	Leu	Ala	Ala	Ile	Val	His	Thr
1				5					10					15	
Lys	Gly	Asn	Pro	His	Leu	His	Val	Ile	His	Arg	Gly	Gly	Asp	Ser	Gly

<220>

<221> UNSURE

<222> (17)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30216

```

Leu Leu Phe Asp Ile Thr Val Leu Gly Leu Pro Val Ala Cys Glu Val
1           5           10           15
Xaa Asp Thr Ile Ser Arg Gln Phe Leu Ala Asp Leu Tyr Ser Trp Gly
          20           25           30
Ala Val Gly Ala Arg Thr Thr Glu Ser Gln Val His Arg Gln Leu Val
          35           40           45
Ser Gly Leu Ser Phe Pro Ile Gly Phe Lys Asn Gly Ser Ser Gly Asn
          50           55           60
Ile Thr Ile Ala Cys Asp Ala Met Lys Ser Ala Ser Ser Pro His Ser
          65           70           75           80
Phe Leu Gly Pro Leu Val Lys Ser Ala Ala Ile His Leu Leu Leu Leu
          85           90           95
Thr Val Cys Arg Cys His Arg Thr Arg Ser Cys Ser His Arg Pro His
          100          105          110
Glu Arg Lys Ser Ser Ser Ser Arg Tyr Pro Pro Trp Arg Arg Gln Arg
          115          120          125
Pro Gln Leu Arg Arg Cys Val Cys Arg Val His Asn Gln Gly Leu Pro
          130          135          140
Glu Glu Ser Pro Thr Glu Tyr His Asp Arg Cys Val Ala Arg Gln Gln
          145          150          155          160
Pro Lys Gly Leu Pro
          165

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<210> 30217

<211> 72

<212> PRT

<213> A.fumigatus

<400> 30217

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Met Ser Trp Ser Pro Leu Leu Arg Asn Ala Leu Arg Ser Gln Ser Arg
1           5           10           15
Ser Thr Phe Ile Arg Val Pro Gln Arg Thr Phe Ser Ser Ser Ile Ser
          20           25           30
Gln Met Ala Pro Phe Thr Leu Tyr Thr His Ala Gly Lys Ala Phe Phe
          35           40           45
Pro Val Asp Gln Glu Val Phe Asp Glu Trp Leu Gln Ala Pro Asp Pro
          50           55           60
Thr Leu Ser Ser Gly His Trp Pro
          65           70

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<210> 30218

<211> 296

<212> PRT

<213> A.fumigatus

<400> 30218

```

Leu Phe Asp Ser Val Asp Arg Asn Lys Tyr Gln Ile Met Leu Pro Leu
1           5           10           15
Pro Pro Lys Ile Asp Pro Ser Val Thr Met Met Thr Val Glu Asp Lys
          20           25           30
Pro Asp Val Thr Tyr Gly Asp Val Gly Gly Cys Lys Glu Gln Ile Glu

```

35	40	45
Lys Leu Arg Glu Val Val Glu Met Pro Leu Leu Ser Pro Glu Arg Phe		
50	55	60
Val Asn Leu Gly Ile Asp Pro Pro Lys Gly Ala Leu Leu Tyr Gly Pro		
65	70	75
Pro Gly Thr Gly Lys Thr Leu Cys Ala Arg Ala Val Ala Asn Arg Thr		
85	90	95
Asp Ala Thr Phe Ile Arg Val Ile Gly Ser Glu Leu Val Gln Lys Tyr		
100	105	110
Val Gly Glu Gly Ala Arg Met Val Arg Glu Leu Phe Glu Met Ala Arg		
115	120	125
Thr Lys Lys Ala Cys Ile Ile Phe Phe Asp Glu Ile Asp Ala Val Gly		
130	135	140
Gly Ala Arg Phe Asp Asp Gly Ala Gly Gly Asp Asn Glu Val Gln Arg		
145	150	155
Thr Met Leu Glu Leu Ile Thr Gln Leu Asp Gly Phe Asp Ala Arg Gly		
165	170	175
Asn Ile Lys Val Met Phe Ala Thr Asn Arg Pro Ser Thr Leu Asp Pro		
180	185	190
Ala Leu Met Arg Pro Gly Arg Ile Asp Arg Lys Ile Glu Phe Ser Leu		
195	200	205
Pro Asp Val Glu Gly Arg Ala Asn Ile Leu Arg Ile His Ala Lys Ser		
210	215	220
Met Ser Val Glu Arg Asp Ile Arg Trp Glu Leu Ile Ser Arg Leu Cys		
225	230	235
Pro Asn Ala Thr Gly Ala Glu Leu Arg Ser Val Ala Thr Glu Ala Gly		
245	250	255
Met Phe Ala Ile Arg Ala Arg Arg Lys Val Ala Thr Glu Lys Asp Phe		
260	265	270
Leu Ala Ala Val Asp Lys Val Ile Lys Gly Asn Leu Lys Phe Asn Ser		
275	280	285
Thr Ala Thr Tyr Met Gln Tyr Asn		
290	295	

<210> 30219

<211> 132

<212> PRT

<213> A.fumigatus

<400> 30219

His Ser Ser Thr Gln Asp Ile Arg Arg Arg Ser Ile Arg Asp Arg Ile		
1	5	10
Lys Glu Ala Arg Lys Thr Asp Gln Gly Gln Thr Ser Glu Cys Lys Arg		
20	25	30
Glu Asp Trp Arg Gln Gly Leu Leu Asn Leu Val Leu Cys Tyr Leu Arg		
35	40	45
Thr Leu Ala Asp Phe Arg Gln Glu Ser Asp Thr Gly Leu Ala Pro Pro		
50	55	60
His Ile Trp Asp Val Ala Ala Asp Arg Gln Arg Met Ala Glu Glu Gln		
65	70	75
Pro Leu Gln Val Ala Arg Cys Thr Lys Ile Ile Ser Asp Glu Lys Asp		
85	90	95
Pro Asp Lys Ser Lys Tyr Val Ile Asn Val Lys Gln Ile Ala Lys Phe		
100	105	110
Val Val Asn Leu Gly Glu Arg Val Ser Pro Thr Asp Ile Glu Glu Gly		
115	120	125

Met Arg Val Gly
130

<210> 30220
<211> 165
<212> PRT
<213> A.fumigatus

<400> 30220
His Thr Leu Gly Met Asn Ala Glu Asp Val Gly Ala Thr Phe His Ile
1 5 10 15
Gly Lys Arg Glu Phe Asp Leu Ala Val Asn Thr Thr Arg Thr His Gln
20 25 30
Gly Arg Ile Gln Gly Arg Arg Ser Val Gly Cys Lys His Asp Leu Asn
35 40 45
Val Thr Thr Gly Ile Lys Thr Ile Gln Leu Cys Asn Gln Leu Lys His
50 55 60
Ser Thr Leu Asn Leu Val Thr Thr Ser Ser Ile Ile Glu Thr Ser
65 70 75 80
Thr Ala Asp Arg Val Asp Phe Val Lys Glu Asp Asp Ala Arg Leu Leu
85 90 95
Gly Thr Gly His Leu Lys Lys Phe Ser Asn His Ser Cys Thr Leu Thr
100 105 110
Asn Val Leu Leu Asn Gln Leu Ala Thr Asn Asn Thr Asp Glu Gly Gly
115 120 125
Val Arg Pro Val Ser Asp Cys Ser Ser Ala Glu Gly Leu Ala Gly Thr
130 135 140
Gly Arg Thr Val Gln Gln Arg Ala Leu Gly Arg Ile Asp Thr Glu Val
145 150 155 160
Asp Glu Ser Phe Arg
165

<210> 30221
<211> 72
<212> PRT
<213> A.fumigatus

<400> 30221
Thr Asn Ser Leu Pro Ile Thr Arg Met Lys Val Ala Ser Val Arg Leu
1 5 10 15
Ala Thr Ala Arg Ala Gln Arg Val Leu Pro Val Pro Gly Gly Pro Tyr
20 25 30
Ser Ser Ala Pro Leu Gly Gly Ser Ile Pro Arg Leu Thr Asn Arg Ser
35 40 45
Gly Asp Ser Lys Gly Ile Ser Thr Thr Ser Leu Ser Phe Ser Ile Cys
50 55 60
Ser Leu His Pro Pro Thr Ser Pro
65 70

<210> 30222
<211> 79
<212> PRT
<213> A.fumigatus

<400> 30222
His Asp Phe Gly Cys Pro Val Val Gln Ala Leu Thr Pro Asp Thr Pro

1		5		10		15									
Glu	Lys	Pro	Lys	Gln	Phe	Leu	His	Ile	Val	Ser	Ile	Met	Gln	Val	Ser
		20						25					30		
Ser	Gln	Phe	Asp	Leu	Arg	Leu	Gly	Asp	Met	Ala	Thr	Ser	Phe	Gly	Leu
		35					40					45			
Phe	Gly	Thr	Thr	Ala	Thr	Ile	Ser	Leu	Gly	Thr	Asn	Gly	Lys	Tyr	Ile
	50					55					60				
Tyr	Ser	Cys	Pro	Val	Val	Ser	Ile	Cys	Ser	Pro	Val	Thr	Ile	Ser	
65					70				75						

<210> 30223

<211> 461

<212> PRT

<213> A.fumigatus

<400> 30223

Ile	Pro	Leu	Asp	Gly	Asn	Ser	Arg	Ser	Gln	Leu	Gly	Leu	Lys	Pro	Gly
1			5					10					15		
Asn	Val	Arg	Arg	Phe	Ile	Pro	Gly	Val	Ser	Glu	Val	Arg	Ser	Arg	Leu
		20					25					30			
Lys	Ser	Val	Thr	Lys	Ser	Gly	Val	Ser	Ile	Phe	Glu	Gly	Tyr	Lys	Glu
		35				40					45				
His	Val	Arg	Asp	Leu	Trp	Phe	Pro	Arg	Thr	Asp	Pro	Pro	His	Tyr	Leu
	50				55				60						
Arg	Ile	Arg	Glu	Ser	Pro	Ser	Glu	Gly	Pro	Tyr	Val	Lys	Asp	Leu	Thr
65				70				75				80			
Glu	Val	Thr	Val	Arg	Asn	Tyr	Asn	Glu	Leu	Met	Lys	Tyr	Met	Arg	Lys
			85				90					95			
Gly	Asp	Met	Ser	Arg	Thr	Val	Ala	Ser	Thr	Lys	Met	Asn	Asp	Thr	Ser
		100				105						110			
Ser	Arg	Ser	His	Ala	Val	Phe	Thr	Ile	Thr	Leu	Lys	Gln	Ile	His	His
	115				120							125			
Asp	Leu	Ser	Thr	Asp	Glu	Thr	Thr	Glu	Arg	Thr	Ala	Arg	Ile	Arg	Leu
	130				135					140					
Val	Asp	Leu	Ala	Gly	Ser	Glu	Arg	Ala	Lys	Ser	Thr	Glu	Ala	Thr	Gly
145				150					155					160	
Gln	Arg	Leu	Arg	Glu	Gly	Ser	Asn	Ile	Asn	Lys	Ser	Leu	Thr	Thr	Leu
		165					170						175		
Gly	Arg	Val	Ile	Ala	Ala	Leu	Ala	Asp	Pro	Arg	His	Gly	Arg	Ser	Gly
	180					185					190				
Lys	Arg	Lys	Gly	Lys	Asp	Val	Val	Pro	Tyr	Arg	Asp	Ser	Ile	Leu	Thr
	195					200					205				
Trp	Leu	Leu	Lys	Asp	Ser	Leu	Gly	Gly	Asn	Ser	Lys	Thr	Ala	Met	Ile
	210				215						220				
Ala	Cys	Ile	Ser	Pro	Ser	Asp	Tyr	Glu	Glu	Thr	Leu	Ser	Thr	Leu	Arg
225				230					235					240	
Tyr	Ala	Asp	Gln	Ala	Lys	Arg	Ile	Arg	Thr	Arg	Ala	Arg	Ile	Asn	Gln
		245						250					255		
Asp	Gln	Met	Ser	Ala	Ala	Glu	Arg	Asp	Lys	Gln	Ile	Ala	Glu	Met	Ala
	260					265					270				
Glu	Thr	Ile	Arg	Ala	Leu	Gln	Leu	Ser	Val	Ser	Leu	Ala	Ala	Ala	Asn
	275					280					285				
Arg	Arg	Glu	Thr	Glu	Ile	Gln	Asn	Glu	Arg	Leu	Glu	Val	Tyr	Gln	Gln
	290				295					300					
Lys	Val	Glu	Lys	Met	Gln	Arg	Leu	Met	Glu	Glu	Thr	Lys	Met	Val	Ser
305					310				315						320

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<210> 30224
<211> 77
<212> PRT
<213> A.fumigatus
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Met	Ile	Ala	Gln	Arg	Phe	Ile	Phe	Gly	Leu	Gln	Leu	Pro	Asp	Leu	Ala
1				5					10					15	
Leu	Thr	Asp	His	Leu	Gly	Leu	Phe	His	Lys	Ser	Leu	His	Leu	Leu	Tyr
			20					25					30		
Leu	Leu	Leu	Val	Asp	Phe	Lys	Ser	Leu	Val	Leu	Asn	Leu	Gly	Leu	Pro
		35					40					45			
Pro	Val	Ser	Ser	Gly	Gln	Ala	Tyr	Ala	Glu	Leu	Lys	Gly	Ser	Asp	Ser
	50					55					60				
Phe	Arg	His	Phe	Cys	Asn	Leu	Leu	Ile	Thr	Leu	Arg	Gly			
65					70					75					

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<210> 30225
<211> 186
<212> PRT
<213> A.fumigatus
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Ser	Pro	Leu	Leu	Thr	Met	Ser	Asp	Asn	Ser	Ala	Lys	Arg	Gly	Thr	Gly
1				5					10					15	
Glu	Lys	Ser	Pro	Asn	Asp	Pro	Arg	Lys	Gln	Ala	Asp	Ser	Arg	Lys	Ser
			20					25					30		
Asp	Pro	Glu	Ser	Gln	Asn	Ser	Pro	Ser	Leu	Ala	Asn	Arg	Ile	Gln	Asn
			35				40					45			
Ser	Ala	Ala	Gly	Leu	Ala	Trp	Ser	Ala	Phe	Asn	Ala	Ala	Gly	Ser	Ser
	50					55				60					
Ala	Asp	Ala	Ala	Gln	Val	Phe	Gly	Ser	Gly	Ser	Lys	Ala	Gly	Pro	Ser
65					70				75					80	
Ser	Ser	Ala	Ser	Ser	Ser	Ala	Leu	Ala	Ala	Ala	Glu	Gln	Tyr	Arg	Glu
				85					90					95	
Thr	Ala	Thr	Pro	Thr	Ser	Ser	Asn	Arg	Val	Leu	Ala	Asn	His	Pro	Ala
			100					105					110		

11430

Ala Ser Phe Arg Ser Ser Ser Ala Gly Gln Gln Gly Ala Phe Glu Leu
 115 120 125
 Pro Pro Leu Thr Glu Asp Glu Phe Gln Cys Thr Tyr Asp Glu Ser Gln
 130 135 140
 Val His Asp Arg Ile Asp Phe Pro Pro Ser Thr Glu Thr Glu Thr Asp
 145 150 155 160
 Thr Glu Lys Gly Lys Gly Lys Ala Ser Glu Ala Leu Ser Ala Val Phe
 165 170 175
 Thr Pro Glu Leu Ala Gly Thr Arg Leu Cys
 180 185

<210> 30226

<211> 221

<212> PRT

<213> A.fumigatus

<400> 30226

Leu His Cys Leu Arg Tyr Arg Val Ala Ala Trp Asp Ala Leu Pro Cys
 1 5 10 15
 Phe His Val Leu Asp Trp Asp Val Arg Asn Pro Leu Cys Phe Gly Asp
 20 25 30
 Ser Tyr Thr Cys Ala Asp Cys Arg Ser Trp Ser Leu Ile Met His Trp
 35 40 45
 Ile Leu Ala Ile Thr Asn Ala Cys Asn Gly Leu Thr Tyr Val Thr Arg
 50 55 60
 Phe Ser Cys Asp Ile Phe Gly Phe Tyr Val Ala Phe Ile Tyr Leu Gln
 65 70 75 80
 Lys Gly Ile Gln Val Leu Thr Arg Gln Trp Val Gln Val Gly Glu Ala
 85 90 95
 Ser Ala Tyr Leu Ser Ile Met Val Ala Leu Leu Val Leu Met Ser Gly
 100 105 110
 Trp Val Cys Gly Gln Leu Gly Ser Ser Thr Leu Phe Gln Arg Tyr Val
 115 120 125
 Arg Lys Phe Leu Glu Asp Tyr Gly Thr Pro Leu Thr Ile Ile Phe Phe
 130 135 140
 Thr Gly Phe Val His Ile Gly His Met Arg Asp Val Glu Val Ala Thr
 145 150 155 160
 Leu Pro Thr Ser Lys Ala Phe Phe Pro Thr Ala Asp Arg Asp Trp Leu
 165 170 175
 Val Asp Phe Trp Asn Ile Ser Val Gly Asp Val Phe Leu Ala Ile Pro
 180 185 190
 Phe Ala Leu Leu Leu Thr Ile Leu Phe Tyr Phe Asp His Asn Gly Gly
 195 200 205
 Phe Ser Leu Ser Glu Gly Tyr His Pro Asn His Ser Gly
 210 215 220

<210> 30227

<211> 75

<212> PRT

<213> A.fumigatus

<400> 30227

Gly Pro Ser Cys Leu Cys Phe Gly Gly Cys Cys Phe Cys Gly Leu Cys
 1 5 10 15
 Cys Ala Ala Phe Gly Tyr Cys Trp Cys Tyr Trp Trp Val Cys Ser Asp
 20 25 30

11431

Ser Gly Gly Cys Ala His Asp Ala His Leu Tyr Cys Ala Gly Pro Ile
 35 40 45
 Thr Val Phe Asn Tyr Thr Val Tyr Asp Ile Val Ser Pro Arg Gly Thr
 50 55 60
 Pro Tyr Leu Ala Phe Met Cys Trp Ile Gly Met
 65 70 75

<210> 30228
 <211> 148
 <212> PRT
 <213> A.fumigatus

<400> 30228
 Ser Val Gln Val Tyr His Cys Thr Pro Tyr Lys Met Gln Arg Asn Arg
 1 5 10 15
 Arg Ala Ser His Thr Ser Ala Arg Glu Asp Thr Val Phe Ser Arg
 20 25 30
 Ser Asn Leu His Pro Thr Thr Ser His Gly Ser Val His Ser Ser His
 35 40 45
 Ser Gln Arg Asn Ser Trp Gln Ser Arg Pro Pro His Ala Arg Arg Gly
 50 55 60
 Ser Gly Gln Ser His Ser Gln Arg Ser Gln His Gln His Gly Gly Val
 65 70 75 80
 Ser His Gly Gln Gln Gly Ala Glu Gly Leu Ser Gly Val Gln Thr Gly
 85 90 95
 Ala Ser Ser Ala Arg Thr Ser Arg Trp Trp Arg Val Arg Leu Phe Arg
 100 105 110
 Gly Met Ile Lys Asp Ile Lys Arg Arg Ala Pro Phe Tyr Trp Ser Asp
 115 120 125
 Trp Thr Asp Ala Trp Asp Tyr Arg Val Ile Pro Ala Thr Val Tyr Met
 130 135 140
 Tyr Phe Ala Lys
 145

<210> 30229
 <211> 124
 <212> PRT
 <213> A.fumigatus

<400> 30229
 Gly Phe Phe Phe Cys Pro Gly Tyr Cys Gly Val Glu Glu Asn Thr Asp
 1 5 10 15
 Trp Cys Ser Ile Leu Pro Ala Leu Ala Phe Ser Leu Asp Met Phe Glu
 20 25 30
 Lys Thr Lys Gln Ser Tyr Gly Val Asn Glu Val Leu Leu Ala Ser Val
 35 40 45
 Leu Gly Ala Val Val Phe Ala Val Phe Ala Ala Gln Pro Leu Val Ile
 50 55 60
 Val Gly Val Thr Gly Gly Phe Val Pro Ile Leu Gly Ala Val Leu Met
 65 70 75 80
 Met Leu Thr Cys Ile Ala Gln Val Arg Leu Arg Cys Leu Ile Thr Leu
 85 90 95
 Phe Thr Ile Ser Cys Arg Arg Val Gly Arg Pro Thr Leu Leu Ser Cys
 100 105 110
 Val Gly Leu Gly Cys Lys Lys Pro Pro Leu Leu Trp
 115 120

<210> 30230
 <211> 89
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (48)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30230
 Trp Leu Thr Tyr Cys Leu Val Ser Ser Leu Ile Ala Gln Gly Thr Glu
 1 5 10 15
 Phe Pro Leu Arg Lys Pro Ala Gly Phe His Trp Asp Ile Trp Leu Leu
 20 25 30
 Gly Leu Thr Thr Phe Ile Ala Gly Ile Leu Gly Leu Pro Phe Pro Xaa
 35 40 45
 Gly Leu Ile Pro Gln Ala His Phe His Thr Ala Ala Gly Cys Val Thr
 50 55 60
 Gly Ala Leu Ala Ala Val Leu Thr Thr Arg Lys Lys Gly Arg Lys Arg
 65 70 75 80
 Arg Lys Glu Lys Arg Lys Lys Lys Lys
 85

<210> 30231
 <211> 204
 <212> PRT
 <213> A.fumigatus

<400> 30231
 Gly Gly Cys Gln Leu Arg Leu Val Ser Asn Tyr Ile Pro Gly Ser Arg
 1 5 10 15
 Val Glu Asn Ile Tyr Arg Asp Leu Asn Val Ala Tyr Glu Pro Ser Ser
 20 25 30
 Gly Val Gly Tyr Leu Pro Cys Lys Leu Ala Gly Asn Asn Ile Asn Ile
 35 40 45
 Thr Tyr Thr Phe Ser Ser Pro Asn Ile Thr Val Met Ile Asp Glu Leu
 50 55 60
 Leu Leu Asp Ala Gly Asp Leu Arg Phe Arg Asp Gly Ala Arg Ala Cys
 65 70 75 80
 Ile Phe Gly Ile Val Pro Ala Gly Asp Ser Thr Ala Val Leu Gly Asp
 85 90 95
 Thr Phe Leu Arg Ser Ala Tyr Val Val Tyr Asp Ile Ala Asn Asn Glu
 100 105 110
 Ile Ser Ile Ala Asn Thr Asn Phe Asn Ser Thr Glu Asp Asn Ile Leu
 115 120 125
 Glu Ile Gly Val Gly Pro Asp Ser Val Pro Ser Ala Thr Gln Val Ser
 130 135 140
 His Pro Val Thr Ser Val Ala Asp Gly Ser Gly Ala Arg Ile Gly
 145 150 155 160
 Ala Pro Thr Gly Ala Ser Ser Thr Thr Val Pro Ser Ile Ser Ser Ala
 165 170 175
 Gly Ala Leu Ser Ala Gly Val Ala Arg Ala Asp Lys Gln Tyr Leu Ala
 180 185 190
 Ile Ala Leu Ile Ala Val Trp Phe Val Leu Gly Leu

195

200

<210> 30232
 <211> 143
 <212> PRT
 <213> A.fumigatus

<400> 30232
 Ser Ile Gly Ser Leu Gln Gly Gly Lys Gly Phe Thr Glu Glu Glu Arg
 1 5 10 15
 Ile Leu Ile Leu Glu Arg Val Arg Ser Asn Asn Ala Gly Ser Glu Asn
 20 25 30
 Arg His Phe Lys Trp Tyr Gln Val Arg Glu Ala Leu Cys Ser Tyr His
 35 40 45
 Phe Trp Phe Ile Phe Phe Leu Ser Met Leu Ser Ser Val Gly Ser Gly
 50 55 60
 Ala Val Thr Thr Phe Gly Ser Ile Ile Phe Asn Gly Met Gly Phe Thr
 65 70 75 80
 Val Phe Gln Ser Leu Leu Leu Asn Met Pro Ile Gly Ala Leu Ala Phe
 85 90 95
 Ile Cys Ile Leu Gly Ser Gly Tyr Ile Gly Arg Lys Val Pro Asn Ser
 100 105 110
 Arg Leu Tyr Val Leu Ser Gly Ala Cys Val Pro Val Ile Leu Gly Ser
 115 120 125
 Cys Leu Met Tyr Val Ser Phe Asn Val Asp Thr Gly Asn Ile Thr
 130 135 140

<210> 30233
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 30233
 Val Arg Trp Gln Leu Pro Ser Ser Gln Arg Ala Gly Arg Ile Ile Gly
 1 5 10 15
 Phe Tyr Leu Ile Asn Phe Phe Ser Ser Ala Trp Val Gln Cys Ile Ala
 20 25 30
 Met Gly Thr Ser Asn Val Ala Gly His Thr Lys Lys Ala Thr Met Ala
 35 40 45
 Ala Gly Thr Phe Val Gly Tyr Ser Leu Gly Asn Ile Ile Gly Pro Leu
 50 55 60
 Thr Phe Asp Ala
 65

<210> 30234
 <211> 476
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (475)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30234
 Ala Thr Arg Lys Glu Lys Thr Pro Gln Lys Phe Cys Val Ala Glu Gln

1		5		10		15									
Pro	Ser	Leu	Val	Gly	Gln	Lys	Asp	Ile	Phe	Gly	Ile	Lys	Ala	Thr	Ser
		20						25					30		
Ala	Lys	Pro	Glu	Lys	Leu	Ser	Val	Ile	Ile	Pro	Ser	Ser	Ala	Pro	Pro
		35					40					45			
Gly	His	Leu	Ala	Asn	His	Ser	Thr	Gln	Pro	Ser	Leu	Asp	His	Ala	Val
	50					55					60				
Pro	Val	Arg	His	Lys	Pro	Ser	Pro	Asn	Ser	Ser	His	Ser	Lys	Thr	Ala
65				70					75					80	
Ser	Lys	Val	Arg	Ala	Gln	Ala	Val	Glu	Gln	Gly	Pro	Arg	Glu	Phe	Ala
			85					90					95		
Ser	Leu	Arg	Asn	Thr	Val	Asn	Thr	Gln	Asn	Leu	Pro	Pro	Pro	Thr	Pro
		100						105					110		
Ile	Asn	Ala	Ser	Ala	Ser	Ser	Pro	Ser	Thr	Arg	Tyr	Ser	Gly	Ser	Pro
	115						120					125			
Gly	Ile	Trp	Ser	Arg	Thr	Ser	Thr	Pro	Thr	Ser	Leu	Ser	Ser	Tyr	Ser
	130					135					140				
Pro	Gly	Ile	Ile	His	Ser	Ala	Lys	Val	Gly	Pro	Arg	Phe	Arg	His	Pro
145				150					155					160	
Ser	Pro	Ser	Glu	Ser	Arg	Leu	Ser	Ile	Phe	Ser	Pro	Ile	Ile	Leu	Lys
			165					170						175	
Ser	Asp	Ser	Gln	Asp	Asp	Pro	Leu	Asp	Ser	Gly	Gly	Asp	Gly	Phe	Pro
		180						185				190			
Ser	Ile	Thr	Ala	Gly	Ala	Gly	Leu	His	Thr	Leu	Ser	Met	Ser	Thr	Lys
	195						200					205			
Thr	Gln	Ser	Asp	Asn	Pro	Pro	Asn	Arg	Asp	Gly	Ser	Ala	Lys	Pro	Ala
	210						215					220			
Thr	Pro	Pro	Glu	Asn	Gln	Leu	Pro	Thr	Lys	Ser	Ser	Thr	Gln	Ser	Ser
225				230						235				240	
Leu	Pro	Arg	Met	Thr	Arg	Ser	Asn	Leu	Ala	Glu	Asn	Ser	Glu	Ala	Tyr
			245					250					255		
Glu	Glu	Gln	Ser	Arg	Gly	Ala	Ser	Gly	Asp	Arg	Gly	Asn	Leu	Lys	Gly
		260						265				270			
Ser	Ala	Leu	Lys	Ser	Glu	Val	Ser	Gly	Ser	Gly	His	Val	Pro	Ser	Arg
		275					280				285				
Pro	Ser	Arg	Glu	Gly	Thr	His	Arg	Leu	Glu	Leu	Glu	Pro	Ser	Pro	Val
	290					295					300				
Ile	Arg	Ser	Asn	Leu	Pro	Pro	Gly	Ala	Val	Ala	Ser	His	Arg	Arg	His
305				310						315				320	
Gly	Ser	Gly	Ala	Ser	Ser	Val	Ala	Leu	Gly	Arg	Ser	His	Phe	Ala	Ser
			325						330				335		
Asn	Ala	Cys	Ala	Ala	Thr	Ser	Val	Asp	Ser	Leu	Gln	Ser	Arg	Ser	Ser
		340						345				350			
Ala	Arg	Pro	Pro	Ser	Leu	Ile	Pro	Ser	Ser	Pro	Glu	Ser	Met	Arg	Lys
		355					360					365			
Ser	Pro	Arg	Thr	Leu	Leu	Lys	Glu	Pro	Lys	Thr	Lys	Gln	Asp	Ala	Met
	370					375					380				
Ser	Pro	Ala	Lys	Pro	Arg	Ser	Tyr	Gly	Leu	Phe	Ser	Lys	Lys	Ser	Lys
385				390					395					400	
Ser	Glu	Met	Glu	Val	Gln	Lys	Leu	Glu	Asp	Arg	His	Ile	Arg	Lys	Gly
			405					410				415			
Pro	Ala	Ala	Gly	Thr	Gly	His	Glu	Gly	Tyr	Gly	Arg	Tyr	Ala	Gln	Arg
			420					425				430			
Gly	Arg	Lys	Gly	Thr	Val	Gly	Ser	Asn	Ser	Asp	Thr	Arg	Ala	Arg	Ser
	435						440				445				
Thr	Ser	Thr	Asn	Arg	Ser	Thr	Pro	Arg	Ser	Ala	Ser	Ser	Leu	His	Tyr

11435

450 455 460
 Glu Ala Ala Glu Ser Ala Ala Trp Cys Leu Xaa Thr
 465 470 475

<210> 30235
 <211> 595
 <212> PRT
 <213> A.fumigatus

<400> 30235
 Leu Gly Asp Ile Gly Pro Lys Gly Gly Gly Gly Gly Thr Arg Pro Gly
 1 5 10 15
 Gly Glu Phe Leu Arg Glu Gly Ala Lys Lys Val Ser Gly Ser Thr Glu
 20 25 30
 Phe His Asp Gly Gly Cys His Leu Glu Pro Trp Ser Phe Ser Trp Ala
 35 40 45
 Val Ser Gly Ala Leu Val Glu Ile Gln Gln Asp Ile Pro Ala Thr Glu
 50 55 60
 Arg Gln Ser Asp Ser Thr Gln Asn Leu Arg Met Ala Leu Leu Lys Ser
 65 70 75 80
 Ser Glu Arg Arg Ile Ser His Ile Val Ser Ser Ser Gln Met Ser Met
 85 90 95
 Ser Asn Arg Ser Gln Leu Ser Leu Ile Ala Ser Arg Gln Leu Asp Lys
 100 105 110
 Arg Leu Glu Gly Asn Ser Thr Thr Asp Thr Ser Gln Leu Arg Asp Leu
 115 120 125
 Arg Ile Leu Tyr Asn His Ala Gly Ile Pro Leu Pro Trp Asn His Ser
 130 135 140
 Ile Tyr Val Arg Lys Cys Asn Arg Met Phe Leu Phe Pro Lys Arg
 145 150 155 160
 Asn Met Val Met Arg Gln Asn Leu Ser Met Pro Cys Leu Leu Ser Thr
 165 170 175
 Glu Pro Gly His Ser Arg Leu Val Asp Arg Ser Glu Gly Phe Tyr Ala
 180 185 190
 Gly Lys Asn Phe Arg His Gly Glu Val Gly Ser His Ser Ala Gln Lys
 195 200 205
 Arg Pro Arg Ala Leu Ala Tyr Gln Met Trp Ser Ala Arg Met Glu Leu
 210 215 220
 Gln Thr Ser Lys Cys Ile Arg Tyr Asn Gln Ser Pro Leu Leu Gly Pro
 225 230 235 240
 Pro Gly Ser Pro Glu Ser Gly Leu Ile Gly Ser Phe Ser Ser Glu His
 245 250 255
 Ala Ala Leu Leu Asp Phe Ile Pro Arg Thr Phe Gly Arg Cys Ile Ala
 260 265 270
 Asp Pro Ser Asp Ala Ala Ser Arg Ala Gly Cys Met Lys Gln His Val
 275 280 285
 Asp His Asp Lys Gly Asp Met Ser Gln Glu Ser Ala Gln Asp Phe Glu
 290 295 300
 Ala Glu His Arg Arg Tyr Lys Pro Gln Leu Arg Ile Asp Asn Ser Ser
 305 310 315 320
 Cys Arg Ser Ala Glu Val Arg Asp Ser Gly Leu Gln Ala Ala Pro Pro
 325 330 335
 Gly Ala Val Gln Ser Ser Pro Arg Ser Asp Ser Ala Glu Arg Pro Arg
 340 345 350
 Ser Ser Asp Lys Thr Asn Lys Thr Lys Lys Leu Arg Lys Arg His Gln
 355 360 365

Ser Thr Ala Arg His Val Ala His Gly Glu Val His Leu Arg Ser Leu
 370 375 380
 Ser Thr Trp Glu Ala Arg Leu Ala His Asp Leu Asp Arg Arg Leu Glu
 385 390 395 400
 Trp Leu Phe His Gln Leu Ser Pro Gly Arg Arg Pro Phe His Phe Ala
 405 410 415
 Leu Leu Ala Asn His Trp Leu Asn Arg Glu Thr Trp Val Val Leu Asp
 420 425 430
 Pro Ile Ser Arg Val Pro Ile Gln Ala Arg Arg Leu Trp Gly Asp Pro
 435 440 445
 Arg Phe Asn Ser Pro Tyr Pro Ile Pro Arg Trp Gly Pro Arg Pro Lys
 450 455 460
 Tyr Pro Glu Ser Pro Cys Lys Thr Ala Asn Arg Pro His Leu Asn Ser
 465 470 475 480
 Trp Arg Val Ala Val Asn Arg Asn Arg Arg Ala Ser Gly Leu Gln Asp
 485 490 495
 Ile Val Lys Gly Leu Ala Leu Leu Glu Asp Ser Ala Asp Glu Pro Pro
 500 505 510
 Asp Gly Lys Val Asp Pro Ala Ser Trp Ile Leu Arg Arg Pro Pro Gln
 515 520 525
 Gly Phe Ala Arg Ser Ile Thr Gln Gln Asp Lys Tyr Phe Glu Gly Gly
 530 535 540
 Ala Gly Trp Gln Glu Thr Leu Gly Asp Trp Gln Arg Val Arg Arg Gly
 545 550 555 560
 Tyr Arg Ile Arg Lys Ala Ile Tyr Glu Gly Arg Thr Asn Arg Ser Arg
 565 570 575
 Thr Lys Glu Ile Ala Val Gly Leu Pro Arg Tyr Phe Gln Ala Ile Thr
 580 585 590
 Asn Glu Pro
 595

<210> 30236

<211> 262

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (79), (82)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30236

Gly Asn Ala Phe Gln Thr Ser Phe Gln Pro Ile Pro Leu Pro Arg Val
 1 5 10 15
 Gly Leu Pro Ser Arg Gly Asn Ile Lys Gln Glu Phe Thr Leu Asn Thr
 20 25 30
 Asn Lys Thr Val Lys Ser Arg Lys Ala Gln Ala Asp Leu Phe Pro Asp
 35 40 45
 Asn Val Ser Arg Ile Leu Leu Tyr Glu Pro Cys Ser Arg Glu Gly Glu
 50 55 60
 Arg Ser Arg Thr Cys Leu Ser Thr Lys Gly Lys Gly Glu His Xaa Leu
 65 70 75 80
 Glu Xaa Ile His Asp Phe Val Phe Arg Leu Pro Val Leu Glu Tyr Arg
 85 90 95
 Asn Lys Thr Trp Ser Asn Leu Asp Leu Ala Leu Arg Leu Lys Lys Asp
 100 105 110

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Val Ile Lys Ala Leu Ile Ser His Ala Pro Ala Ile Leu Gly Asn Lys
 115 120 125
 Phe Ser His His Arg Pro Ser Lys Gln Gln Leu Lys Arg Tyr Arg Glu
 130 135 140
 Val Ala Ser Pro Ser Gln Leu Leu Gln Asn Gln Asp Ser Ala Ser Asn
 145 150 155 160
 Ala Pro Ser Gly Lys Thr Gln Ser Leu Ala Ser Tyr Asp Ser Asn Ser
 165 170 175
 Glu His Ser Glu Ser Thr Ser Gln Arg Ser Val His Ser Gly Thr Ser
 180 185 190
 Pro Leu Ala Arg Ser Gln Ser Leu Gly Ser Ser Met Leu Ser Ile Gln
 195 200 205
 Asp Gln Gly Ile Pro Phe Asp Ser Arg Ser Ala Ser Glu Val Asp Val
 210 215 220
 Asp Ala Arg Trp Glu Val Cys Leu Tyr Thr Met Ser Tyr Lys Phe Arg
 225 230 235 240
 Glu Arg Leu Lys Ala Asn His His Leu Ser Asn Leu Val Gly Leu Ser
 245 250 255
 Ile Leu Pro Thr Asp His
 260

<210> 30237
 <211> 60
 <212> PRT
 <213> A.fumigatus

<400> 30237
 Thr Leu Leu Asp Gln Asn Phe Arg Trp Ser His Lys Asp Lys Glu Pro
 1 5 10 15
 Ser Val Phe Phe Asp Ala Lys Asn Val His Arg Gln Leu Leu Thr Ile
 20 25 30
 Leu Ile Gly Asp Thr Pro Lys Phe Ile Leu Tyr Phe His Phe Val Tyr
 35 40 45
 Phe Gln Thr Phe Thr Gln Ser Phe Arg Gln Arg His
 50 55 60

<210> 30238
 <211> 80
 <212> PRT
 <213> A.fumigatus

<400> 30238
 Asp Ser Ser Pro Gln Glu Asp Thr Asp Leu Val Ser Val Thr Ile Val
 1 5 10 15
 Val Pro Phe Ile His Ser Pro Ser Phe His Arg Met His Pro Thr Asn
 20 25 30
 Thr Ala Ala Trp Gln Ile Ala Glu Lys Ala Lys Pro Leu Glu Val Arg
 35 40 45
 Pro Ala Ala Tyr Thr Pro Pro Lys Glu Asn Glu Ile Val Val Lys Asn
 50 55 60
 Ser Ala Ile Gly Leu Val Phe Thr Thr Gly Leu Glu Gly Ala Ala Pro
 65 70 75 80

<210> 30239
 <211> 211
 <212> PRT

<213> A.fumigatus

<400> 30239

```

Leu Phe Ala Ser Thr Glu Val Gln Leu Leu Phe Val Cys Leu Ile Ala
1          5          10          15
Tyr Leu Ser Ile Val Tyr Ile Gln Arg Ser Arg Val Leu Ala Val Ser
20          25          30
Thr Pro Thr Leu Ser Ile Met Arg Phe Asn Ala Ala Ile Thr Gly Ala
35          40          45
Leu Val Ser Ser Ala Thr Leu Met Gly Gln Ala His Ala Glu Glu Thr
50          55          60
Glu Lys Lys Ala Asp Ala Thr Ser Leu Val Glu Lys Pro Thr Phe Thr
65          70          75          80
Val Ser Asn Ile Leu Ser Ile Gln Tyr Ser Pro Pro Ser Leu Leu Val
85          90          95
Ala Asp Asp Gln Leu Ser Ile Ser Leu Leu Pro Ser Lys Leu Pro Ser
100         105         110
Ser Ser Asn Leu Pro Pro Ile Gly Thr Arg Asp Gly Pro Pro Leu Thr
115         120         125
Pro Arg Arg Arg Thr Pro Ser Arg Arg Arg Ile Gly Pro Thr Ser Val
130         135         140
Asn Gly Leu Ser Arg Ser Leu Pro Cys Ser Thr Ala Trp Leu Ala Thr
145         150         155         160
Arg Val Trp Leu Ser Arg Thr Ser Arg Leu Thr Met Pro Ser Leu Arg
165         170         175
Ser Ser Pro Arg Arg Ser Thr Thr Arg Ala Arg Pro Trp Leu Phe Ser
180         185         190
Met Arg Leu Ser His Arg Val Gly His Ile Ser Ser Trp Leu Trp His
195         200         205
Gly Val Tyr
210

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<210> 30240

<211> 269

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (232)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30240

```

Val Lys Val Leu Tyr Glu Phe Ser Leu Thr Ile Leu Gln Val His Phe
1          5          10          15
Ile Phe Arg His Lys Asn Pro Lys Thr Gly Glu Tyr Glu Glu Lys His
20          25          30
Met Thr Ala Pro Pro Ala Ala Arg Thr Thr Lys Leu Thr Thr Leu Tyr
35          40          45
Thr Leu Ile Val Lys Pro Asp Gln Ser Phe Gln Ile Leu Ile Asp Gly
50          55          60
Glu Ala Val Lys Asn Gly Thr Leu Leu Glu Asp Phe Ala Pro Pro Val
65          70          75          80
Asn Pro Glu Lys Glu Ile Asp Asp Pro Lys Asp Lys Lys Pro Ala Asp
85          90          95
Trp Val Asp Glu Ala Lys Ile Pro Asp Pro Glu Ala Lys Lys Pro Asp

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      100      105      110
Asp Trp Asp Glu Asp Ala Pro Tyr Glu Ile Val Asp Glu Glu Ala Thr
      115      120      125
Met Pro Glu Asp Trp Leu Glu Asp Glu Pro Thr Ser Ile Pro Asp Pro
      130      135      140
Glu Ala Glu Lys Pro Glu Asp Trp Asp Asp Glu Glu Asp Gly Asp Trp
145      150      155      160
Ile Pro Pro Thr Val Pro Asn Pro Lys Cys Asn Glu Val Ser Gly Cys
      165      170      175
Gly Pro Trp Thr Pro Pro Met Lys Lys Asn Pro Ala Tyr Lys Gly Lys
      180      185      190
Trp Thr Ala Pro Leu Ile Asp Asn Pro Ala Tyr Lys Gly Ile Trp Lys
      195      200      205
Pro Cys Lys Ile Pro Asn Pro Ala Tyr Phe Glu Asp Lys Thr Pro Ser
      210      215      220
Asn Phe Glu Pro Met Gly Ala Xaa Lys Phe Leu Asp Ser Cys Val Cys
225      230      235      240
Ser Trp Val Leu Arg Ser Asp Lys Pro Thr Lys Leu Gly Phe Glu Ile
      245      250      255
Leu Asp His Ala Lys Thr Asn Phe Phe Phe Glu Asn His
      260      265

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<210> 30241
<211> 63
<212> PRT
<213> A.fumigatus

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<400> 30241
Val Ile Ser Ala Pro Gly Tyr Gly Met Glu Cys Thr Asp Thr Cys Leu
1      5      10      15
Gln Lys Asp Ser Leu Val Cys Gly Gly Ala Tyr Met Lys Leu Gln
      20      25      30
Glu Asn Lys Lys Leu His Ala Glu Phe Ser Asn Ala Thr Pro Tyr
      35      40      45
Val Ile Met Phe Gly Pro Asp Lys Cys Gly Ala Thr Asn Lys Val
      50      55      60

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<210> 30242
<211> 123
<212> PRT
<213> A.fumigatus

```

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<400> 30242
Pro Thr Thr Ile Glu Ala Pro Phe Leu Glu Gln Phe Thr Ala Asp Trp
1      5      10      15
Asp Ser Arg Trp Thr Pro Ser His Ala Lys Lys Glu Asp Ser Lys Ser
      20      25      30
Glu Glu Asp Trp Ala Tyr Val Gly Glu Trp Ala Val Glu Glu Pro Thr
      35      40      45
Val Leu Asn Gly Met Val Gly Asp Lys Gly Leu Val Val Lys Asn Val
      50      55      60
Ala Ala His His Ala Ile Ser Ala Lys Phe Pro Lys Lys Ile Asp Asn
      65      70      75      80
Lys Gly Lys Thr Leu Val Val Gln Tyr Glu Val Lys Pro Gln Ser Arg
      85      90      95
Ser Tyr Gln Leu Leu Ala Met Ala Trp Ser Val Leu Thr Pro Val Phe

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11440

	100		105		110
Lys	Lys	Thr	Pro	Leu	Phe
		Ala	Ala	Val	Pro
	115		120		

<210> 30243
 <211> 118
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (59), (69)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30243
 Thr Ser Asn Cys His Gln Arg Gln Ala Cys Ser Met Ala Gln Glu Ile
 1 5 10 15
 Glu Lys Thr Asn Asn Asp His Leu Val Gln Ser Ser Asp Pro Glu His
 20 25 30
 Pro Ala Asn Leu Ile Pro Glu Leu Cys Arg Lys Phe Tyr Asn Trp Gly
 35 40 45
 Trp Val Thr Gly Thr Gly Gly Gly Val Ser Xaa His Val Ser Gly Arg
 50 55 60
 Glu Lys Ile Leu Xaa Arg Ala Ser Ile Glu Phe Ile Lys Leu Arg Ser
 65 70 75 80
 Val Pro Ala Asn His Asn Phe His Trp His Leu Pro Glu Val Pro Lys
 85 90 95
 Arg Asn Trp Asn Pro Pro Gly Thr Asn Ile Leu Cys Ser Leu Lys Phe
 100 105 110
 Pro Gln Ser Pro Asn Tyr
 115

<210> 30244
 <211> 169
 <212> PRT
 <213> A.fumigatus

<400> 30244
 Ser Ile Arg Cys Pro Ser Ala Ser Ser Ser Thr Ile Asn Leu Tyr Gln
 1 5 10 15
 Ile Cys Leu His Asn Gly Leu Gln Pro Arg Pro Arg His Pro Arg Pro
 20 25 30
 Arg Arg Leu Lys Pro Leu Arg Arg Ala Gly His Val Leu Leu Gln Pro
 35 40 45
 Gly Arg His Pro Gly His Arg Pro Arg Arg Arg Ser Gln Ala Leu Ala
 50 55 60
 Ser Asp Asp Pro Pro Leu Pro Leu Gly His Pro Leu Arg Arg Arg Ala
 65 70 75 80
 Ala Arg Ala Arg Arg Gly Arg Ser Ser Pro Gln Ser Ile Arg Ala His
 85 90 95
 Arg Arg Thr His Gly Pro Arg Ala Asn Pro Arg Asp His Pro Leu Arg
 100 105 110
 Arg Arg Pro Gly Arg Leu Arg Gln His His Gly Arg His Glu Pro Leu
 115 120 125
 Arg Gln Gly Arg Lys Pro Ala Ser His Ala Gly Thr Gly Ser Leu Leu
 130 135 140

11441

Pro Arg Ala Gly Asp Arg Asp Gly Gly Gly Ala Arg Pro Asp Arg Gly
 145 150 155 160
 Arg Gly Gly Arg Ser Arg Gly His Gly
 165

<210> 30245
 <211> 317
 <212> PRT
 <213> A.fumigatus

<400> 30245
 Arg His Ile Ser Arg Ala Pro Arg Ile Leu Cys Thr Asn Pro Phe Val
 1 5 10 15
 Ala His Leu Pro Leu His Leu Pro Ser Ile Ser Thr Lys Phe Ala Ser
 20 25 30
 Thr Met Ala Ser Asn Arg Ala Leu Ala Ile Leu Asp His Ala Ala Ser
 35 40 45
 Asn His Tyr Gly Val Pro Ala Met Cys Cys Tyr Asn Leu Glu Gly Ile
 50 55 60
 Leu Ala Thr Val Arg Ala Ala Glu Ala Lys Arg Ser Pro Ala Met Ile
 65 70 75 80
 Leu Leu Phe Pro Trp Ala Ile His Tyr Ala Asp Gly Leu Leu Val His
 85 90 95
 Ala Ala Ala Glu Ala Ala Arg Lys Ala Ser Val Pro Ile Ala Val His
 100 105 110
 Met Asp His Ala Gln Thr Pro Glu Ile Ile Arg Tyr Ala Ala Asp Leu
 115 120 125
 Gly Gly Phe Asp Ser Ile Met Val Asp Met Ser His Tyr Asp Lys Glu
 130 135 140
 Glu Asn Leu Arg Leu Thr Arg Glu Leu Val Ala Tyr Cys His Glu Arg
 145 150 155 160
 Gly Ile Ala Thr Glu Ala Glu Pro Gly Arg Ile Glu Gly Gly Glu Asp
 165 170 175
 Gly Val Ala Asp Thr Ala Asp Leu Glu Gly Leu Leu Thr Thr Pro Glu
 180 185 190
 Glu Ser Arg Glu Phe Ala Asp Thr Gly Ile Asp Trp Leu Ala Pro Ala
 195 200 205
 Phe Gly Asn Val His Gly Glu Tyr Gly Pro Arg Gly Ile Arg Leu Glu
 210 215 220
 Tyr Asp Arg Leu Lys Ser Ile Gln Glu Ala Val Gly Asp Arg Val Lys
 225 230 235 240
 Leu Val Leu His Gly Ala Asp Pro Phe Thr Pro Glu Ile Phe Ala Gln
 245 250 255
 Cys Ile Glu Cys Gly Val Ser Lys Val Asn Leu Asn Lys Val Leu Asn
 260 265 270
 Asn Glu Tyr Val Arg Val Gln Arg Glu Lys Ser Gly Arg Ala Pro Leu
 275 280 285
 Thr Ala Val Leu Glu Glu Ala Thr Asn Glu Met Gln Lys Ala Val Glu
 290 295 300
 Arg Cys Met Asp Met Leu Gly Ser Thr Gly Lys Ala Ala
 305 310 315

<210> 30246
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 30246

```

Ile Gly Ile Ala Ser Asn Ile Lys Ile Ser Lys Ile Gly Gly Tyr Gly
1           5           10           15
Ala Ile Gly Gly Tyr Gly Ala Ala His Pro Gln Cys Gly Ser Gly Glu
          20           25           30
Gly Ala Tyr Gly Thr Asp Ile Ala Val Pro Arg Ser Ser Ala Val Leu
          35           40           45
Arg Gly Gln Tyr Val Gln Val Cys Arg Asp Ser Ala Phe Ala Pro Thr
          50           55           60
Ala Ala Glu Asp
65

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<210> 30247

<211> 71

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (17)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30247

```

Thr Ala Val His Gly Gln Val His Pro Val Pro Asp Thr Ala Gly Ala
1           5           10           15
Xaa Asp Ala Pro Cys His Leu Leu His Cys Leu Leu Ala Pro Glu Gln
          20           25           30
Gln Arg Gly Lys Ile Gln Ala Ser Ile Ser Glu Met Ala Thr Ile Leu
          35           40           45
Lys Ile Arg Ser Glu Glu Glu Gly Arg Thr Thr Asp Thr Ser Thr
          50           55           60
Val Glu Ala Phe Asp Arg Ser
65           70

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<210> 30248

<211> 76

<212> PRT

<213> A.fumigatus

<400> 30248

```

Thr Gly Ala Asp His Pro Gln Ala Asn Phe Tyr Leu Ala Phe Phe Phe
1           5           10           15
Ile Ala Gly Ser Leu Ser Asp Glu Arg Ile Asp Pro Phe Gly His Asn
          20           25           30
Met Gly Lys Tyr Ile Phe Phe Val Leu Arg Tyr Ala Cys Ile Leu Val
          35           40           45
Met Cys Leu Gln Phe Ile Ile Ser Met Gly Asn Arg Pro Gln Gly Leu
          50           55           60
Val Ser Arg Leu Pro Asn Asn Gly Lys Ala Cys Tyr
65           70           75

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<210> 30249

<211> 108

<212> PRT

<213> A.fumigatus

<400> 30249

His Pro Gln Arg Ala Lys Lys Leu Tyr Met Ser Gly Ile Ile Val Tyr
 1 5 10 15
 Ser Ile Ile Met Val Tyr Thr Ala Phe Cys Ala Leu Tyr Leu Val Val
 20 25 30
 Leu Lys Leu Met Ala Glu Ala Gly Val Gly Lys Lys Glu Leu Ala Val
 35 40 45
 Asn Asp Ser Leu Phe Ile Asn Ile Val Gly Phe Leu Val Ser Thr Val
 50 55 60
 Gly Leu Tyr Phe Tyr Ser Ser Val Leu Tyr Leu Asp Pro Gly His Asn
 65 70 75 80
 Val Thr Ser Phe Arg Ala Ile Thr Leu Arg Trp Leu Pro Thr Tyr Ile
 85 90 95
 Leu His Phe Cys Lys Val Leu Leu Arg Phe Val Asn
 100 105

<210> 30250

<211> 543

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (26), (63)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30250

Ser Ala Val Glu Val Pro Gln Tyr Ser Ser Arg Pro Asp Ser Pro Leu
 1 5 10 15
 Arg Pro Trp Ser Pro Ala Arg Ala Ala Xaa Trp Thr Arg Pro Pro Ala
 20 25 30
 Pro Pro Ser Val Thr Gly Ser Gln Tyr Glu Arg Ala Asp Leu Asn Gly
 35 40 45
 Ser Pro Arg Pro Gly Thr Pro Ser Ser Arg Tyr Gly Gly Ser Xaa Arg
 50 55 60
 Arg Pro Leu Pro Pro Ala Pro Leu Phe Ala Gly Pro Gly Ala Ala Thr
 65 70 75 80
 Gly Gln Asp Thr Ser Ile Asp Ile Gly Asp Gly Asn Asp Pro Glu Asp
 85 90 95
 Pro Phe Gly Gly Gly Gly Arg Thr Asn Asn Arg His Glu His Arg Gly
 100 105 110
 Ser Ile Arg Ser Phe Met Ser Asp Ser Thr Met Ile Thr Asp Glu Lys
 115 120 125
 Glu Glu Met Ala Lys Ile Asn Leu Asn Glu Asp Asp Val Val Asp Val
 130 135 140
 Asp Pro Asn Met His Tyr Gly Pro Ala Pro Glu Lys Gln Ser Arg Arg
 145 150 155 160
 Gly Val Arg Glu Ala Gln Met Ser Lys Lys Glu Val Gln Leu Ile Asn
 165 170 175
 Gly Glu Leu Ile Leu Glu Cys Lys Ile Pro Thr Ile Leu His Ser Phe
 180 185 190
 Leu Pro Arg Arg Asp Asp Arg Glu Phe Thr His Met Arg Tyr Thr Ala
 195 200 205
 Val Thr Cys Asp Pro Asp Asp Phe Thr Gln Arg Gly Tyr Lys Leu Arg
 210 215 220

Gln Gln Ile Gly Ser Thr Met Arg Glu Thr Glu Leu Phe Ile Cys Val
 225 230 235 240
 Thr Met Tyr Asn Glu Asp Glu Thr His Phe Thr Arg Thr Met His Gly
 245 250 255
 Ile Met Arg Asn Ile Ser His Phe Cys Ser Arg Ser Lys Ser Arg Thr
 260 265 270
 Trp Gly Lys Asp Gly Trp Lys Lys Ile Val Val Cys Ile Ile Ala Asp
 275 280 285
 Gly Arg Lys Lys Val His Pro Arg Thr Leu Asn Ala Leu Ala Ala Met
 290 295 300
 Gly Val Tyr Gln Glu Gly Ile Ala Lys Asn Ile Val Asn Gln Lys Gln
 305 310 315 320
 Val Thr Ala His Val Tyr Glu Tyr Thr Thr Gln Val Ser Leu Asp Ser
 325 330 335
 Asp Leu Lys Phe Lys Gly Ala Glu Lys Gly Ile Met Pro Cys Gln Val
 340 345 350
 Ile Phe Cys Leu Lys Glu His Asn Gln Lys Lys Leu Asn Ser His Arg
 355 360 365
 Trp Phe Phe Asn Ala Phe Gly Arg Ala Leu Gln Pro Asn Ile Cys Ile
 370 375 380
 Leu Leu Asp Val Gly Thr Lys Pro Glu Pro Thr Ala Leu Tyr His Leu
 385 390 395 400
 Trp Lys Ala Phe Asp Gln Asp Ser Asn Val Ala Gly Ala Ala Gly Glu
 405 410 415
 Ile Lys Ala Gly Lys Gly Lys Asn Met Met Gly Leu Leu Asn Pro Leu
 420 425 430
 Val Ala Ser Gln Asn Phe Glu Tyr Lys Met Ser Asn Ile Leu Asp Lys
 435 440 445
 Pro Leu Glu Ser Val Phe Gly Tyr Ile Thr Val Leu Pro Gly Ala Leu
 450 455 460
 Ser Ala Tyr Arg Phe Phe Ala Leu Gln Asn Asp Ala Asp Gly Asn Gly
 465 470 475 480
 Pro Leu Asn Gln Tyr Phe Lys Gly Glu Thr Leu His Gly Lys Asp Ala
 485 490 495
 Asp Val Phe Thr Ala Asn Met Tyr Leu Ala Glu Asp Arg Ile Leu Cys
 500 505 510
 Trp Glu Leu Val Ala Lys Arg Glu Glu Arg Trp Val Leu Lys Phe Val
 515 520 525
 Lys Ser Ala Val Gly Glu Thr Asp Val Pro Gly Glu Arg Cys Val
 530 535 540

<210> 30251

<211> 139

<212> PRT

<213> A.fumigatus

<400> 30251

Leu Met Ala Ser Ser Asp Thr Ile Pro Glu Phe Ile Ser Gln Arg Arg
 1 5 10 15
 Arg Trp Leu Asn Gly Ala Phe Phe Ala Ala Val Tyr Ser Leu Val Asn
 20 25 30
 Val Lys Gln Leu Trp Lys Thr Asp His Ser Val Pro Arg Lys Ile Leu
 35 40 45
 Leu Gln Ile Glu Ala Phe Tyr Gln Phe Leu Asn Leu Leu Phe Thr Tyr
 50 55 60
 Phe Gly Leu Val Cys Lys Leu Val Pro Leu Thr Glu Gln Val Leu Thr

11445

65					70					75				80	
Ile	Arg	Arg	Gln	Thr	Ser	Thr	Trp	Leu	Ser	Phe	Ser	Leu	Gln	Asp	Leu
				85					90					95	
Tyr	Arg	Thr	Arg	Glu	Leu	Thr	His	Leu	Asp	Ile	Thr	Trp	Glu	Asn	Thr
			100					105					110		
Ser	Ser	Leu	Ser	Cys	Gly	Thr	His	Ala	Ser	Trp	Ser	Cys	Ala	Cys	Asn
		115					120					125			
Ser	Ser	Phe	Arg	Trp	Val	Ile	Asp	His	Arg	Gly					
		130					135								

<210> 30252

<211> 88

<212> PRT

<213> A.fumigatus

<400> 30252

Val	Gln	Ser	Gly	Gly	Ser	Phe	Asp	Val	Asp	Tyr	Ser	Val	Val	Gly	Pro
1			5						10					15	
Gly	Glu	Lys	Val	Ile	Leu	Asp	Gly	Thr	Lys	Glu	Arg	Gln	Gly	Asp	Phe
		20					25					30			
Val	Phe	Thr	Ala	Gln	Ser	Ile	Gly	Glu	Tyr	Arg	Phe	Cys	Phe	Asn	Asn
	35					40					45				
Glu	Met	Ser	Thr	Phe	Ala	Glu	Lys	Met	Val	Asp	Phe	Glu	Ile	Ala	Val
	50					55				60					
Arg	Ser	Gly	Pro	Trp	His	Thr	Gln	Trp	Leu	Asp	Leu	Tyr	Gln	Gly	Thr
65					70				75					80	
Tyr	His	Thr	Asn	Trp	Gly	Val	Leu								
				85											

<210> 30253

<211> 127

<212> PRT

<213> A.fumigatus

<400> 30253

Val	Glu	Asn	Glu	Glu	Arg	Ala	Gln	Leu	Pro	Ser	Arg	Gln	Gly	Ala	Ser
1			5						10					15	
Pro	Glu	Gln	Ala	Ser	Ala	Leu	Glu	Glu	Ser	Ile	Tyr	Lys	Leu	Ser	Ala
		20					25					30			
Gln	Leu	Ser	Thr	Ile	Ala	Arg	Asn	Gln	Lys	Tyr	Phe	Arg	Thr	Arg	Glu
	35					40					45				
Asn	Arg	Asn	Phe	Ser	Thr	Val	Arg	Ser	Thr	Glu	Arg	Arg	Ile	Phe	Asn
	50				55				60						
Phe	Ser	Val	Ile	Glu	Gly	Leu	Met	Met	Val	Ser	Met	Ala	Gly	Leu	Gln
65				70					75					80	
Val	Phe	Ile	Val	Arg	Phe	Phe	Phe	Gln	Gly	Ala	Arg	Lys	Gly	Thr	Tyr
		85					90					95			
Ser	Leu	Ser	Tyr	Gly	Gly	Val	Lys	Pro	Gly	Ile	Val	Phe	Asp	Tyr	Cys
		100					105					110			
Leu	Ser	Arg	Ser	Leu	Ile	Gln	Val	His	Val	Trp	Leu	Thr	Pro	Leu	
		115				120					125				

<210> 30254

<211> 62

<212> PRT

<213> A.fumigatus

<400> 30254

```

Thr Arg Val Ser Thr Leu Leu Ser Lys Lys Gln Leu Thr Asp Leu Lys
1           5           10           15
Ile Gly Ser Thr Val Leu Leu Ser Met Pro Phe Gly Ser Phe Ala Arg
          20           25           30
Arg Leu Gly Ile Ile Leu Asp His His Leu Phe Leu Arg Asn Asn Glu
          35           40           45
Ser Asp Ile Pro Thr Ala Leu Lys Glu Asn Ala Ser His His
          50           55           60

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<210> 30255

<211> 93

<212> PRT

<213> A.fumigatus

<400> 30255

```

Asn Ile Asp Leu Asp Ile Thr Asp Asn Ser Asn Ser Ala Val Tyr Val
1           5           10           15
Gln Gly Arg Asp Lys Phe Asn Asn Asn Gly Gln Ser Ser His Leu Gly
          20           25           30
Val Lys Ala Phe Ala Phe Met Trp Thr Ser Val Ala Leu Leu Phe Leu
          35           40           45
Ser Cys Val Ile Tyr Cys Met Gly Gly Ala Val Gly Arg Lys Asp Gly
          50           55           60
Gly Tyr Ser Gly Arg Glu Gln Arg Arg Arg Gly Phe Phe Asn Ser His
          65           70           75           80
Arg Ser Gly Ser Leu Arg Ser Asn Lys Glu Thr Ala Pro
          85           90

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<210> 30256

<211> 104

<212> PRT

<213> A.fumigatus

<400> 30256

```

His Thr Ala Ile Gly Val Gly Leu Gly Phe Leu Gly Leu Phe Phe Thr
1           5           10           15
Ala Ser Ala Leu Leu Leu Met Phe Leu Ala Phe Leu Gly Gly Ala Arg
          20           25           30
Asn Ser Asn Pro Leu Asp Arg Ile Tyr Trp Leu Glu Ala Ala Thr Gly
          35           40           45
Asn Ile Pro Gly Ala Pro Ala Leu Ser Arg Trp Thr Tyr Trp Asn Leu
          50           55           60
Cys Ala Val Asn Ser Glu Gly His Asn Glu Cys Gly Lys Ser Tyr Pro
          65           70           75           80
Asp Tyr Pro Phe Asp Pro Pro Ser His Arg Asn Phe Asn Thr His Val
          85           90           95
Asn Ile Pro Ala Ala Phe Ile Gly
          100

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<210> 30257

<211> 63

<212> PRT

<213> A.fumigatus

<400> 30257

Tyr Asn Cys Asn Ala Gln Val Ala Phe Phe Cys Gly Thr Cys Ser Lys
 1 5 10 15
 Ser Ser Ser Arg Leu Cys Ser Asp Arg Leu Asn Asn Val Val Trp Ala
 20 25 30
 Phe Asp Ala Ser Phe Leu Ala Leu Pro Ser Asn Phe Pro Asn Tyr Phe
 35 40 45
 Leu Pro Lys Tyr Tyr Val Leu Gln Ala Leu Arg Arg Val Lys Arg
 50 55 60

<210> 30258

<211> 119

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (4), (6)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30258

Ala Gln Tyr Xaa Ala Xaa Lys Asn Gly Gly Asp Val Phe Val Arg Val
 1 5 10 15
 Cys Glu Gly Val Arg Glu Ile Lys Val Thr Lys Pro Glu Pro Lys Pro
 20 25 30
 Lys Glu Glu Lys Pro Pro Lys Ala Glu Asp Asp Glu Asp Glu Asp Ser
 35 40 45
 Asp Phe Asp Ser Asp Glu Asp Glu Glu Glu Glu Ile Arg Glu Ile Val
 50 55 60
 Trp Lys Thr Glu Lys Pro Ile Ala Glu Leu Ala Val Lys Gly Val Lys
 65 70 75 80
 Ala Gly Ser Lys Val Glu Leu Met Val His Val Asn Ala Asp Leu Gly
 85 90 95
 Met Gln Ile Thr Ala Arg Glu Val Gly Gly Gln Asn Ala Val Arg Gly
 100 105 110
 Ala Val Glu Ser Pro Lys Ala
 115

<210> 30259

<211> 142

<212> PRT

<213> A.fumigatus

<400> 30259

Thr His Leu Thr Phe Asp Val Ser Tyr Ser Ser Phe Glu Arg Leu Glu
 1 5 10 15
 Thr His Asp Tyr Gln Ile Ser Lys Met Arg Ile Leu Tyr Phe Pro Leu
 20 25 30
 Leu Ala Ser Ser Phe Leu Val Thr Arg Thr Leu Ala Thr Asp Thr Ile
 35 40 45
 Ser Thr Asn Glu Val Ser Thr Cys Leu Ala Ser Ser Asp Val Glu Val
 50 55 60
 Arg Glu Leu Ser Val Thr Tyr Thr Arg Ser Thr Arg Glu Val Val Phe
 65 70 75 80
 Arg Ile Asp Gly Thr Ser Lys Lys Val Gln Asn Val Thr Ala Ser Leu
 85 90 95

Thr Val Thr Ala Tyr Gly Asn Gln Val Tyr Ser Lys Asp Phe Asp Pro
 100 105 110
 Cys Asn Ser Asp Asn Tyr Val Ala Gln Leu Cys Pro Gly Met Tyr His
 115 120 125
 His Pro Ala Lys Ala Val Asn Gln Tyr Pro Leu Ile His Ala
 130 135 140

<210> 30260

<211> 990

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (244), (952), (990)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30260

Val Arg Gly Pro Phe Gln Pro Arg Gly Glu Asp Cys Ser Leu Thr Ser
 1 5 10 15
 Gly Ser Thr Gly Val Pro Lys Gly Val Val Val Pro His Arg Ala Val
 20 25 30
 Cys Cys Ser Ile Arg Ala His Ser Glu Ala Met Asn Ile Asn Thr Thr
 35 40 45
 Ser Arg Ser Leu Gln Phe Ala Ser Tyr Thr Phe Asp Ala Cys Ile Cys
 50 55 60
 Glu Ile Phe Ser Val Leu Val Ala Gly Gly Thr Val Cys Ile Pro Ser
 65 70 75 80
 Glu Glu Glu Arg Val His Asp Leu Ala Gly Phe Ile Thr Arg Ser Gln
 85 90 95
 Ala Asn Trp Ala Phe Phe Thr Pro Thr Val Ile Arg Thr Leu Gly Leu
 100 105 110
 Ser Pro Ser Gln Val Pro Ser Leu Arg Thr Leu Val Leu Gly Gly Glu
 115 120 125
 Val Val Thr Val His Asp Ala Arg Thr Trp Ala Gly His Val Ser Leu
 130 135 140
 Phe Asn Gly Tyr Gly Pro Thr Glu Thr Cys Val Phe Cys Ala Thr Thr
 145 150 155 160
 Pro Ile His Pro Asp Gly Val Thr Tyr Gly Arg Ile Gly Arg Pro Ile
 165 170 175
 Gly Cys Ala Ala Trp Val Val Arg Pro Asp Asn His Asp Ile Leu Leu
 180 185 190
 Pro Pro Gly Cys Pro Gly Glu Leu Leu Ile Glu Gly Pro Ile Val Ser
 195 200 205
 Gln Gly Tyr Leu Asn Asp Pro Val Arg Thr Gln Glu Ala Phe Ile Thr
 210 215 220
 His Pro Ala Trp Ala Gln Asn Arg Lys Leu Ser Gln Asn Gln Ser Ser
 225 230 235 240
 Ala Arg Arg Xaa Tyr Lys Thr Gly Asp Leu Val Arg Gln Ser Pro Asp
 245 250 255
 Gly Thr Leu Val Tyr Met Ala Arg Leu Asp Ser Gln Val Lys Ile Asn
 260 265 270
 Gly Gln Arg Leu Asp Leu Gly Glu Ile Arg His Gln Ile His Ser Val
 275 280 285
 Val Ser Glu Asp Val Gln Val Phe Ile Asp Leu Leu Pro Pro Thr Cys
 290 295 300

Leu Pro Asn Glu Lys Ala Leu Leu Val Ala Phe Leu Ala Ser Thr Arg
 305 310 315 320
 Phe Glu Pro Glu Gln Thr Ser Gly Phe Ser Pro Pro Ile Lys Thr Leu
 325 330 335
 Thr Ser Gln Leu Glu Gln Asp Leu Pro Arg Leu Leu Pro Arg Tyr Met
 340 345 350
 Ile Pro Ser Val Tyr Leu Pro Leu Ser Ala Ile Pro Leu Thr Ser Gly
 355 360 365
 Gly Lys Val Asp Arg Gln Ala Leu Arg Arg Arg Val Ser Arg Met Ser
 370 375 380
 Met Lys Glu Leu Leu Val Tyr Thr Gly Glu Glu Gln Gly Thr Lys Leu
 385 390 395 400
 Pro Val Ser Thr Ala Glu Glu Gln Gln Met Gln Met Leu Trp Ala Glu
 405 410 415
 Val Leu Arg Ile Pro Pro Glu Thr Ile Gly Ala Ser Asp His Phe Phe
 420 425 430
 Arg Leu Gly Ala Asp Ser Ile Asp Gly Met Lys Leu Val Ala Leu Ala
 435 440 445
 Gln Arg His Gly Ile Leu Ile Thr Leu Ala Asp Ile Phe Arg Ser Pro
 450 455 460
 Arg Leu Ser Asp Leu Ala Thr Leu Leu Glu Ser Pro Ala His Pro Asp
 465 470 475 480
 Asp Ser Lys His Asp Leu Lys Thr Ile Ile Pro Ala Phe Ser Leu Leu
 485 490 495
 Asn Val His Ser Arg Asn Thr Val Leu Lys Glu Ile Lys Ala Asp Tyr
 500 505 510
 Ala Leu Asp Val Ser Gln Ile Glu Asp Ile Tyr Pro Cys Thr Pro Leu
 515 520 525
 Gln Glu Ser Leu Met Ala Ala Ser Ile Gln Ser His Gly Ala Tyr Val
 530 535 540
 His His Leu Val Glu Lys Leu Pro Pro Ser Gly Glu Val Pro Ala Ile
 545 550 555 560
 Ile Ser Ala Trp Gln Ser Val Ile Lys Met Thr Pro Ile Leu Arg Thr
 565 570 575
 Arg Ile Val Gln Thr Val Ser Ala Gly Leu Leu Gln Val Val Leu Lys
 580 585 590
 Glu Ser Val Gln Trp Leu His Arg Arg Gln Ala Ile Gln Glu Tyr Leu
 595 600 605
 Asp Glu Asp Ala Arg His Ser Met Thr Leu Gly Asp Pro Leu Leu Arg
 610 615 620
 Leu Ala Cys Leu His Asp Pro Gly Thr Pro His Thr Gly His Ile Val
 625 630 635 640
 Ile Thr Ile His His Ser Ile Tyr Asp Gly Trp Ser Leu Pro His Ile
 645 650 655
 Arg Lys Leu Val Tyr Ala Thr Gln Asn Gly His Pro Cys Ser Thr Ser
 660 665 670
 Leu Pro Phe Asn Arg Phe Ile His Tyr Leu Glu Gln Lys Ser Asp Ser
 675 680 685
 Arg Ala Ser Asp Ser Phe Trp Gln Ser Phe Leu Tyr Arg Ser Gln Pro
 690 695 700
 Leu Ala Phe Pro Pro Leu Pro Ser Thr Gly Tyr Gln Pro Val Gly Thr
 705 710 715 720
 Asp Ser Val Gln Leu Ser Val His Trp Pro Ser Thr Phe Pro Pro Ser
 725 730 735
 Ala Phe Thr Leu Ser Thr Phe Val Arg Val Ala Trp Ala Leu Val Leu
 740 745 750

11450

Gly Ser Tyr Ser Gly Thr Asp Asp Val Ile Phe Gly Leu Ser Leu Ser
 755 760 765
 Gly Arg Asp Thr Pro Ile Pro Gly Ile Leu Asp Ile Leu Gly Pro Thr
 770 775 780
 Ile Cys Thr Val Pro Phe Arg Val Lys Phe Ser Gly Glu Ser Phe Gly
 785 790 795 800
 Ala Leu Leu Glu Arg Ala His Ala Asp Ser Ala Ala Met Leu Pro Tyr
 805 810 815
 Gln His Ile Gly Leu His His Ile Arg Gln Leu Gly Pro Asp Cys Gln
 820 825 830
 Leu Ala Cys Asp Phe Gln Thr Leu Leu Val Ile Gln Pro Ala Arg Asp
 835 840 845
 Pro Ser Asp Pro Glu Pro His Ser Glu Leu Thr Phe Thr Ser Ser Gly
 850 855 860
 Gly Leu Thr Tyr Ala Phe Ala Leu Ile Cys Gln Pro His Pro Ser Gly
 865 870 875 880
 Ile Glu Leu His Gly Asp Phe Asp Ser Asn Cys Val Ser Arg Pro Val
 885 890 895
 Ala Glu Arg Leu Leu Ser Gln Met Lys Ser Val Met Gly Thr Leu Ile
 900 905 910
 Phe Gly Asp Arg Arg Lys Leu Ala Ala Glu Val Asp Val Ile Gly Ile
 915 920 925
 Ser Gln Lys Ala Thr Leu Ala Thr Trp Gln Arg Glu Pro Leu Gln Pro
 930 935 940
 Gly Glu Gly Arg Val Glu Asp Xaa Ile Ile Ser Arg Ala Gln Gln Ala
 945 950 955 960
 Pro Asp Asp Leu Ala Ile His Ala Trp Asp Gly Glu Leu Thr Tyr Asn
 965 970 975
 Glu Leu Val Lys Glu Phe Ala Thr Leu Ala Arg Lys Ser Xaa
 980 985 990

<210> 30261

<211> 79

<212> PRT

<213> A.fumigatus

<400> 30261

Ser His Ser Thr Tyr Glu Phe Cys Ala Arg Arg Lys Arg Ile Thr Val
 1 5 10 15
 Ala Val Lys Glu Arg Tyr Asn Asn Gln Ile Val Ser Ala Gly Gln Leu
 20 25 30
 Leu Ser Leu Thr Gly Glu Val Lys Gln Asn Ile Thr Arg Asp Val Val
 35 40 45
 Ser Ala Ala Asp Pro Ala Ser Ala Tyr Ser Arg Gly Gly Val Asp Gly
 50 55 60
 His His Leu Leu Leu Phe Gly Thr Thr Thr Leu Pro Cys Glu Asn
 65 70 75

<210> 30262

<211> 112

<212> PRT

<213> A.fumigatus

<400> 30262

His Phe Met Leu Tyr Cys Ala Val Val Ile Phe Ser Lys Ser Tyr Cys
 1 5 10 15

11451

Pro Tyr Ser Lys Arg Ala Lys Thr Ile Leu Leu Glu Lys Tyr Asn Ile
 20 25 30
 Val Pro Ala Pro His Val Val Glu Leu Asp Gln His Ala Met Gly Gln
 35 40 45
 Gln Leu Gln Ser Leu Leu Ala Lys Asn Thr Gly Arg Arg Thr Val Pro
 50 55 60
 Asn Val Leu Val Asn Gly Lys Ser Ile Gly Gly Gly Asp Asp Val Thr
 65 70 75 80
 Ala Leu Asp Glu Lys Glu Glu Leu Ala Ser Thr Leu Lys Asn Leu Gly
 85 90 95
 Gly Lys Trp Ile Gln Glu Phe Asn Arg Lys Gly Pro Asn Glu Ala Gly
 100 105 110

<210> 30263

<211> 230

<212> PRT

<213> A.fumigatus

<400> 30263

Leu Thr Ser Thr Ile Ala Phe Leu Ala Ser Phe Leu Asp Val Gln Pro
 1 5 10 15
 Arg Thr Ser Trp Thr Arg Arg Gly Ser Ala Trp Lys Asn Ser Arg Trp
 20 25 30
 His Ser Arg Lys Gly Thr Cys Leu Gln Val Ala Leu Val Arg Gln Cys
 35 40 45
 Ser Arg Phe Leu Val Met Gly Leu Thr Gln Ser Asp His Met Glu Thr
 50 55 60
 Ala Val Asp Tyr Gly Leu Thr Phe Phe Val Ala Lys Ala Gly Asp Ser
 65 70 75 80
 Gly Glu Gln Gly Asp Gly Thr Asp Val Ala Ser Lys Asp Lys Ser Leu
 85 90 95
 Arg Val Val Ser Lys Gln His Leu Ser Thr Gly Ile Ser Val Gly Met
 100 105 110
 Arg Met Pro Ser Phe Lys Val Leu Asn Gln Ser Asp Ala Arg Pro Trp
 115 120 125
 His Leu Gln Glu Leu Leu Lys Ser Asn Ala Arg Trp Arg Val Ile Val
 130 135 140
 Phe Ala Gly Asp Leu Thr Asn Pro Glu Asn Phe Asp Arg Tyr Ser Gln
 145 150 155 160
 Leu Gly Glu Lys Leu Ser Ser Pro Thr Ser Phe Leu Arg Arg Tyr Thr
 165 170 175
 Pro Arg Gly Gln Pro Ile Asp Ser Val Ile Glu Val Leu Thr Val His
 180 185 190
 Ala Gly Pro Arg Thr Ser Ile Glu Leu Leu Asp Leu Pro Glu Ile Phe
 195 200 205
 His Pro Tyr Arg Glu Lys Gln Gly Trp Asp Tyr Arg Ser Ser Pro Arg
 210 215 220
 Gly Trp Lys Asp Arg Val
 225 230

<210> 30264

<211> 67

<212> PRT

<213> A.fumigatus

<400> 30264

11452

Tyr Ala Asn Leu Phe Tyr Leu Thr Leu Asp Lys Met Thr Asn Leu Asn
 1 5 10 15
 Gln Pro Glu Asp His Val Asp Val Leu Ile Val Gly Ala Gly Pro Ala
 20 25 30
 Gly Leu Met Leu Ala Asn Trp Met Ser Arg Leu Gly Ile Lys Thr Arg
 35 40 45
 Ile Val Asp Lys Arg Ser Thr Lys Val Gly Pro Phe Asp Leu Thr Trp
 50 55 60
 Lys Thr Tyr
 65

<210> 30265
 <211> 343
 <212> PRT
 <213> A.fumigatus

<400> 30265
 Tyr Leu Val Gln Val Phe Ser Gly Gln Ala Asp Gly Leu Gln Cys Arg
 1 5 10 15
 Thr Leu Glu Ile Phe Asp Ser Phe Asp Phe Ala Asp Arg Ala Trp Arg
 20 25 30
 Glu Ser Asn His Met Leu Glu Ile Cys Leu Trp Asn Pro Asp Lys Asp
 35 40 45
 Gly Val Ile Arg Arg Ser Asp Arg Ile Pro Asp Thr Ile Pro Gly Ile
 50 55 60
 Ser Arg Phe Gln Gln Val Val Leu His Gln Gly Arg Ile Glu Arg Phe
 65 70 75 80
 Phe Leu Asp Ser Ile Lys Glu His Ser Asn Ile Thr Val Glu Arg Gly
 85 90 95
 Val Met Pro Thr Ser Phe Glu Phe Asp Ala Ser Lys Ala Ala Asp Val
 100 105 110
 Asp Asp Tyr Pro Ile Thr Val Thr Leu Arg Thr Leu Thr Glu Glu Glu
 115 120 125
 Ala Thr Pro Lys Gln Gln Gln Ala Thr Asn Gly Ala Ala Val Ser Asp
 130 135 140
 Gly Leu Phe Arg Ser Asn Leu Ser Pro Asp Asp Thr Asp Asp Leu Leu
 145 150 155 160
 Arg Ala Ala Glu Leu Asn Ser Arg Ala Asn Gln Thr Gln Val Val Lys
 165 170 175
 Ala Lys Phe Met Val Gly Cys Asp Gly Ala His Ser Trp Val Arg Arg
 180 185 190
 Gln Leu Gly Phe Lys Leu Glu Gly Asp Ser Thr Asp Tyr Ile Trp Gly
 195 200 205
 Val Leu Asp Ile Ile Pro Ile Thr Asp Phe Pro Asp Ile Arg Met Arg
 210 215 220
 Cys Ala Ile His Ser Ala Ser Ala Gly Ser Val Met Val Ile Pro Arg
 225 230 235 240
 Glu Asn Lys Leu Val Arg Leu Tyr Ile Gln Leu Gln Ser Ile Val Thr
 245 250 255
 Gly Gly Gly Lys Ala Asp Arg Ser Lys Ile Thr Pro Asp Met Ile Leu
 260 265 270
 Lys Ser Ala Gln Arg Ile Leu His Pro Tyr Lys Leu Asp Tyr Ser Tyr
 275 280 285
 Cys Asp Trp Trp Thr Ala Tyr Gln Ile Gly Gln Arg Val Gly Asp Lys
 290 295 300
 Phe Ser Leu Glu Glu Arg Val Phe Leu Ala Gly Asp Ala Val His Thr

11453

305 310 315 320
His Ser Pro Lys Ala Gly Gln Gly Met Asn Val Ser Met Gln Asp Ser
 325 330 335
Met Ser His Val Arg Ser Gln
 340

<210> 30266
<211> 100
<212> PRT
<213> A.fumigatus

<400> 30266
Leu Thr Ser Asp His Ser Ala Tyr Asn Leu Gly Trp Lys Leu Ala His
1 5 10 15
Val Ile Lys Gly Tyr Ser Asp Arg Ala Ile Leu Lys Thr Tyr Gln Ser
 20 25 30
Glu Arg Arg Arg Ile Ala Gln Asp Leu Ile Asn Phe Asp Tyr Arg Phe
 35 40 45
Ser Arg Leu Phe Ser Gly Arg Pro Ala Lys Asp Val Met Asp Glu Glu
 50 55 60
Gly Ile Ser Met Glu Glu Phe Lys Met Ala Phe Gln Lys Gly Asn Met
65 70 75 80
Phe Ala Ser Gly Ile Gly Lys Thr Met Gln Pro Leu Pro Ser Asn Gly
 85 90 95
Ala Tyr Ser Val
 100

<210> 30267
<211> 310
<212> PRT
<213> A.fumigatus

<400> 30267
Pro Gln Val Leu Asn Leu Lys Leu Lys Arg Ile Arg Arg Arg Gly Ile
1 5 10 15
Arg Leu Val Asn Arg Glu Arg His Arg Ile Pro Arg Ile Asp Met Ser
 20 25 30
Ile Pro Ala Gln Ile Leu Arg Pro Ile His Leu Thr Ile Met His Ile
 35 40 45
Arg Arg Asn Arg Glu Ala Pro Gly Met His Val Gln Arg Pro Ala Gly
 50 55 60
Arg Gln Pro Gln Arg Arg Gln Leu Ile Gln Leu Gln Leu Pro Arg Pro
65 70 75 80
Arg Gly Asp Ala His Ala Asn Gln His Pro Arg Asn Pro Ile Val Pro
 85 90 95
His Ser Arg Ile Arg Val Glu Leu Glu Ile Arg Arg Arg Lys Arg Ala
 100 105 110
His Pro Val Thr Arg His Val Gln Ile Ile Val Leu Val His Leu Val
 115 120 125
Val Ala Gly Gly Glu Val Pro Arg Ala Arg Gly Val Val Val Ala Val
 130 135 140
Val Arg Val Gly Leu Ala Gln Gln Ala Gly Glu Lys Val Met Gln Leu
145 150 155 160
Pro Pro Ala Gln Pro Val Ala Ala Gln Ala Asp Arg Val Asp Pro Leu
 165 170 175
Gln Leu Ala Asp Pro Pro Arg Arg Ala Gly Gly Asp Leu Leu Val Glu

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<210> 30268
<211> 106
<212> PRT
<213> A.fumigatus
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<210> 30269
<211> 272
<212> PRT
<213> A.fumigatus
```

0 0 00 11 00 10

```
<210> 30270
<211> 80
<212> PRT
<213> A.fumigatus
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<210> 30271
<211> 65
<212> PRT
<213> A.fumigatus
```

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<400> 30271
Asn Asn Asn Arg His Leu Ser Leu Arg Ser Thr Ser Phe Ala Gly Leu
1          5          10          15
Thr Glu Pro Leu Leu Met Leu Gly Val Leu Leu Gly Arg Ala Leu His
          20          25          30
Gln Leu Glu Asn Ala Leu Gly Gly His Ala Ala Phe Met Gly Phe Val
          35          40          45
Gly Ile Asp Gly Phe His Ala His Arg Gln Ile Ser Gly Ser Arg Arg
          50          55          60
Val

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65

<210> 30272
 <211> 187
 <212> PRT
 <213> A.fumigatus

<400> 30272
 Thr Arg Gly Val Val Asp Gly Gly Ile Leu Gly Val Phe Tyr Tyr Lys
 1 5 10 15
 Gly Val Val Leu Arg Gly Pro Pro Leu Phe Lys Gly Arg Asp Met Asp
 20 25 30
 Ala Asn Phe Trp Glu Leu Ser Arg Gly Arg Lys Gly His Phe Leu Gly
 35 40 45
 Gln Leu Gly Gly Pro Ile Phe Trp Lys Asn Phe Pro Val Gly Ser Val
 50 55 60
 Ser Asn Ser Ser Pro Arg Thr Phe Tyr Ser Pro Val Ile Gln Phe Pro
 65 70 75 80
 Ser Phe Gln Val Leu Val Gln Gly Gly Thr Arg Arg Phe Gly Ala Arg
 85 90 95
 Ala Gly Ala Ser Asp Val Lys Thr His Pro Phe Phe Arg Gln Thr Gln
 100 105 110
 Trp Ala Leu Ile Arg His Met Lys Pro Pro Met Ile Pro His Gln Ser
 115 120 125
 Arg Gly Thr Asp Thr Ala Asn Phe Arg Asn Val Lys Glu Ser Ala Ser
 130 135 140
 Val Asp Ile Gly Gly Thr Ser Lys Pro Lys Gly Val Pro Leu Gly Ser
 145 150 155 160
 Gly Leu Ala Thr Pro His Gly Glu Val Ala Asp Pro Phe Glu Glu Phe
 165 170 175
 Asn Ser Val Thr Leu His His Asp Gly Asp Phe
 180 185

<210> 30273
 <211> 111
 <212> PRT
 <213> A.fumigatus

<400> 30273
 Val Ser Thr Ser Gly Arg Ser Glu Asn Gln Asn Ile Gln Asn Pro Asn
 1 5 10 15
 Ile Ser Ser Leu Tyr Pro Leu Arg Asn Arg Thr Thr Thr Pro Ser Gln
 20 25 30
 Val Asp Met Phe Ser Phe Asp Asp Asp Pro Ala Ser Ala Ala Ser Arg
 35 40 45
 Asn Cys Ser Ser Ser Ser Pro Ile Thr Thr Glu Asn Pro Leu Leu Arg
 50 55 60
 Ala Ser Asn Pro Leu Val Ser Asp Leu Glu Gln Glu Val Leu Asp Glu
 65 70 75 80
 Tyr Thr Arg Leu Leu Gly Asn Val Asn Lys Val Arg Arg Pro Ser Val
 85 90 95
 Tyr Ala Tyr Ala Ser Ser Pro Met His Glu Trp Pro Leu Ala Ser
 100 105 110

<210> 30274
 <211> 93

11457

<212> PRT
<213> A.fumigatus

<400> 30274

Leu	Val	Pro	Gln	Ala	Ile	Ala	Leu	Glu	Tyr	Leu	Arg	His	Gly	Ala	Arg
1			5					10					15		
Val	Ala	Val	Asn	His	Leu	Gly	Arg	Pro	Asp	Glu	Glu	Pro	Leu	Leu	Glu
		20					25					30			
Ala	Met	Leu	Lys	Asp	Val	Gly	Glu	Ile	Thr	Gly	Ser	Glu	Gly	Gly	Arg
	35					40					45				
Phe	Ile	Thr	Ile	Ala	Gly	Asp	Val	Ser	Gln	Pro	Glu	Thr	Gly	Arg	Asp
	50				55					60					
Phe	Val	Ala	Lys	Thr	Val	Glu	Ala	Phe	Gly	Arg	Leu	Asp	Ile	Phe	Val
65				70				75						80	
Ser	Asn	Ala	Gly	Val	Cys	Lys	Phe	Glu	Glu	Phe	Leu	Glu			
			85					90							

<210> 30275
<211> 186
<212> PRT
<213> A.fumigatus

<400> 30275

Ala	Met	Leu	Glu	Cys	Ala	Ser	Leu	Arg	Ser	Ser	Trp	Ser	Lys	Ser	Ser
1			5					10					15		
Cys	Tyr	Thr	Cys	Leu	Cys	Cys	Lys	Pro	Ser	Val	Gln	Leu	Leu	Thr	Val
		20					25					30			
Gln	Pro	Gly	Arg	Val	Asp	Pro	Pro	Leu	Leu	Gly	His	Thr	Val	Asn	Thr
	35				40						45				
Asn	Leu	Cys	Gly	Ala	Phe	Tyr	Ala	Thr	Gln	Ala	Ala	Arg	Gln	Met	
	50				55				60						
Ala	Leu	Ala	Gln	Ser	Pro	Gly	Gly	Ser	Ile	Ile	Gly	Ile	Ser	Ser	
65				70				75					80		
Ile	Ser	Ala	Leu	Val	Gly	Gly	Gly	Gln	Gln	Thr	His	Tyr	Thr	Pro	Thr
			85					90					95		
Lys	Ala	Gly	Val	Leu	Ser	Leu	Met	Gln	Ser	Thr	Ala	Val	Ala	Leu	Gly
		100					105					110			
Lys	Tyr	Gly	Ile	Arg	Cys	Asn	Ala	Leu	Leu	Pro	Gly	Thr	Ile	Arg	Thr
	115					120					125				
Gln	Leu	Asn	Asp	Glu	Asp	Met	Ser	Asp	Pro	Val	Lys	Arg	Thr	Tyr	Met
	130					135				140					
Glu	Gly	Arg	Ile	Pro	Leu	Gly	Arg	Leu	Gly	Gln	Pro	Pro	Asp	Leu	Ala
145				150				155						160	
Gly	Pro	Ala	Val	Phe	Leu	Ala	Cys	Asp	Glu	Leu	Ser	Gly	Tyr	Val	Val
			165					170					175		
Ser	Ala	Asp	Pro	Tyr	Pro	Trp	Leu	Trp	Leu						
			180				185								

<210> 30276
<211> 79
<212> PRT
<213> A.fumigatus

<400> 30276

Ser	Gln	Ile	Ala	Tyr	Ser	His	Pro	Asp	Ile	Ile	Arg	Phe	Gly	Cys	Asn
1			5					10					15		

11458

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Leu Ser Pro Glu Pro Leu Leu Leu Phe Ile Ser Gln Pro Ser Ser Leu
      20                      25                      30
Lys Asp Ile Leu Tyr Asn Ala Leu Pro Ala Ile Pro Arg Glu Phe Ile
      35                      40                      45
Ala Ala Ser Thr Tyr Ile Ala Asn Trp Pro Val Arg Ser Lys His Asp
      50                      55                      60
Ser Leu Trp Thr Glu Tyr Leu Glu Asn Asn Ile Arg Pro Trp Leu
65                      70                      75

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<210> 30277
 <211> 88
 <212> PRT
 <213> A.fumigatus

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<400> 30277
Leu Glu Trp Ala Lys Val His Leu Ala Pro Phe Gly Val Lys Leu Tyr
1                      5                      10                      15
Lys Asn Tyr Asp Asp Met Leu Lys His Glu Gly Leu Gln Ala Val Val
      20                      25                      30
Val Ala Ser Ala Thr Ala Val His Ala Glu Gln Thr Ile Lys Ala Ile
      35                      40                      45
Glu Ala Asn Lys His Val Leu Cys Glu Lys Pro Leu Ser Thr Ser Val
      50                      55                      60
Glu Ile Val Cys Phe Leu Tyr Leu Leu Phe Phe Ser Val Phe Met Leu
65                      70                      75                      80
Leu Val Ala Pro Ala Thr Ser Ser
      85

```

<210> 30278
 <211> 249
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (62)
 <223> Identity of amino acid sequences at the above locations are unknown.

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<400> 30278
Arg Cys Gln Ser Gln Thr Val Leu Asp Ala Ala Thr Arg Lys Pro Glu
1                      5                      10                      15
Leu Lys Val Met Cys Gly Phe Ser Arg Arg Phe Asp Ala Ser Tyr Arg
      20                      25                      30
Asp Ala His Lys Lys Met Thr Gln Gly Ser Ile Gly Ser Pro Ser Val
      35                      40                      45
Met Arg Ser Gln Thr Cys Asp Lys Leu Asp Pro Thr Gly Xaa Phe Val
      50                      55                      60
Ala Tyr Ala Glu Phe Ser Gly Gly Ile Phe Val Asp Cys Ser Ile His
65                      70                      75                      80
Asp Ile Asp Leu Ala Leu Trp Phe Phe Gly Gln Asp Ser Lys Val Arg
      85                      90                      95
Ser Val Ser Ala Val Gly Ile Thr Ala Val Glu Pro Asp Leu Arg Lys
      100                      105                      110
His Asn Asp Arg Asp Asn Ala Val Gly Leu Val Glu Phe Tyr Asp Gly
      115                      120                      125
Lys Ile Ala Tyr Phe Tyr Ala Ser Arg Met Met Ala Ala Gly Gln Glu

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      130              135              140
Asp Thr Thr Glu Ile Ile Gly Thr Gln Gly Lys Leu Thr Ile Asn Ala
145              150              155              160
Gln Pro Ala Met Asn His Val Asn Ile Phe Asp Ser Thr Gly Val Arg
      165              170              175
Arg Glu Ile Pro Gln Asn Tyr Tyr Asp Arg Phe Glu His Ala Phe Val
      180              185              190
Ala Glu Ala Asn Glu Phe Thr Ala Ala Cys Leu Asp Asn Lys Asp Val
      195              200              205
Pro Val Lys Leu Glu Gly Ala Val Gln Ala Val Arg Ile Gly Cys Val
      210              215              220
Leu Gln Glu Ser Leu Ile Thr Gly Gln Lys Ile Phe Phe Asp Glu Ala
225              230              235              240
Gly Asn Arg Ile Asp Lys Pro Arg Leu
      245

```

<210> 30279

<211> 88

<212> PRT

<213> A.fumigatus

<400> 30279

```

Gln Pro Ile Arg Phe Asp Lys Tyr Asp Ile Asn Gln Arg Phe Glu Tyr
1      5      10      15
Val Phe Ser Glu Glu Val Asn Asp Phe Asp Ala Asp Asp Tyr Arg Arg
      20      25      30
Ile Lys Val Thr His Ser Thr Gly His Ile Val Pro Ile Leu His Phe
      35      40      45
Thr Ala Ser Asn Gly Leu Leu Ile Leu Ser Val Asp Lys Ser Glu Leu
      50      55      60
Leu Val Asn Leu Pro Asn Met Lys Leu Leu Asn Tyr Leu Ser Ile Pro
65      70      75      80
Thr Val Ser Gln Ile Gln Lys Val
      85

```

<210> 30280

<211> 137

<212> PRT

<213> A.fumigatus

<400> 30280

```

His Ser Leu Tyr Asp Arg Asp Val Leu Arg Arg His Trp Thr Thr Cys
1      5      10      15
Ala Lys Arg Leu Gln Ser Gly Gln Glu Ile Pro Lys Ala Glu Ser Gly
      20      25      30
Gly Lys His Arg His Ala Cys Asp Val Cys Ala Arg Leu Lys Lys Ala
      35      40      45
Cys Asn Gly Leu Gln Pro Cys Ala Glu Cys Glu Ser Arg Gly Lys Leu
      50      55      60
Cys Ser Tyr Glu Arg Leu Thr Gly Gly Gln Pro Pro Arg Gly Lys Arg
65      70      75      80
Arg Glu Leu Met Ser Val Tyr Ser Glu Gln Gln Asp Trp Glu Thr Lys
      85      90      95
Asp Phe Gly Tyr Gln Thr Leu Leu Pro Ser Lys Ala Ser Met Leu Glu
      100      105      110
Val Gln Ser Gln Cys Arg Ser Ile Thr Trp Gly Ile Asn Arg Gly Pro

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11460

115 120 125
Ile Ala Thr Asn Ser Ile Arg Gln Val
130 135

<210> 30281
<211> 271
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (222), (263)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30281
Pro Asp Ala Met His Leu Leu Arg Val Val Leu Pro Leu Leu Ser Leu
1 5 10 15
Ser Pro Ala Gly Leu Ala Ala Pro Ala Ser Pro Ala Ala Pro Thr Val
20 25 30
Thr Ile Ala Ser Pro Ala Ala Thr Ile Val Gly Ser Ser Gly Lys Val
35 40 45
Glu Lys Phe Asn Ala Ile Pro Phe Ala Gln Pro Pro Thr Gly Pro Leu
50 55 60
Arg Leu Lys Pro Pro Gln Pro Ile Gln Lys Pro Leu Gly Thr Ile Asp
65 70 75 80
Gly Thr Gly Ser Ala Lys Ser Cys Pro Gln Phe Phe Phe Ser Thr Asp
85 90 95
Asn Ser Glu Phe Pro Gly Ser Val Ala Gly Leu Leu Ala Asn Leu Pro
100 105 110
Leu Phe Gln Thr Val Thr Asn Ala Gly Glu Asp Cys Leu Thr Leu Asn
115 120 125
Val Ala Arg Pro Ser Gly Thr Ala Pro Gly Ala Lys Leu Pro Val Leu
130 135 140
Val Trp Ile Tyr Gly Gly Phe Glu Leu Gly Ala Thr Ala Thr Tyr
145 150 155 160
Asp Ala Thr Ser Leu Val Ala Ser Ser Ile Asp Leu Gly Met Pro Ile
165 170 175
Val Phe Val Ala Met Asn Tyr Arg Thr Gly Gly Phe Gly Phe Leu Pro
180 185 190
Gly Lys Glu Ile Leu Ala Asp Gly Ala Ala Asn Leu Gly Leu Leu Asp
195 200 205
Gln Arg Leu Ala Leu Gln Trp Val Ala Asp Asn Ile Ala Xaa Phe Gly
210 215 220
Gly Asp Pro Asp Lys Val Thr Ile Trp Gly Glu Ser Ala Gly Ser Ile
225 230 235 240
Ser Val Phe Asp His Met Ile Leu Tyr Asp Gly Asp Asn Thr Tyr Lys
245 250 255
Gly Glu Ala Arg Val Pro Xaa Arg His His Glu Pro Arg Val Ala
260 265 270

<210> 30282
<211> 151
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE

<222> (8)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30282

```

Pro Cys Leu Gly Arg Arg Gln Xaa Pro Gln Cys Cys Pro Pro Pro Thr
1           5           10           15
Ala Gly Pro Gly Val Gly Pro Arg Ala Pro Gly Trp Pro Pro His Pro
          20           25           30
Pro Gly Ser Pro Ser Pro Ala Gly Ser Gln Ile Pro Pro Phe Asp Ser
          35           40           45
Ser Ser Arg Gln Arg Gln Leu Ala Tyr Pro Gly Arg Ser Ser Leu Pro
          50           55           60
Leu Ala Arg Ser His Arg Thr Trp Pro Trp Arg Pro Ala Arg Ser Arg
65           70           75           80
Arg Arg Arg Ser Thr Arg Gly Arg Ala Ala Ser Arg Leu Glu Leu Cys
          85           90           95
Arg Thr Asp Ala Pro His Ser Gly Ser Gly Asn Pro Leu Gln His Leu
          100          105          110
Ser Arg Ser Gly Arg Gly Glu Gly Trp Pro Arg Asp Arg Arg Arg Thr
          115          120          125
Pro Glu Thr Arg Cys Cys Pro Ser Lys Lys Arg Thr Glu Asp Thr Thr
          130          135          140
Trp Arg Tyr Pro Cys Arg Gln
145           150

```

<210> 30283

<211> 72

<212> PRT

<213> A.fumigatus

<400> 30283

```

Ser Asp Ile Ile Asn Ser His Asn His Leu Asp Cys Leu Ser Cys Lys
1           5           10           15
Phe Asp Gly Ala Gly Ala His Gln Lys Trp Leu Gln Asp Val Leu Leu
          20           25           30
Cys Asp Val Val Ala His Thr Ala Ala Thr Asp Thr Asp Thr Ser Ile
          35           40           45
Val Leu Ala Leu Ser Val Ala Val Ser Gln Leu Gly Asp Asn Leu Asp
          50           55           60
Arg Ile Gln Thr Ser Val Leu Gly
65           70

```

<210> 30284

<211> 222

<212> PRT

<213> A.fumigatus

<400> 30284

```

Gln Leu Gly Asn Met Lys Gly Gln Ser Ile Thr Ala Phe Ile Lys Gly
1           5           10           15
Leu Lys Val Ile Leu Ala Gln Met Glu Ala Leu Pro Gln Ser Ser Cys
          20           25           30
Gln Lys Lys Ala Ile Lys Arg Ala Val Thr Pro Leu Pro Thr Ile Asp
          35           40           45
Ile Asp Leu Gly Asp Asp Glu Leu Phe Pro Cys Glu Cys Ser Leu Gln

```

50		55		60
Gly Ile Asn Ser Leu Asp	Val Thr Tyr Leu Ser Asn Pro Leu Arg Ser			
65	70	75	80	
Ser Leu Lys Thr Lys Glu Cys Gly Leu Asp Tyr Ile Arg Arg Ala Leu				
	85	90	95	
Asp Val Leu Glu Pro Met Ser Thr Cys Thr Arg Cys Thr Gly Lys Asp				
	100	105	110	
His Val Arg Thr Phe Leu Tyr Arg Phe Cys Arg Thr Ile Leu Gln Arg				
	115	120	125	
Cys Arg Val Phe Tyr Gln His Leu Val Arg Thr Tyr Glu Gly Lys Asp				
	130	135	140	
Gln Gln Pro Leu Leu Leu Asp Asp Tyr Gln Leu Ala Thr Val Glu Glu				
145	150	155	160	
Arg Ala Ala Leu Leu Cys Met Leu Thr Tyr Val Glu Ile Lys Arg Phe				
	165	170	175	
His Val Cys Val Gly Ser Ile Ile Glu Thr Leu Gly Asp Gln Pro Met				
	180	185	190	
Phe Asp Glu Asp Ser Trp Ala Val Ile Lys Gly Gln Ala Tyr Lys Leu				
	195	200	205	
Ala Val Asp Thr Ala Glu Leu Arg Phe Lys Ser Ile His Cys				
210	215	220		

<210> 30285
 <211> 102
 <212> PRT
 <213> A.fumigatus

<400> 30285
Gly Ala Arg Glu Leu Ala Gly Thr Glu Ala Ile Cys Trp Lys Ala Phe
1 5 10 15
Ala Asp Ala Met Glu Val Ile Pro Thr Leu Ala Glu Tyr Ala Gly
20 25 30
Leu Asn Ser Ile Lys Val Val Thr Glu Leu Arg His Arg His Ala Gln
35 40 45
Gly Gln His Asn Ala Gly Val Ser Ile Arg Ser Gly Gly Val Arg Asp
50 55 60
Asp Ile Thr Glu Glu Asn Ile Leu Gln Pro Leu Leu Val Ser Thr Ser
65 70 75 80
Ala Ile Glu Leu Ala Ala Glu Thr Val Lys Met Ile Met Arg Ile Asp
85 90 95
Asp Ile Ala Leu Ser Arg
100

<210> 30286
 <211> 112
 <212> PRT
 <213> A.fumigatus

<400> 30286
Gln Ser Lys Leu Ser Gln Arg Arg Asn Asn Met Arg Arg Asn Tyr Leu
1 5 10 15
Pro Ile Glu Thr Leu Ser Ser Trp Ala Lys Leu Asn Gly Ile Ser Leu
20 25 30
Glu Gly Ile Ala Phe Gln Lys Leu Tyr Ser Glu His Gly Thr Asp Lys
35 40 45
Gly Ser Ala Ile Val Ala Thr Ala Glu Lys Lys Asp Glu Glu Gly Glu

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50		55		60
Ala Asn Thr Leu Leu Thr Val Pro Ser Asp Leu Ala Leu Thr Leu Glu				
65		70		80
Tyr Val His Asn His Ala Lys Ile Asp Arg His Leu Arg Glu Val Leu				
	85		90	95
Asp Ala Val Gly Asp Phe Gly Arg Val Cys Tyr Arg Ser Arg Ser Leu				
	100		105	110

<210> 30287
 <211> 179
 <212> PRT
 <213> A.fumigatus

<400> 30287
Tyr Val Gln Thr Ala Arg Gly Ala Ile Leu Ile Phe Leu Ile Ile Gln
1 5 10 15
Ile Thr His Ala Ser Pro Glu Phe Val Asn Lys Arg Gln Lys Ile Gly
20 25 30
Ile Ser Asn Pro Trp Thr Glu Tyr Ile Arg Phe Met Pro Ala Ser Val
35 40 45
Leu Leu Pro Thr Phe Tyr Ser Ala Glu Glu Arg Glu Leu Leu Arg Gly
50 55 60
Thr Ser Leu Gln Thr Ala Val Asp Ala Lys Leu Gly Ser Leu Glu Lys
65 70 75 80
Glu Phe Asp His Leu Arg Gln Ala Thr Glu Glu Ile Pro Trp Cys Gln
85 90 95
Glu His Trp Trp Asp Glu Asp Thr Gly Lys Phe Thr Phe Asp Asp Trp
100 105 110
Lys Tyr Val Asp Ala Val Tyr Arg Ser Arg Val Val Asp Leu Pro Arg
115 120 125
Ser Gly His Ala Ile Val Pro Cys Val Asp Met Ala Asn His Ala Cys
130 135 140
Glu Asp Ser Val Lys Ala Arg Tyr Asp Glu Glu Gly Ala Gly Asn Ala
145 150 155 160
Val Leu Gln Leu Arg Thr Gly Lys Lys Leu Arg Val Gly Glu Glu Val
165 170 175
Thr Ile Ser

<210> 30288
 <211> 79
 <212> PRT
 <213> A.fumigatus

<400> 30288
Phe Ile Ser Cys Val Lys Ser Pro Thr Gly Ser Pro Val Pro Lys Arg
1 5 10 15
Tyr Leu Val Ile Val Met Ile Asp Phe Glu Asp Ile Ser Thr Thr Leu
20 25 30
Pro Ile Pro Asn Ser His Tyr Leu Gln Trp Gly Thr His Asn Ile Gln
35 40 45
Ser Val Thr Glu Lys His Glu Pro Ala Ile Leu Asp Ser Ser Leu Thr
50 55 60
Tyr Ile Glu Ser Phe Ile Gly Gly Val Arg Val Thr Thr Leu Gly
65 70 75

<210> 30289
 <211> 131
 <212> PRT
 <213> A.fumigatus

<400> 30289

```

Pro Pro Arg Asp Thr Pro Leu Thr Glu Glu Ile Gln Tyr Thr Val Pro
1      5      10      15
Gly Thr Thr Leu Leu Gln Gly Leu Leu Ser Leu Leu Ser Thr Tyr Ile
      20      25      30
Arg Asp Thr His Gly Asn Met Asp Leu Ala Asn Leu Ser Gln Leu Gln
      35      40      45
Thr Glu Ala Val Asn Pro Arg Thr Ala Gln Ile Asp Gln Ile Ser Thr
      50      55      60
Leu Glu Met Cys Arg Leu Ile Asn Glu Glu Asp His Cys Val Ala Pro
65      70      75      80
Ser Leu Thr Pro Cys Ile Arg Gln Ile Ala Ala Ala Ile Asp Ala Leu
      85      90      95
Thr Pro Arg Val Arg Asn Gly Gly Arg Val Ile Tyr Val Gly Ala Gly
      100     105     110
Thr Ser Gly Arg Ser Gly Phe Leu Ser Asn Thr Tyr Leu Ala Glu Arg
      115     120     125
Met Arg Asn
      130

```

<210> 30290
 <211> 172
 <212> PRT
 <213> A.fumigatus

<400> 30290

```

Thr Phe Asp Ala Cys Gly Glu Asp His Pro Gly Ser Ala Ser Leu Pro
1      5      10      15
Arg Glu Pro Arg Trp Ser Thr Ser Gln Pro Thr Gln Thr Val Trp Arg
      20      25      30
Leu Pro Ala Pro Pro Tyr Arg Ala Pro Ser Pro Ser Gln Thr Ala Ser
      35      40      45
Trp Pro Ala Trp Pro Ala His Ser Ser Ala Thr Pro Ser Arg Pro Gln
      50      55      60
Ser Pro Gly Thr Ser Cys Thr Arg Arg Gln Gly Trp Pro Pro Arg Arg
65      70      75      80
Gly Asn Ser Ile Ala Arg Pro Ser Thr Ser Ser Lys Ile Pro Ala Lys
      85      90      95
Arg Arg Arg Arg Pro His Arg Arg Tyr Thr Gly Lys Ser Asp Arg Trp
      100     105     110
Thr Ala Arg Ser Ala Cys Ser Arg Cys Pro Val Tyr Ala Pro Gly Pro
      115     120     125
Cys Ala Asp His Thr Ile Ser Gly Thr His Thr Pro Arg Pro Arg Trp
      130     135     140
Pro Cys Arg Ser Arg Arg Gly Thr Ala Ser Pro Pro Val Arg Gly Ser
145     150     155     160
Gly Gly Ser Pro Ala Ala Tyr Arg Gly Ser Gly Arg
      165     170

```

<210> 30291
 <211> 140

<212> PRT

<213> A.fumigatus

<400> 30291

```

Ser Thr Lys Arg Ile Ile Ala Ser Pro Leu Val Ser His His Ala Ser
1          5          10          15
Ala Arg Leu Pro Pro Pro Leu Met Arg Ser Leu His Ala Cys Glu Thr
          20          25          30
Ala Asp Glu Ser Ser Thr Ser Val Gln Gly Gln Val Glu Gly Gln Asp
          35          40          45
Ser Cys Pro Thr Arg Ile Ser Pro Lys Gly Cys Val Thr Asp Leu Asp
          50          55          60
Asp Arg Leu Gly Ile Leu Asp Ala Ser Glu Ile Pro Pro Thr Phe Ala
65          70          75          80
Ala Pro Pro Ser Gln Phe Val Gly Leu Ile Ala Gly Gly Asp Ala Leu
          85          90          95
Phe Asp Glu His Lys Lys Gly Pro Lys Thr Val Phe Pro Arg Gly Lys
          100          105          110
Pro His Ile Ala Thr Phe Glu Ala Gln Ser Pro Thr Gly Lys Arg Pro
          115          120          125
Pro Val Ser Pro Ala Ser Gly Arg Tyr Pro Leu Ile
          130          135          140

```

<210> 30292

<211> 78

<212> PRT

<213> A.fumigatus

<400> 30292

```

Glu Cys Gln Ser Gly Ser Tyr Arg Thr Cys Leu Trp Arg Met Gln Ile
1          5          10          15
Ser Tyr Pro Thr Ser Ser Gly Leu Glu Ser Tyr Ser Asp Leu Pro Gln
          20          25          30
Asp Ile Ser Tyr Ala Leu Ala Met Tyr Val Ile Tyr Glu Leu Thr Lys
          35          40          45
His Arg Arg Arg Asp Arg Leu Pro Ile Gly Leu Leu Thr Pro His Phe
          50          55          60
Gly Arg Lys Gly Gln Gly His Pro Gly Leu Ile Met Ala Arg
65          70          75

```

<210> 30293

<211> 490

<212> PRT

<213> A.fumigatus

<400> 30293

```

Cys Arg Arg Gly Val Gly Arg Ser Leu Pro Thr Ala Val Thr Ala Ile
1          5          10          15
Ser Asp Leu His Thr Leu Met Val Pro Asp Leu Ala Asp Gln Leu His
          20          25          30
Leu Phe Leu Leu Pro Arg Gly Met Val Ser Phe Asn Cys Phe Ser Pro
          35          40          45
Ser Leu Thr Leu Val Ala Asp Val Gln Cys Ser Leu Arg Leu Gly Arg
          50          55          60
Leu Arg Thr Gly Arg Pro Asp Ser Cys Cys Gln Arg Asp Ser Ser Pro
65          70          75          80

```

Ala Arg Gly Asn Ser Cys Tyr Gly Phe Val His Arg Arg Thr Asn Leu
 85 90 95
 Arg Pro Cys Arg Thr Ser Ser Val Leu Ala Asp Arg Arg Met Asp Leu
 100 105 110
 Leu Leu Ile Leu Gly Lys Ser Ile Met Leu Gln Pro Tyr Glu Pro Val
 115 120 125
 Pro Pro Ala Met Thr Asn Thr Asp Ser Val Asp Thr Ala Asn Gly Ala
 130 135 140
 Phe Val Ile Ala Ala Gly Ala Ile Leu Gly Val Gly Ala Ser Phe Leu
 145 150 155 160
 Trp Val Ala Gln Gly Ala Ile Met Thr Thr Tyr Val Pro Glu Ser Gln
 165 170 175
 Lys Gly Arg Ala Ile Ala Ala Phe Trp Ile Ile Phe Asn Leu Gly Gly
 180 185 190
 Gly Val Gly Ser Leu Ala Ser Phe Gly Leu Asn Tyr His Ser His Ser
 195 200 205
 Gly Thr Val Thr Asp Gly Thr Tyr Ile Ala Leu Leu Ile Ile Met Ala
 210 215 220
 Ile Gly Trp Leu Leu Gly Ser Leu Ile Cys Pro Pro Ala Ser Val Arg
 225 230 235 240
 Val Gln Arg Leu Gln Pro Thr Ala Glu Thr Glu Lys Asn Trp Arg Arg
 245 250 255
 Thr Ala Gln Leu Thr Ala Gln Thr Met Asn Asp Trp Arg Val Leu Cys
 260 265 270
 Met Ile Pro Met Phe Phe Cys Ala Asn Val Phe Tyr Ser Tyr Gln Gln
 275 280 285
 Asn Ile Val Asn Gly Met Thr Phe Asn Ile Arg Thr Arg Ser Leu Asn
 290 295 300
 Gly Ser Leu Tyr Trp Ile Ala Gln Met Leu Gly Gly Leu Val Ile Gly
 305 310 315 320
 Leu Ile Leu Asp Met Pro Arg Val Asn Arg Gln Asn Arg Ala Arg Val
 325 330 335
 Gly Trp Leu Phe Leu Phe Ala Thr Gly Met Ala Ile Trp Gly Gly Gly
 340 345 350
 Tyr Ala Phe Gln Lys Trp Tyr Asp Arg Arg Met Ala Gln Gly His Lys
 355 360 365
 Gln Asp Ile Asp Tyr Thr Gln Ser Gly Leu Ser Thr Gly Pro Ile Phe
 370 375 380
 Leu Tyr Ile Phe Tyr Gly Ala Tyr Asp Ala Phe Trp Gln Gly Phe Cys
 385 390 395 400
 Tyr Trp Leu Met Gly Ala Arg Ser Asn Ser Pro Ala Val Ala Ala Ile
 405 410 415
 Leu Val Gly Ala Tyr Lys Thr Phe Gln Ala Thr Gly Gly Ala Met Ala
 420 425 430
 Trp Arg Leu Asn Ala Leu Ala Lys Pro Ala Met Thr Gln Phe Ala Met
 435 440 445
 Asp Trp Gly Leu Cys Met Gly Ala Leu Val Val Ala Ile Pro Ser Val
 450 455 460
 Leu Ala Val Thr Leu Thr Ser Glu Val His Glu Glu Val Arg Gln Thr
 465 470 475 480
 Gln Asp Gly Leu His His Arg Arg Arg Arg
 485 490

<210> 30294

<211> 81

<212> PRT

<213> A.fumigatus

<400> 30294

```

Arg Trp Leu Gln Met Tyr Asn Ala Leu Ser Gly Leu Gly Gly Ser Gly
1           5           10           15
Gln Val Asp Pro Thr Val Ala Ala Asn Ala Thr Val Ala Leu Leu Ala
          20           25           30
Ala Thr Ala Ala Thr Ala Leu Phe Ile Val Gly Pro Ile Phe Asp Arg
          35           40           45
Val Gly Pro Arg Val Cys Leu Leu Ile Gly Gly Trp Thr Tyr Ser Leu
          50           55           60
Tyr Ser Gly Ser Leu Leu Cys Phe Asn Arg Met Asn Pro Phe Pro Leu
65           70           75           80
Gln

```

<210> 30295

<211> 203

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (2), (5)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30295

```

Arg Xaa Val Val Xaa Gln Thr Lys Ser Gly Gln Arg Ser Leu Val Gly
1           5           10           15
Phe Gly Val Leu Ile Tyr Gln Met Leu Leu Gln Gln Ser Pro Phe Arg
          20           25           30
Gly Glu Asp Glu Asp Glu Ile Tyr Asp Ala Ile Leu Ala Asp Glu Pro
          35           40           45
Leu Tyr Pro Ile His Met Pro Arg Asp Ser Val Ser Ile Leu Gln Lys
          50           55           60
Leu Leu Thr Arg Glu Pro Glu Leu Arg Leu Gly Ser Gly Pro Thr Asp
65           70           75           80
Ala Gln Glu Val Met Ser His Ala Phe Phe Arg Asn Ile Asn Trp Asp
          85           90           95
Asp Ile Tyr His Lys Arg Val Pro Pro Pro Phe Leu Pro Thr Ile Ser
          100          105          110
Ser Pro Thr Asp Thr Ser Asn Phe Asp Gln Glu Phe Thr Ser Val Thr
          115          120          125
Pro Val Leu Thr Pro Val Gln Ser Gly Lys Leu Ser Pro Val Gly Ile
          130          135          140
Gly Gly Phe Lys Ala Asn Asp Val Ile Ser Ser Ser Leu Pro Ser Asp
145          150          155          160
Ala Gly Gly Ile Pro Arg Leu Leu Val His Arg Gly Leu Arg Leu Gly
          165          170          175
Tyr Ser Val Leu Ile Glu Asn Tyr Arg Asp Ile Ala Phe Val Ala His
          180          185          190
Ser Pro Asn Gln Val Leu Gly Thr Phe Ala Phe
          195          200

```

<210> 30296

<211> 123

<212> PRT

<213> A.fumigatus

<400> 30296

Gln Leu Gly Val Leu Cys Pro Arg Arg Gly Arg Val Glu Asp Gly His
 1 5 10 15
 Asn Val Leu Val Ser Thr Thr Leu Ala Val Glu Ser Leu Phe Pro Cys
 20 25 30
 Lys Asp Arg Tyr Leu Pro Asp Tyr Ser Glu Ser Ser Leu Ser Ser Arg
 35 40 45
 Leu Glu Ala Ile Ser Ala Tyr Asp Ala Asp Thr Thr Leu Ile Pro Gln
 50 55 60
 Gln Thr Ser His Tyr Glu Tyr Gly Ala Glu Ser Ile Ala Pro Trp Ser
 65 70 75 80
 Glu Thr Asn Val Ser Asn Thr Leu Pro Gln Thr His Thr Thr Thr Thr
 85 90 95
 Gly Asp Thr Val Thr Lys Pro Ala Lys Gln Ala Arg Lys Met Ala Glu
 100 105 110
 Tyr Thr Ala Gly Ala Arg Ile Arg Arg Lys Arg
 115 120

<210> 30297

<211> 108

<212> PRT

<213> A.fumigatus

<400> 30297

Leu Ser Pro Asp Gln Lys Leu Arg Ile Phe His Lys Ser Lys Ile Leu
 1 5 10 15
 Pro Leu Glu Ser Gln Asp Ser Thr Leu Leu Val Ser Thr Val Gly Arg
 20 25 30
 Phe Thr Ala Ala Asn Leu Gly Asn Leu Gln Ile Glu Phe Pro Ser Val
 35 40 45
 Leu Leu Pro Asn Ser Ile Thr Ser Gly Ser Ile Val Asp Ile Thr Val
 50 55 60
 Ser Arg Asn His Ala Ala Glu Ala Ala Ser Thr Ser Ala Phe Gln Ala
 65 70 75 80
 Leu Gln Lys Arg Ile Leu Asn Thr Tyr Arg Val Lys Thr Leu Pro Leu
 85 90 95
 Leu Ser Ser Gly Ser Ala Thr Gln Gln Lys Thr Ser
 100 105

<210> 30298

<211> 66

<212> PRT

<213> A.fumigatus

<400> 30298

Asp Cys Leu Arg Val Ile Ala His Val Glu Leu Thr Cys Ala Phe Asp
 1 5 10 15
 Lys Leu Pro Leu Tyr Ser Leu Ser Gly His His Ala Lys Val Lys Val
 20 25 30
 Arg Phe Trp Gly Leu Pro Arg Ser Ser Gly His Arg Leu Leu Ala His
 35 40 45
 Gln Tyr Ser Val Glu Ala Lys Ser Gln Lys Thr Ala Asn Thr Asn Gly
 50 55 60

Glu Arg
65

<210> 30299
<211> 75
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30299
Lys Cys Xaa Ala Thr Ala Glu Trp Lys Pro Cys Ser Ser Thr Ala Lys
1 5 10 15
Asn Glu Arg Asp Pro Ser Glu Gly Asn Leu Arg Lys Lys Val Arg Ile
20 25 30
Asn Gln Gly Glu Ile Ser Pro Leu Ser Leu Gly Asp Tyr Gln Lys Gln
35 40 45
Lys Gly Gln Leu Thr Pro Lys Leu Pro Cys Gln Pro Ser Gln Lys Phe
50 55 60
Pro Gly Pro Thr Ala Asn Ala Arg Thr Thr Pro
65 70 75

<210> 30300
<211> 155
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (94), (106), (116)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30300
Arg Val Ala Ser Met Pro Lys Asn Lys Gly Lys Val Ser Cys Arg Tyr
1 5 10 15
Tyr Ser Val Ser Leu Pro Glu Ser Thr Pro Leu Ala Lys Val Phe His
20 25 30
Cys His Phe Val Val Ser Ala Cys Leu Ala Ala Leu His Glu Arg Gly
35 40 45
His His Gly Ile Glu Asn Asp Arg Lys Ile Leu Asp Phe Asp Ile Ala
50 55 60
Thr Asp Phe Leu Ile Phe Ser Tyr Trp Met Leu Thr Phe Val Leu Gln
65 70 75 80
Gly Gly Lys Asn Arg Arg Arg Gly Lys Asn Glu Asn Asp Xaa Glu Lys
85 90 95
Arg Glu Leu Val Phe Gln Glu Lys Ser Xaa Glu Tyr Ala Gln Val Leu
100 105 110
Lys Met Leu Xaa Asn Gly Arg Met Glu Ala Met Phe Phe Asp Arg Glu
115 120 125
Lys Arg Thr Gly Pro Ile Arg Arg Gln Pro Glu Glu Lys Gly Pro Asp
130 135 140
Gln Pro Gly Arg Asn Leu Pro Pro Leu Pro Gly
145 150 155

<210> 30301
 <211> 93
 <212> PRT
 <213> A.fumigatus

<400> 30301
 Tyr Pro Arg Ala Glu Asn Gly Asn Leu Asp Arg Leu Pro His His Val
 1 5 10 15
 Arg Asp Arg Ser Ser Cys Leu Gly Val His Arg Pro Asp Arg Ile Arg
 20 25 30
 Ile Leu Gly Val Val Leu Gln Ser Ile Ser Ala Asn Tyr Gly Met Phe
 35 40 45
 Leu Ala Ala Arg Phe Leu Ile Gly Phe Gly Val Ala Ile Ala His Gly
 50 55 60
 Ala Ser Pro Leu Leu Ile Thr Glu Leu Val His Thr Gln His Arg Ala
 65 70 75 80
 Ile Phe Thr Thr Ile Tyr Asn Ser Lys Asp Arg Leu Pro
 85 90

<210> 30302
 <211> 274
 <212> PRT
 <213> A.fumigatus

<400> 30302
 Pro Ala Ile Ala Thr Trp Tyr Leu Gly Ala Ile Val Ala Ala Trp Leu
 1 5 10 15
 Thr Phe Gly Thr Asn Asn Ile Asp Ser Asn Trp Ser Trp Arg Ala Pro
 20 25 30
 Thr Val Val Gln Ala Ala Pro Ser Ile Leu Gln Ile Val Phe Val Trp
 35 40 45
 Phe Val Pro Glu Ser Pro Arg Phe Leu Ile Tyr Lys Gly Lys Asp Glu
 50 55 60
 Gln Ala Leu Lys Val Leu Ala Asp Cys His Ala Asn Gly Asn Gln Gln
 65 70 75 80
 Asp Glu Val Val Gln Leu Glu Met Gln Glu Ile Lys Glu Thr Ile Arg
 85 90 95
 Leu Glu Lys Glu Phe Glu Ser Ser Ser Trp Met Glu Leu Val Arg Thr
 100 105 110
 Lys Gly Asn Arg His Arg Leu Ile Ile Cys Ile Thr Ala Gly Phe Phe
 115 120 125
 Ser Gln Trp Ser Gly Asn Gly Leu Val Ser Tyr Tyr Ile Ala Lys Ile
 130 135 140
 Leu Thr Ser Ile Gly Tyr Thr Ser Ser Val Gln Gln Asn Leu Ile Asn
 145 150 155 160
 Gly Cys Leu Gln Ile Leu Asn Met Ile Val Ala Leu Thr Met Cys Phe
 165 170 175
 Phe Val Asp Lys Ile Gly Arg Arg Lys Leu Phe Leu Val Ser Thr Ala
 180 185 190
 Gly Met Leu Val Ala Phe Val Val Trp Thr Ile Cys Ser Ala Arg Tyr
 195 200 205
 Ala Ile Ala Gly Asn His Asn Ala Ala Asn Ala Val Ile Ala Met Ile
 210 215 220
 Tyr Leu Tyr Tyr Val Phe Tyr Asn Ile Ala Trp Ser Gly Leu Leu Val
 225 230 235 240

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Gly Tyr Thr Val Glu Ile Leu Pro Tyr Ser Ile Arg Ala Lys Gly Met
 245 250 255
 Thr Val Met Trp Leu Cys Ile Asp Leu Ala Cys Lys Trp Phe Arg Arg
 260 265 270
 Arg Val

<210> 30303
 <211> 70
 <212> PRT
 <213> A.fumigatus

<400> 30303
 Arg Ser Ala Val Phe Phe Asn Gln Tyr Ile Asn Pro Ile Ala Leu Glu
 1 5 10 15
 Asn Leu Gly Trp Lys Tyr Tyr Ile Phe Tyr Cys Val Trp Leu Gly Val
 20 25 30
 Glu Leu Thr Val Val Trp Phe Phe Tyr Ile Glu Thr Arg Asn Thr Pro
 35 40 45
 Leu Glu Glu Ile Ala Lys Ser Leu Arg Ser Ser Leu Thr Gly Ala Gly
 50 55 60
 Arg Pro Arg Ala Tyr Val
 65 70

<210> 30304
 <211> 94
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (39), (64), (85), (87)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30304
 Thr Ser Pro Arg Ser Gly Ser Leu Gly Leu Pro His Arg Ser Gly Asp
 1 5 10 15
 Asn His Arg Pro Ala Gly His Gly Ala Ala Gly Pro Asp Arg Thr Arg
 20 25 30
 Pro Gly His Ala Gly Gln Xaa His Gly Gly Gly Ala Arg Asp Leu Arg
 35 40 45
 Ala Thr Arg Val Pro Gly Gly Val Pro Gly Pro Arg Ala Leu His Xaa
 50 55 60
 Gly Gln Gly Pro His Arg Ser Asp Cys Ala Ser Ala Cys Cys Ser Tyr
 65 70 75 80
 Cys Arg Lys Cys Xaa Pro Xaa Ala Ile Ala Ala Glu Leu Arg
 85 90

<210> 30305
 <211> 190
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (136), (160), (182), (183)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30305

```

Met His Thr Asp Thr Asp Val Asp Arg Thr Glu His Gln Met Ala Thr
1          5          10          15
Arg Lys Cys Arg Gly Glu Asp Ala Leu Asp Pro Glu Gln Pro Ser Leu
          20          25          30
Pro Pro Ser Glu Ala Asn Glu His Leu Val Glu Ile Pro Gly Val Gln
          35          40          45
Arg Ser Leu Ile Ser Leu Thr Gly Arg Ala Phe Glu Arg Ala Leu Leu
          50          55          60
Trp Arg Leu Asp Trp Tyr Asn Leu Met Tyr Ala Pro Pro Thr Arg Pro
65          70          75          80
Pro Thr Ser Ser His Leu Val Glu Gln Cys Thr Ala Ile Asp Val Tyr
          85          90          95
Arg Arg Val Leu Ala Leu Val Ala Ser Gly Tyr Arg Thr Glu Ala Val
          100          105          110
Thr Ile Ile Gly Gln Gln Val Met Ala Pro Arg Gly Leu Ile Gly Leu
          115          120          125
Gly Gln Asp Thr Leu Asp Ser Xaa Thr Ala Glu Val Arg Glu Ile Phe
          130          135          140
Glu Leu Leu Val Phe Pro Ala Ala Tyr Pro Val Leu Val His Cys Xaa
145          150          155          160
Gln Gly Lys Asp Arg Thr Gly Leu Ile Val Leu Leu Leu Ala Ala Pro
          165          170          175
Thr Ala Gly Ser Val Xaa Xaa Met Pro Ser Pro Arg Asn Tyr
          180          185          190

```

<210> 30306

<211> 60

<212> PRT

<213> A.fumigatus

<400> 30306

```

Tyr Lys Met Glu Ile Leu Lys Leu Ala Phe Ala Ser Pro Glu Ile Asn
1          5          10          15
Pro Val Asn His Lys Ala Arg Ser Ile Pro Val Leu Asn Pro Val Asp
          20          25          30
Arg Tyr Gly Arg Val Phe Phe Phe Ser Trp Phe Gly Phe Met Val Ala
          35          40          45
Phe Leu Ser Trp Tyr Ala Phe Pro Pro Leu Val Ser
          50          55          60

```

<210> 30307

<211> 61

<212> PRT

<213> A.fumigatus

<400> 30307

```

Arg Met Gly Lys Met Ala Asp Leu Ile Asp Cys Pro Met Val Asn Ser
1          5          10          15
Gln Ser Pro Gly Glu Phe Pro Ala Leu Thr Asn Phe Gly Trp Val Ser
          20          25          30
Pro Ala Gln Ala Ile Trp Thr Arg Ser Gly Ser Pro Pro Gly Asp Asn
          35          40          45
Gly Leu Lys Tyr Ala Gln Ser Leu Thr Phe Thr Ser Gly

```

50

55

60

<210> 30308

<211> 75

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (67)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30308

Ser	Asp	His	Ala	Val	Ile	Leu	Ala	Cys	Ser	Leu	Met	Phe	Phe	Ala	Arg
1				5					10					15	
Gln	Ala	Phe	Ala	Gln	Ala	Ile	Lys	Thr	Ser	Tyr	Pro	Asn	His	Leu	Arg
			20					25					30		
Leu	Ser	Ile	His	Glu	Ser	Val	Ala	Gly	Thr	Lys	Leu	Ser	Ile	Ser	Leu
		35					40					45			
Leu	Asn	Thr	Lys	Thr	Gly	Phe	Thr	Thr	Pro	Trp	His	Cys	Ser	Val	Ala
	50					55					60				
Arg	Pro	Xaa	Ser	Pro	Arg	Cys	Gln	Gly	Pro	Arg					
65					70					75					

<210> 30309

<211> 136

<212> PRT

<213> A.fumigatus

<400> 30309

Arg	Phe	Arg	Ser	Gln	Leu	Glu	Ala	Pro	Ser	Gln	Cys	Ser	Thr	Met	His
1				5					10					15	
His	Ser	Asp	Arg	Met	Phe	His	Lys	Glu	Ala	Gly	Ile	Ser	His	Leu	Ile
			20					25					30		
Leu	Asp	Ile	Ile	Leu	Glu	His	Ala	Leu	Asn	Lys	Phe	Asp	Pro	Ala	Pro
		35					40					45			
Asp	Arg	Leu	Gln	Gly	Ala	Ala	Lys	Asn	Phe	Leu	Pro	Ile	Ile	Glu	Arg
	50					55					60				
Phe	Val	Ala	Ala	Gly	Thr	Arg	Ile	Glu	Ala	Cys	Leu	Pro	Ala	Phe	Pro
65					70					75				80	
Phe	Lys	Ser	Ala	Asn	Lys	Val	Tyr	Lys	Val	Leu	Gly	Ser	Leu	Pro	Asp
			85					90					95		
Lys	Ala	Glu	Glu	Leu	Ala	Leu	Asp	Arg	Leu	Asn	Thr	Met	Cys	Ala	Arg
			100					105					110		
Val	Arg	Glu	Val	Tyr	Pro	Pro	Gly	Leu	Gln	Val	Ala	Ile	Ile	Ser	Asp
		115					120						125		
Gly	Ile	Thr	Tyr	Asn	Gly	Arg	Phe								
	130					135									

<210> 30310

<211> 158

<212> PRT

<213> A.fumigatus

<400> 30310

Leu	Gly	Ser	Ile	Arg	Ile	Ile	Ala	Asn	Gln	Ser	Ser	Arg	Ala	Pro	Leu
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1           5           10           15
Asp Leu Leu Cys Ile Ser Asp Gln Asp Thr Trp Ala Tyr Gly Glu Ala
20           25           30
Leu Arg Gln Met Ala Ala Gln Lys Gln Phe Met Tyr Ile Val Phe Ser
35           40           45
Arg Ile Lys Asp Leu Leu Asp Ile Pro Leu Pro Glu Gln Met Ser Glu
50           55           60
Ile Val Tyr Val Ala Asn Cys Thr Thr Phe Arg Arg Leu Leu Leu Asn
65           70           75           80
Lys Tyr Glu Arg Ala Asp Leu Asp Ile Asp His Glu Ile Ala Ser Asn
85           90           95
Pro Asp Thr Lys Leu Thr Tyr Leu Gly Tyr Arg Arg Phe Leu Glu Ser
100          105          110
Asp Leu Lys Tyr Ile Phe Pro Arg Gly Ala His Arg Ser Ala His Ser
115          120          125
Tyr Lys Arg Asp Cys Lys Tyr Leu Ala Lys Gln Met Leu Ile Arg Gly
130          135          140
Asp Val Gly Glu Ala Thr Met Gln Leu Ser Trp Leu Ala Leu
145          150          155

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<210> 30311

<211> 278

<212> PRT

<213> A.fumigatus

<400> 30311

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Ala Gln Thr Val Ala Ala Ile Arg Tyr Tyr Leu Val Trp Asp Gln Cys
1           5           10           15
Pro Arg Leu Met Ser Lys Gly Lys Leu Glu Gln Val Ser Ala Ala Cys
20           25           30
His His Leu Gly Phe Phe Asn Asn Ala Gly Leu Ser Ala His Tyr Lys
35           40           45
Leu Ser Glu Ser Ser Ser Pro Ala Val Ala Asp Leu Arg Gly Leu Val
50           55           60
Tyr Ala Ala Ala Gly Asp Leu Leu Arg Lys His Arg Ile Leu Phe Ala
65           70           75           80
Ile Pro Val Asn Glu Gly Thr Pro Asn Pro His Phe Ala Cys Leu Pro
85           90           95
Trp Ile Asp Leu Arg Arg Ser Ile Ala Phe Leu Glu Arg Ser Val Pro
100          105          110
Leu Ala Ser Ala Ala Glu Glu Gln Asp Lys Glu Leu Asp Ala Ile Leu
115          120          125
Glu Glu Gln His Asn Ile Asp Phe Gln Thr Asp Tyr Gly Thr Leu Pro
130          135          140
Phe Trp Arg Leu Ile Ile Leu Arg Ser Lys Gly Arg Asn Asp Phe Thr
145          150          155          160
Ala Ser Phe Ile Tyr His His Ala Ile Gly Asp Gly Val Ser Gly Leu
165          170          175
Ala Phe His Lys Ala Phe Cys Asn Ala Leu Glu Ala Ala Ser Ser Ser
180          185          190
Thr Leu Pro Pro Asp Arg Ala Glu Asn Ile Ile Arg Pro Asp Glu Asn
195          200          205
Thr Val Val Leu Pro Pro Leu Glu Glu Leu His Pro Met Pro Ile Ser
210          215          220
Pro Arg Gln Pro Pro Leu Pro Thr Ala Ser Pro Lys Glu Trp Thr Gly
225          230          235          240

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11475

Ala Ser Ile His Leu Pro Cys Lys Ser Arg Trp Ala Ser Leu Tyr Ile
 245 250 255
 Ser Pro Ser Ala Ser Asn Ala Phe Val Gln Glu Cys Lys Glu Met Lys
 260 265 270
 Leu Ser Val Thr Ser Ala
 275

<210> 30312

<211> 605

<212> PRT

<213> A.fumigatus

<400> 30312

Lys Trp Lys Thr Gln Glu Val Leu Gln Asp Pro Gly Ala Glu Trp Leu
 1 5 10 15
 Leu Gly Lys Glu Glu Leu Arg Ala Phe Arg Ala Lys Ala Val Ile Trp
 20 25 30
 Glu Arg Asp Pro His Ile Ser Arg His Arg Asp Asn Ala Ser Trp Arg
 35 40 45
 Pro Ala Pro Gln Phe Ala Thr Pro Val Val Asn Gly Asp Arg Ala Ala
 50 55 60
 Gly Val Asn Thr Ala Ser Gln Gly Thr Asp Tyr Asp Gly Ser Glu Glu
 65 70 75 80
 Ser Phe Gln Gln Ala Gln Thr Glu Pro Ala Ser Gln Ile Ser Ala Ile
 85 90 95
 Glu Asn Leu Val Ala Asn Asp Met Cys Leu Pro Ser Pro Ser Leu Ser
 100 105 110
 Pro Val Ala Ala Leu Asn Ala Met Asn Val Asp Ser Ser Phe Glu Ser
 115 120 125
 Ala Glu Asp Gln Glu Met Asp Thr Asp Ser Ser Leu Asp Asn Asn Ala
 130 135 140
 Ser Arg Leu Ser Asn Val Arg His Leu Asp Asp Ser Lys Thr His Asn
 145 150 155 160
 Leu Ser Pro Ser Arg Ser Gly Asn Leu Pro Gly Ala Ser Glu Ile Arg
 165 170 175
 His Ala Ser Ser Leu Met Asp Ile Pro Ser Val Leu Asp Phe Phe Asp
 180 185 190
 Ser Val Pro Glu Glu Leu Lys Thr Tyr Leu Met Tyr Gln Phe Leu Arg
 195 200 205
 Arg Cys Pro Lys Pro Thr Leu His Phe Val Ala Asp Val Val Asn Pro
 210 215 220
 Ala Leu Lys Cys Asp Phe Leu Ala Leu Leu Pro Leu Glu Leu Ser Leu
 225 230 235 240
 Asn Ile Val Lys Tyr Phe Asp Val Gln Thr Met Cys Arg Ala Ala Gln
 245 250 255
 Val Ser Lys Lys Trp Arg His Ile Ile Asn Ser Asp Glu Lys Thr Trp
 260 265 270
 Lys Asp Leu Phe Asp Arg Asp Gly Tyr Val Leu Thr Asp Gly Glu Leu
 275 280 285
 Glu Arg Ala Ile Lys Glu Gly Trp Gly Trp Gln Phe Pro His Gly Asp
 290 295 300
 Asp Asp Trp Glu Lys Asp Leu Ser Ser Ser Ala Val Ile Lys Pro Glu
 305 310 315 320
 Pro Asp Cys Ala Pro Gly Pro Ala Phe Ser Ser Leu Pro Gly Glu Ser
 325 330 335
 Gly Glu Arg Ala Leu Ser Val Ser Arg Arg Pro Lys Arg Lys Ala Thr

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<210> 30313
<211> 272
<212> PRT
<213> A.fumigatus
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Ile	Leu	Cys	Leu	Ser	Thr	His	Ser	Pro	Gly	Leu	Arg	Pro	Trp	Gln	Thr
1				5					10					15	
Thr	Met	Ser	Lys	Met	Ala	Glu	Leu	Glu	Ile	Ile	Asp	Ser	Lys	Gly	Leu
			20					25					30		
Pro	Leu	Ile	Lys	Gly	Asp	Tyr	Cys	Pro	Ala	Gly	Pro	Gly	His	Leu	Arg
			35				40					45			
Ala	Pro	Cys	Pro	Val	Leu	Asn	Ser	Leu	Ala	Asn	His	Gly	Ile	Ile	Ala
			50			55					60				
Arg	Ser	Gly	Arg	Asn	Ile	Thr	Ala	Ala	Glu	Leu	Lys	Ala	Ala	Leu	Arg
65					70					75				80	
Tyr	Leu	Gly	Met	Gly	Ile	Asp	Val	Ile	Thr	Ile	Leu	Val	Asn	Gly	Ala
				85					90					95	
Phe	Lys	Val	His	Ser	Asp	Asp	Pro	Lys	Lys	Gly	Ala	Leu	Leu	Gly	Leu
			100					105					110		
Arg	Asp	Lys	Asp	Gln	Thr	Asn	Glu	Asp	Gly	Val	Pro	Val	Leu	Asn	Leu
			115				120					125			

11477

Asp Gln Val Gly Arg Pro His Ala Val Glu His Asp Val Ser Val Thr
 130 135 140
 Arg Gln Asp Arg Ala Leu Gly Asp Cys Met Arg Val Asn Ala Asp Leu
 145 150 155 160
 Leu Glu Arg Phe Leu Ala Ala Pro Lys Thr Glu Arg Gly Phe Ser Ala
 165 170 175
 Ser Ala Phe Gly Lys Tyr Arg Lys Thr Arg Tyr Asn Glu Gln Lys Arg
 180 185 190
 Asp Asn Pro Ala Leu Glu Phe Asp Arg Phe Asn His Phe Ser Gly Cys
 195 200 205
 Ala Glu Leu Gly Ala Val Gln Cys Ile Phe Gly Arg Gly Phe Pro Tyr
 210 215 220
 Arg Val Pro Glu Glu Tyr Ile Arg Val Leu Phe Gly Glu Glu Arg Leu
 225 230 235 240
 Pro Ile Glu Glu Gly Trp Lys Pro Arg Arg Leu Pro Leu Leu Leu Pro
 245 250 255
 Glu Leu Ala Pro Val Ile Leu Arg Ile Ser His Phe Ala Ser Pro Phe
 260 265 270

<210> 30314
 <211> 188
 <212> PRT
 <213> A.fumigatus

<400> 30314
 Ser Leu Arg Asp Ala Arg Cys Pro Pro Thr Val Pro Ala Thr Met Phe
 1 5 10 15
 Thr Pro Val Leu Arg Arg Leu Ala Ser Met Lys Ser Arg Ile Pro Leu
 20 25 30
 Ile Ser Gly Leu His Leu Asn Phe Ile Ser Val His Tyr Ile Tyr Ile
 35 40 45
 Ile Ala Met Thr Leu Ile Thr Ser Ile Ile Leu Tyr Pro Gly Gly Asp
 50 55 60
 Leu Ala Tyr Ile Asp Ile Leu Phe Phe Cys Ser Gly Ala Ala Thr Gln
 65 70 75 80
 Ser Gly Leu Asn Thr Val Asp Phe Asn Lys Leu Lys Thr Tyr Gln Gln
 85 90 95
 Val Ile Leu Tyr Phe Ser Ser Met Leu Thr Thr Pro Asp Phe Tyr Pro
 100 105 110
 Leu Arg Pro Arg Leu His Pro Ala Val Leu Val Arg Glu Thr Val Ser
 115 120 125
 Thr His Arg Ala Gly Asn Leu Ser Asp Ala Leu Tyr Gln Gly Arg Glu
 130 135 140
 Met Pro Thr Leu Arg Ser Glu Lys Glu Pro Thr Phe Phe Trp Lys Gly
 145 150 155 160
 Arg Glu Ala Cys Ile Gly Leu Ser Pro Lys Cys Gly Ala Gly Pro Thr
 165 170 175
 Asn Pro Gln Glu Phe Asn Glu Lys Gly Pro Lys Ala
 180 185

<210> 30315
 <211> 217
 <212> PRT
 <213> A.fumigatus

<220>

<221> UNSURE

<222> (93)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30315

Gln Trp Ser Ser Leu Ala Gln Phe Thr Ala Cys Pro Pro Lys Thr Leu
 1 5 10 15
 Asn Gly Arg Ile Thr Leu Asn Phe Tyr Phe Ser Arg Asp Gln Met Val
 20 25 30
 Leu Tyr Gln Leu Gly Asp Cys Tyr Asn Val Asp Asn Tyr Val Ser Val
 35 40 45
 His Tyr Val Gln Thr Leu Arg Asn Ile Thr Arg Phe Arg Cys Ser Leu
 50 55 60
 Ser Pro Ser Ser Ser Thr Ile Arg Arg Asn Thr Pro Phe Phe Ser Cys
 65 70 75 80
 Met Arg Ala Arg Gly Glu Ala Asn Ser Thr Thr Leu Xaa Ala Ser Ser
 85 90 95
 Thr Arg Ile Arg Ser Lys Ser Ala Thr Val Leu Ile Arg Cys Ala Ile
 100 105 110
 Thr Ser Ile Val Val Asp Pro Cys Pro Lys Pro Glu Arg Ile Asp Phe
 115 120 125
 Trp Ile Thr Leu Ser Val Ala Val Ser Thr Ala Asp Val Ala Ser Ser
 130 135 140
 Ser Thr Arg Ile Leu Gly Ala Val Ser Met Ala Arg Ala Arg Gln Ser
 145 150 155 160
 Ser Cys Arg Trp Pro Cys Glu Arg Phe Asp Pro Pro Ser Ala Thr Arg
 165 170 175
 Val Ser Arg Gly Asp Met Cys Val Phe Ser Cys Lys Asp Ser Gly Asp
 180 185 190
 Asp Asp Cys Gln Leu Gly Ala Leu Ala Ala Val Ser Leu Ser Val Glu
 195 200 205
 Asp Val Leu Pro Tyr Cys Ala Asn His
 210 215

<210> 30316

<211> 417

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (1), (377)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30316

Xaa Lys Leu Leu Ser Ser Ser Leu Ser Gly Leu Trp Thr Ile Arg Ser
 1 5 10 15
 Tyr Gln Arg Val Asp Ser Phe Ile Asn Arg Met His Gly Leu Ile Asp
 20 25 30
 Arg His Ala Arg Val Tyr Trp Asn Leu Cys Leu Leu Asn His Trp Leu
 35 40 45
 Asn Leu Arg Val Ser Met Ser Gly Ala Leu Phe Thr Thr Ala Ala Ala
 50 55 60
 Met Thr Phe Thr Leu Leu Gln Asp Leu Lys Ala Ser Ser Thr Gly Phe
 65 70 75 80
 Ala Ile Ser Phe Ile Ile Gln Leu Ser Ala Ala Leu Ala Met Ala Ile

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<210> 30317
<211> 154
<212> PRT
<213> A.fumigatus
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<400> 30317
Gly Asp Ala Thr Ile Lys Cys Phe Gly Arg Thr Gly Cys Lys Leu Arg
1          5          10          15
Glu Arg Ala Pro Leu Ser Leu Asn Leu Leu Arg Ser Glu Ser Ala Val
          20          25          30
Arg Thr Cys Phe Arg Phe Thr Ile Ser Gln Arg Thr Thr Thr Thr
          35          40          45

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11480

Lys Thr Lys His Ser Met Ala Pro Pro Ala Val Thr Ala Leu Gln His
 50 55 60
 Leu Ser Asn Ala Leu Ala Thr Pro Glu Gln Leu Ser Ser Ser Ser Ser
 65 70 75 80
 Ser Ile Asp Gly Val Thr Pro Asp Leu Glu Ala Ser Leu Arg Phe Ala
 85 90 95
 Gly Ala Gln Leu Thr His Ala Ala Gly Ile Leu Leu Arg Leu Ser Gln
 100 105 110
 Asp Ile Ile Ala Gln Ala Ile Val Thr Tyr Thr Arg Phe Trp Ile Gly
 115 120 125
 Pro Glu Gly Gly Ser Met Arg Ile Tyr Ser Val Lys Val Cys Pro Leu
 130 135 140
 Arg Phe Asn Cys Cys Ile Leu Val Ala Asn
 145 150

<210> 30318

<211> 253

<212> PRT

<213> A.fumigatus

<400> 30318

Leu Ala Ile Leu Ile Tyr Leu Pro Leu Arg Ser Leu Ser Ser Lys Pro
 1 5 10 15
 Leu Val Glu Asn Ile Ser Ile Met Asp Ile Asn Ser Leu Leu Ser Pro
 20 25 30
 Asp Ser Asn Pro Gln Ser Gly Arg Ser Thr Pro Gly Asn Gly Ser Met
 35 40 45
 Ser Ala Asn Asn Ala Pro Ala Ala Thr Ser Arg Pro Ser Asn Lys Pro
 50 55 60
 Leu Arg Lys Gly Arg Thr Thr Pro Ala Arg Pro Thr Met Thr Ser Ser
 65 70 75 80
 Pro Leu Ala His His Val Tyr Ala Pro Ser His Leu Asn Asp Pro Ser
 85 90 95
 Pro Pro Ala Thr Ser Ser Pro Ser Val Gly Pro Asn Ile Gly Gly Gly
 100 105 110
 Asn Gly Thr Pro Pro Ser Val Asp Leu Pro Pro Ser Arg Gln Ala Ser
 115 120 125
 Thr Pro Gly Met Asp Thr Leu Ala Asp Leu Ala Ser Met Gln His His
 130 135 140
 Gln Pro Gln Arg Ser Asn Thr Ser Ile Leu Arg Gly Thr Glu Ser Tyr
 145 150 155 160
 Glu Ser Gln Leu Ser Pro Ser Thr Met Tyr Pro His Val Asn Pro Ile
 165 170 175
 Ser His Asn Thr Pro Thr Pro Arg Thr Ser Phe Asp Ile Ala Met Ser
 180 185 190
 Glu Gly Pro Arg Glu Gly Ala Ala Arg Arg Asn Tyr Ala Asp Thr Ser
 195 200 205
 Leu Arg Pro Asp Ala Gln Arg Met Ala Thr Glu Leu Phe Ala Gln Ile
 210 215 220
 Gln Asp Asn Pro His Ile Tyr Glu Ala His Val Asn Phe Ile Arg Leu
 225 230 235 240
 Leu His Glu Gly Phe Val Asn His Val Tyr Pro Pro Asn
 245 250

<210> 30319

<211> 95

<212> PRT

<213> A.fumigatus

<400> 30319

Lys Lys Asp Lys Ala Arg Ile Thr Ala Leu Phe Cys Cys Asn Ala Asp
 1 5 10 15
 Gly Ser Glu Lys Leu Leu Pro Trp Phe Ile Asp Thr Ala Lys Asn Pro
 20 25 30
 Arg Ala Phe Gln Ala Ala Gly Val Asn Ile Arg Asn Leu Asn Leu Ile
 35 40 45
 Trp Arg Ser Asn Gln Lys Ala Trp Ile Thr Thr Leu Ile Phe Thr Asp
 50 55 60
 Phe Leu Arg Trp Phe Asp Lys Gln Met Ser Gly Arg Asn Val Val Leu
 65 70 75 80
 Leu Ile Asp Asn Phe Ser Ala His Gln Ala Thr Val Thr Glu Ile
 85 90 95

<210> 30320

<211> 226

<212> PRT

<213> A.fumigatus

<400> 30320

Ser Ser Gly Tyr Pro Leu Gln Asn Thr Leu Ile Ile Trp Leu Pro Ala
 1 5 10 15
 Asn Ser Thr Ser Arg Tyr Gln Pro Leu Asp Gln Gly Ile Ile His Cys
 20 25 30
 Trp Lys Leu Tyr Trp Lys Gln Tyr Trp Ile Arg Phe Ile Leu Gln Glu
 35 40 45
 Phe Glu Leu Asn Tyr Asp Leu Ile Ile Leu Met Asn Ile Leu Arg Ala
 50 55 60
 Val Arg Trp Gly Ile Gln Ser Trp Glu Phe Glu Leu Ser Gly Gln Val
 65 70 75 80
 Ile Gln Asn Cys Phe Gln Lys Ala Leu Asp Ser Gln Pro Ser Tyr Gln
 85 90 95
 Glu Pro Val Asn Pro Ala Val Leu Asp Asp Ile Gln Asn Ala Phe Ser
 100 105 110
 Leu Leu Lys Leu Ser Thr Pro Ile Gln Asp Leu Ile Asp Ile Asp Thr
 115 120 125
 Phe Leu Asn Pro Ala Glu Glu Ala Ile Gln Asp Thr His Glu Asp Ile
 130 135 140
 Lys Ser Gln Ile Leu Ala Gln Tyr Gly Pro Glu Leu Asp Asp Asp Ser
 145 150 155 160
 Glu Glu Glu Leu Glu Ile Leu Pro Gln Ile Ser Leu Asp Gln Ala Leu
 165 170 175
 Glu Ala Leu Arg Thr Leu Cys Leu Tyr Glu Glu Gln Gln Ala Glu Gly
 180 185 190
 Ile Pro Ser Leu Ile Tyr Glu Leu Asp Lys His Glu Arg Ile Leu Trp
 195 200 205
 Gly Arg Lys Leu Ser Leu Gln Thr Gln Arg Asp Ile Arg Ser Tyr Phe
 210 215 220
 Thr Gly
 225

<210> 30321

<211> 534

<212> PRT

<213> A.fumigatus

<400> 30321

Phe	Thr	Arg	Ile	Leu	His	Pro	Trp	Ala	Cys	Thr	Ile	Asp	Pro	Ser	Ala	1	5	10	15
Thr	Val	Ala	Asp	Ala	Cys	Val	Ser	Tyr	Val	Thr	Ile	Asp	Ser	Leu	Asn	20	25	30	
Asp	Gln	Ile	Tyr	Ser	Leu	Leu	Gln	Ser	Ile	Thr	Gln	Glu	Thr	Asp	Phe	35	40	45	
Phe	Ser	Tyr	Tyr	Arg	Leu	Asn	Leu	Phe	Asn	Lys	Gln	Cys	Pro	Phe	Trp	50	55	60	
Asp	Asp	Ala	Asn	Ser	Met	Cys	Gly	Asn	Ile	Ala	Cys	Ser	Val	Asn	Thr	65	70	75	80
Ile	Glu	Ser	Glu	Glu	Asp	Ile	Pro	Leu	Thr	Trp	Arg	Ala	Glu	Glu	Leu	85	90	95	
Ser	Lys	Leu	Glu	Gly	Pro	Lys	Ala	Gly	His	Pro	Gly	Arg	Lys	Leu	Gln	100	105	110	
Lys	Glu	Arg	Pro	Ser	Asp	Lys	Pro	Leu	Gln	Gly	Glu	Leu	Gly	Ala	Asn	115	120	125	
Val	Gly	Glu	Ser	Cys	Val	Val	Glu	Tyr	Asp	Asp	Glu	Cys	Asp	Glu	Arg	130	135	140	
Asp	Tyr	Cys	Val	Pro	Glu	Asp	Glu	Gly	Ala	Ser	Gly	Lys	Gly	Asp	Tyr	145	150	155	160
Val	Ser	Leu	Val	Asp	Asn	Pro	Glu	Arg	Phe	Thr	Gly	Tyr	Ala	Gly	Pro	165	170	175	
Gly	Ala	His	Met	Val	Trp	Asp	Thr	Ile	Tyr	Arg	Glu	Asn	Cys	Phe	Leu	180	185	190	
Lys	Ser	Pro	Pro	Glu	Met	Ala	Leu	Ser	Pro	His	Pro	Ser	Leu	Gly	Gly	195	200	205	
Leu	Gln	Ala	Val	Asn	Asp	Phe	Arg	Asn	Val	Leu	Gln	Lys	Glu	Met	Lys	210	215	220	
Arg	Ser	Glu	Gln	Leu	Pro	Phe	Asp	Asn	Glu	Cys	Leu	Glu	Lys	Arg	Val	225	230	235	240
Phe	His	Arg	Val	Ile	Ser	Gly	Met	His	Ala	Ser	Ile	Thr	Thr	His	Leu	245	250	255	
Cys	Trp	Asp	Tyr	Leu	Asn	Lys	Thr	Thr	Gly	Gln	Trp	His	Pro	Asn	Leu	260	265	270	
Gln	Cys	Phe	Lys	Glu	Arg	Leu	His	Asp	His	Pro	Glu	Arg	Ile	Ser	Asn	275	280	285	
Leu	Tyr	Phe	Asn	Tyr	Ala	Leu	Val	Ser	Arg	Ala	Val	Ala	Lys	Leu	Arg	290	295	300	
Lys	His	Leu	Gln	Asn	Tyr	Thr	Phe	Cys	Ile	Ser	Asp	Pro	Leu	Gln	Asp	305	310	315	320
Arg	Glu	Thr	Lys	Glu	Lys	Val	Ser	Gln	Leu	Thr	Ala	Ile	Leu	Ala	Asp	325	330	335	
Arg	Pro	Gln	Ile	Phe	Asp	Glu	Asn	Ile	Met	Phe	Gln	Asp	Pro	Ser	Ala	340	345	350	
Pro	Gly	Leu	Lys	Glu	Glu	Phe	Arg	Asn	Arg	Phe	Arg	Asn	Val	Ser	Arg	355	360	365	
Leu	Met	Asp	Cys	Val	Gly	Cys	Asp	Lys	Cys	Arg	Leu	Trp	Gly	Lys	Leu	370	375	380	
Gln	Val	Asn	Gly	Tyr	Gly	Thr	Ala	Leu	Lys	Val	Leu	Phe	Asp	Tyr	Asp	385	390	395	400
Glu	Thr	Lys	Asn	Gly	Glu	Asn	Pro	Pro	Leu	Arg	Arg	Thr	Glu	Leu	Val	405	410	415	

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Ala Leu Ile Asn Thr Leu Gly Arg Ile Ser His Ser Leu Ala Ala Val
 420 425 430
 Arg Ser Phe His Arg Ala Met Asp Leu Gly Gln Gly Gln Thr Phe Ala
 435 440 445
 Ile Met Ala Gly Thr Pro Met Leu Lys Gln His Pro Gly Gly Arg Lys
 450 455 460
 Ala Lys Val Leu Tyr Lys Asp Gly Gly Ser Thr Phe Tyr Tyr Glu Asp
 465 470 475 480
 Asp Glu Asp Asp Phe Lys Tyr Ala Thr Glu Arg Leu Pro Trp Glu Arg
 485 490 495
 Arg Pro Tyr Lys Glu Ser Asp Thr Ala Trp Asp Ser Phe Thr Ala Glu
 500 505 510
 Phe Glu Val Val Trp Asn Thr Phe Val Tyr Val Leu Lys Ser Trp Trp
 515 520 525
 Asn Leu Pro Lys Thr Leu
 530

<210> 30322

<211> 374

<212> PRT

<213> A.fumigatus

<400> 30322

Leu Ala Leu Ser Leu Gln Pro Arg Gly Glu Asp Thr Leu Pro Met Asp
 1 5 10 15
 Leu Asp Ala Glu Gly Arg Arg Leu Phe Asp Phe Tyr Val Asn Glu Met
 20 25 30
 Pro Ala Cys Ser Tyr Gly Asn His Phe Arg Ser Pro Lys Ala His Asn
 35 40 45
 Trp Tyr Thr Ala Val Phe Val Pro Glu Gly Met Lys Gly Pro Val Ala
 50 55 60
 Phe Gln Asn Thr Ile Leu Val His Ala Ala Asn Thr Trp Ala Trp Val
 65 70 75 80
 Arg Asn Gln Glu Glu Thr Lys Met Thr Leu Val His Arg Asn Arg Ala
 85 90 95
 Ile Ser Met Leu Arg Glu His Leu Ala Ala Asn Pro Gly Asp Ile Ser
 100 105 110
 Asp Val Ala Ile Ile Ala Cys Leu Ser Ala Ala Gly Leu Glu Asp Phe
 115 120 125
 Asp Pro Arg Pro Gly Arg Lys Gln Ile Ser Trp Ile His Met Arg Ala
 130 135 140
 Ala Arg Glu Met Ile Arg Ala Arg Gly Gly Pro Ala Ala Phe Glu Asn
 145 150 155 160
 Thr Arg Leu Gly Met Leu Ile Asn Trp Gln Asp Tyr Ile Leu Ser Gly
 165 170 175
 Tyr Glu Thr His Gly Pro Ser Phe Phe Glu Pro Asn Pro Pro Ile
 180 185 190
 Gln Ser Asp Leu Thr Glu Ala Ser Leu Pro Thr Ser Ser Cys Leu Ser
 195 200 205
 Thr Asp Phe Glu Gly Val Pro Ser Thr Ala Arg Pro Phe Ser Pro Arg
 210 215 220
 Asp Glu Leu Gln His Gln Cys Asn Glu Phe Ile Asp Phe Leu Lys Arg
 225 230 235 240
 Cys Glu Gln Leu Ala Leu His Gln Gln Thr His Thr Asn Pro Ala Ile
 245 250 255
 Ala Pro Met Arg His Thr Ala Phe Gln Pro Thr Ser Leu Leu Tyr Gln

260 265 270
 Ile Leu Ala Ala Pro Pro Gly Val Arg Phe Thr Ala Ser Gly Asn Arg
 275 280 285
 Lys Gln Phe Val Ala Arg Phe Val Ala Leu Ile Met Leu Asn Ala Gly
 290 295 300
 Leu Trp Asp Tyr Arg Ala Ser Val Ala His Ser Glu Ser Phe Leu His
 305 310 315 320
 Thr Leu Glu Gln Ala Val Leu Glu Ser Glu Val Asn Met Ser Gly Ser
 325 330 335
 Val Glu Ala Leu Leu Gln Ile Met Leu Glu Cys Asn Asp Gly Thr Pro
 340 345 350
 Thr Pro Ser Thr Ser Pro Asn Leu Pro Ser Ala Phe Val Leu Asp Glu
 355 360 365
 Arg Glu Pro Ala Ala Pro
 370

<210> 30323

<211> 69

<212> PRT

<213> A.fumigatus

<400> 30323

Glu His Val Ser Gly Ser His Val Gln Asp Gly Gln Arg Cys Gly Ser
 1 5 10 15
 His Leu Leu Lys Gly Val Gln Gln Lys Ile His Glu Gln Ser Asp Lys
 20 25 30
 Thr Arg Val Glu Tyr Phe Asp Val Asp Leu Pro Ser Asn Phe Ile Leu
 35 40 45
 Phe His Ile Gly Thr Pro Asp Gln Val Asn Thr Gly Ile Lys Thr Gly
 50 55 60
 Leu Lys Glu Lys Ile
 65

<210> 30324

<211> 269

<212> PRT

<213> A.fumigatus

<400> 30324

Leu Arg Gly Pro Phe Gln Pro Arg Gly Glu Asp Ile Thr Arg Phe Glu
 1 5 10 15
 Asp Ala Lys Pro Lys Ser Met Lys Gln Val Leu Thr Ser Leu Val Lys
 20 25 30
 Leu Leu Ala Gln Ser Arg Gln Glu Pro Ser Cys Gln Leu Ile Gln Val
 35 40 45
 Gly Leu Val Asp Ala Ile Leu Pro Ser Ile Ile Leu Gly Glu Pro Arg
 50 55 60
 Ala Pro Leu Lys Ala Phe Leu Val Ser Leu Glu Ile Ile Thr Arg Lys
 65 70 75 80
 Asn Ala Ile Leu Pro His Glu Leu Ile Ser Met Leu Gln Val Trp Leu
 85 90 95
 Ser Lys Asn Ser Glu Lys Trp Ile Pro Ile Leu Gln Glu Asp Cys Lys
 100 105 110
 Ala Leu Ser Met Asp Val Gly Val Leu Leu Leu Ser Asp Glu Asp Ser
 115 120 125
 Cys Asn Thr Lys Arg Val Glu Ser Arg Gly Leu Ala Val Gln Ile Leu

130		135		140
Leu Leu Gly Leu Leu Asn Gln Ala Lys Asn Pro Glu Leu Ala Ser Ser				
145		150		155
Ala Gly Asp Thr Ile Ala Ala Phe Phe Gln Lys Leu Lys Ser Asp Leu				160
	165		170	175
Gly Leu Ala Glu Asp Asn Arg Ala Leu Leu Ser Val Trp Ile Pro Pro				
	180		185	190
Val Arg Tyr Met Val Leu Gln Asn Leu Asp Asn Leu Glu Pro Met Ser				
	195		200	205
Asn Tyr Val Leu Gln Pro Leu Phe His Asn Asp Pro Ser Gly Phe Arg				
	210		215	220
Ser Phe Leu Asp Ser Leu Pro Leu Lys Asn Val Leu Ala Gly Asp Met				240
225		230		235
Ala Asp Ala Ala Leu Pro Glu Leu Thr Val Leu Phe Ala Ser Leu Gln				
	245		250	255
Val Ala Lys Lys Ala Gly Leu Val Asp Glu Asp Cys Glu				
	260		265	

<210> 30325

<211> 319

<212> PRT

<213> A.fumigatus

<400> 30325

Ile Arg Leu Leu Arg Thr Asn Cys Ser Leu Asp Gly Pro Ser Lys Gln				
1	5		10	15
Gly Thr Gly Met Lys Leu Ser Leu Pro Gly Glu Ile Ile Gly Gln Phe				
	20		25	30
Leu Phe His Arg Glu Phe Ser Ile Arg Ile Ala Ala Leu Ser Leu Leu				
	35		40	45
Ile Ala Ala Pro Ala Thr Thr Lys Pro Leu Ser Ser Thr Ala Ile Arg				
	50		55	60
Ala Ile Leu Arg Gly Leu Pro Ser Met His Ala Glu Ser Asp Ser Tyr				
65	70		75	80
Ser Arg Gly Glu Ile Ile Ser Leu Leu Arg Lys Leu Ile Val Arg Leu				
	85		90	95
Lys Gly Gly Ile Leu Glu Asn Gln Asp Gly Pro Val Gln Glu Glu Leu				
	100		105	110
Ser Thr Asn Lys Thr Gln Gln Ala Lys Ser Gly Arg Ser Asp Ser Glu				
	115		120	125
Thr Arg Ala Cys Val Ser Thr Tyr Ile Gly Phe Leu Lys Thr Asp Met				
	130		135	140
Arg Pro Thr Ala Ser Tyr Pro Arg His Ile Met Ala Leu Lys Thr Leu				
145	150		155	160
Asn Leu Phe Leu Gln Ser Gly Leu Asp Pro Arg Val Asn Leu Val Arg				
	165		170	175
Arg Ala Asn Met Glu Glu Asp Lys Val Arg Trp Lys Val Asn Ile Glu				
	180		185	190
Val Phe Asp Pro Ser Leu Ile Arg Leu Leu Val Asp Leu Leu Leu Asp				
	195		200	205
Pro Phe Glu Glu Val Arg Ala Thr Ser Leu Thr Ile Leu Asn Met Ala				
	210		215	220
Pro Arg Asp Met Leu Leu Gly Gly Leu Leu Gln Ser Ala Asp Arg Ser				
225	230		235	240
Ser Ala Met Pro Leu Arg Leu Ile Asp Ala Leu Thr Lys Ala Glu Gln				
	245		250	255

11486

Leu Ala Ser Asn Thr Ser Arg Ala Asp His Ala Asp Thr Val Ala Arg
 260 265 270
 Leu Tyr His Ile Ile Phe Tyr Ala Thr Ala Glu Thr His Ser Gly Gly
 275 280 285
 Gly Ser Gln Trp Trp Glu Thr Lys Lys Gly Val Val Asp Leu Leu Leu
 290 295 300
 Thr Lys Leu Glu Gly Lys Ser Ser Pro Arg Gly Gly Arg Thr Ala
 305 310 315

<210> 30326
 <211> 82
 <212> PRT
 <213> A.fumigatus

<400> 30326
 Val Arg His Gln Ala Arg Tyr Gly Leu Gln Ser Ala Ser Gly Ser Gly
 1 5 10 15
 Ser Ala Gly Pro Asn Ala Met Leu Phe Leu Ala Gly Asn Thr Gln Pro
 20 25 30
 Trp Leu Asp Trp Leu Gln Gln Leu Ile Ser Gly His Pro Thr Pro Ile
 35 40 45
 Asp Leu Lys Gln Ile Thr Thr Cys Gln Lys Lys Tyr Pro Asp Glu Ala
 50 55 60
 Arg Ala Val Lys Val Gly Val Asn Arg Ala Val Asn Pro Trp Thr Arg
 65 70 75 80
 Pro Ala

<210> 30327
 <211> 113
 <212> PRT
 <213> A.fumigatus

<400> 30327
 Lys Ile Ser Cys Phe Ser Ser Asn Pro Ile Pro Ser Val Pro Thr Phe
 1 5 10 15
 Ala Leu Phe Pro His Phe Gln Gly Glu Leu Tyr Phe Gly Leu Val Met
 20 25 30
 Val Ile Arg Val Tyr His Pro Pro Leu Glu Ser Leu Ser Leu Ser Leu
 35 40 45
 Leu Pro Leu Val Leu Phe His Pro Pro Ala Phe Phe Val Ser Gln Val
 50 55 60
 Pro Ser Ala Leu Asn Ile Pro Tyr Ser Asn Leu Ser Leu Leu Val Leu
 65 70 75 80
 Leu Leu Ile Leu Tyr Ser Leu Thr Ser Pro Val Val Lys Ser Phe Leu
 85 90 95
 Leu Val Ser Ser Arg Leu Tyr Phe Leu Leu Leu Leu Ser His Pro Asp
 100 105 110
 Phe

<210> 30328
 <211> 191
 <212> PRT
 <213> A.fumigatus

<400> 30328

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Ser Asp Pro Phe Leu Ile Ala Ser His Gln Ala His Pro Pro Thr Met
1          5          10          15
Ser Asp Pro Asn Thr Thr Ala Val Arg Pro Val Pro Arg Val Gly Phe
          20          25          30
Ala Thr Ile Ile Leu Gly Leu Ile Val Leu Gly Ile Leu Arg Trp Ala
          35          40          45
Tyr Ala Cys Tyr Lys Gly Asn Gln Lys Tyr Lys Leu Pro Ala Arg Val
          50          55          60
Pro Gly Ile Pro Ile Leu Gly Asn Ser Leu Gln Val Pro Ala Val Gln
          65          70          75          80
Gln Gly Pro Trp Ala Lys Asp Leu Ala Ala Lys Tyr Gly Glu Met Tyr
          85          90          95
Val Gly Val Pro Phe Pro Ser Leu Pro Ser Arg Glu Asp Val Glu Leu
          100          105          110
Lys His Lys Arg Asn Arg Phe Thr Cys Gln Phe Gly Gly Ser Thr Trp
          115          120          125
Val Phe Leu Asn Ser Ser Arg Val Val Lys Asp Leu Leu Glu Lys Arg
          130          135          140
Ala Ala Ile Tyr Asn Ser Arg Pro Pro Phe Pro Met Thr Gln Asp Asn
          145          150          155          160
Ile Ser Arg Gly Gly Arg Ile Val Leu Met Pro Tyr Gly Glu Arg Trp
          165          170          175
Arg Leu Val Arg Arg Val Met His Gln Ile Leu Ser Val Thr Asn
          180          185          190

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<210> 30329

<211> 283

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (280)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30329

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Gly Leu Gln Ala Arg Gly Arg Gln Thr Gly Thr Thr Asn Pro Arg Arg
1          5          10          15
Tyr Ala Ala Lys Met Leu Arg Gly Glu Phe Leu Ala Ser Lys Glu Ile
          20          25          30
Thr Gln Met Asp Glu Val Thr Lys Leu Phe Val Phe Gly Ser Leu Met
          35          40          45
Glu Ala Gly Ser Asp Thr Ser Arg Val Thr Leu Gly Gln Ile Ile Ala
          50          55          60
Gly Ala Ile Thr Tyr Pro Asp Trp Val Thr Arg Ala Arg Glu Gln Leu
          65          70          75          80
Asp Arg Val Cys Gly Ala His Ala Glu Arg Leu Pro Gly Trp Asp Asp
          85          90          95
Arg Pro Arg Leu Pro Tyr Ile Thr Ala Val Val Lys Glu Gly Phe Arg
          100          105          110
Trp Arg Pro Asn Ile Ala Glu Ile Gly Ala Pro Thr Val Leu Ile Lys
          115          120          125
Asp Asp Glu Tyr Gln Gly Ser Arg Phe Pro Lys Gly Thr Val Phe Thr
          130          135          140
Trp Asn Ala Trp Ala Ile Ala Leu Ser Pro Asp Glu Tyr Glu Gln Pro

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11488

145		150		155		160
Gln Arg Phe Trp	Pro Asp Arg Phe Leu	Asn Glu Asp Leu Glu Asn Ala				
	165	170	175			
Leu Lys Gly His	Gly Ala Phe Gly Pro Gly Met Val Leu Pro Asn His					
	180	185	190			
Cys Arg Lys Gln Leu His Phe Pro Val Asn Gln Met Thr Gly Arg Arg						
	195	200	205			
Val Cys Ala Gly Trp Lys Val Arg Lys Thr Asn Val Trp Ile Ala Ile						
	210	215	220			
Ala Arg Leu Leu Tyr Cys Phe Asp Phe His Pro Val Pro Gly Gln Pro						
225	230	235	240			
Ile Asp Thr Met Arg Ile Pro Gln Leu Ala Gly Asn Ala Thr Ser Phe						
	245	250	255			
Ala Ala Arg Val Ser Val Pro Ser Pro Ala His Ala Glu Leu Ile Arg						
	260	265	270			
Arg Lys Cys Ala Gln Ala Val Xaa Thr His Tyr						
	275	280				

<210> 30330

<211> 541

<212> PRT

<213> A.fumigatus

<400> 30330

Asn Arg Phe Ser Pro Ile Thr Val Ala Ser Gly Leu Thr Leu Gly Leu			
1 5 10 15			
Arg Ser Ile Gly Asn Gly Pro Ser Ala Met Ile Leu Ser Phe Ile Leu			
20 25 30			
His Gly His Leu Pro Tyr Tyr Ser Ile Asn Arg Pro His Pro Asp Pro			
35 40 45			
Leu Leu His Ala Lys Leu Lys Asp Asn Pro Asp Leu Leu Asp Ala Asp			
50 55 60			
Val Ala Ala Leu Thr Glu His Phe Gln Ala Ser Arg Leu Ser Tyr Ser			
65 70 75 80			
Thr Gln Ala Leu Pro Val Asn Val Leu Leu Asp Thr Leu Val Arg Pro			
85 90 95			
Ser Ile Asp Val Asp Val Gly Asp Gly Glu Thr Arg Val Glu Trp Arg			
100 105 110			
Tyr Val Pro Glu Lys Ala Val Pro His Leu Val Phe Gly Asn Ala Pro			
115 120 125			
Lys Ala Gly Gly Gln Trp Asn Asp Asn Leu Val Phe Ala Ser Trp Asp			
130 135 140			
Ile Gln Thr Leu Ser Tyr Ala Ser Met Leu Ser Leu Pro Gly Tyr Ser			
145 150 155 160			
Phe Ala Glu His Tyr Arg Lys Val Asn Gly Lys Asp Leu Pro Ala Phe			
165 170 175			
Thr Arg Pro Thr Arg Arg Glu Ile Met Asp Tyr Phe Ser Ala Tyr Pro			
180 185 190			
Glu Ala Val Gly Ile Asp Asp Ser Phe His Asn Asn Gln Ser Leu Ser			
195 200 205			
Gly Val Thr Arg Thr Ala Asn Gly Phe Phe Ile Ser Ser His Asn Ile			
210 215 220			
His Cys Lys His Leu Val Leu Ala Ser Gly Ile Phe Ser Glu Val Leu			
225 230 235 240			
Gln Pro Leu Pro Met Leu Gln Pro Leu Arg Phe Leu Gln Pro Thr Pro			
	245	250	255

Glu Ile Pro Leu Leu Val Ile Gly Ser Gly Phe Ser Ala Ala Asp Ile
 260 265 270
 Ile Ile Ser Ala Pro Thr His Gln Lys Ile Leu His Ile Phe Lys Trp
 275 280 285
 Asp Pro Glu Gly His Pro Ser Pro Leu Arg Ser Cys His Gln His Ala
 290 295 300
 Tyr Pro Glu Tyr Ala Gly Val Tyr Arg Leu Met Lys Arg Ala Ala Leu
 305 310 315 320
 Ala Ala Glu Pro Ala Ala Ala Lys Arg Leu Gly Lys Pro Arg Arg Thr
 325 330 335
 Thr Ser Ser Pro Phe Leu Glu Ser Arg Ala Trp Asp Thr Val Tyr Glu
 340 345 350
 Gly Leu Pro Asn Ala Glu Val Ile Ala Val Asn Met Gln Ser Glu Ala
 355 360 365
 Ala Val Val Thr Phe Arg Leu Pro Asp Gly Ser Thr Val Glu Arg Thr
 370 375 380
 Val Arg Gly Leu Val Tyr Ala Thr Gly Arg Arg Gly Ser Leu Gly Tyr
 385 390 395 400
 Leu Asp Arg Pro Leu Leu Ser Asp Val Leu Gly Cys Pro Asp Gly Ala
 405 410 415
 Glu Pro Ser Pro Ile Ile Ser Gly Glu Thr Leu Arg Ala Lys Ala Leu
 420 425 430
 Glu Asp Leu Glu Val Ala Asp Asp Val Phe Ile Ile Gly Ser Leu Thr
 435 440 445
 Gly Asp Ser Leu Ile Arg Phe Ala Tyr Gly Ser Cys Val Gln Thr Ala
 450 455 460
 Gly Arg Leu Ile Arg Ala His Thr Gly Asp Asp Lys Ser Glu Cys Lys
 465 470 475 480
 Thr Pro Thr Ser Ser Arg Pro Gln Ser Ser Leu Arg Val Met Asn
 485 490 495
 Gly Met Glu Gly His Glu Ile Tyr His Asn Gly Asp Tyr Tyr Gln Glu
 500 505 510
 Leu Glu Lys Ile Asp Ser Glu Ala Thr Thr Arg Pro Pro Ser Ser Leu
 515 520 525
 Glu Ser Leu Trp Ser Arg Met Met Arg Phe Trp Arg Ser
 530 535 540

<210> 30331

<211> 260

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (251), (256)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30331

Leu Thr Ser Val Gln Phe Ile Ala Val Phe Leu Gly Tyr Val Ala Val
 1 5 10 15
 Ser Gly Val Ala Ile His Arg Tyr Ala Lys Tyr Lys Gly Leu Asn Gly
 20 25 30
 Asp Gly Ile Tyr Asp Ser Ser Asn Ser Phe Ser Leu Asp Thr Asn Thr
 35 40 45
 Leu Ile Leu Phe Ile Phe Val Leu Cys Val Ala Leu Ala Phe Ser Tyr
 50 55 60

Ala Tyr Phe Leu Gly Ala Arg Tyr Phe Ser Lys Leu Phe Ile Trp Val
65 70 75 80
Thr Gly Ile Leu Asn Ile Val Phe Ala Leu Ala Thr Gly Ile Tyr Tyr
85 90 95
Ile Ala Arg Lys Gln Tyr Gly Gly Gly Ile Val Phe Leu Leu Phe Gly
100 105 110
Val Phe Ala Ile Ile Cys Phe Ile Ser Trp Ile Pro Arg Ile Pro Phe
115 120 125
Ser Ala Phe Met Leu Gln Thr Ser Ile Asp Val Ser Arg Lys Tyr Gly
130 135 140
His Met Phe Ile Val Ser Thr Ile Gly Gly Leu Val Ala Val Ala Phe
145 150 155 160
Ala Ala Trp Phe Ser Val Thr Leu Val Ser Ile Tyr Val Ala Tyr Glu
165 170 175
Pro Ser Ser Ser Gly Ser Asn Pro Ser Cys Ser Asp Gly Gly Cys Ser
180 185 190
Arg Ala Arg Val Ile Gly Leu Val Tyr Val Thr Phe Ala Met Tyr
195 200 205
Trp Phe Ser Glu Trp Leu Lys Asn Thr Ile His Thr Thr Ile Ala Gly
210 215 220
Val Tyr Gly Ser Trp Tyr Phe Trp Ser Gln Ser Pro Ile Gly Met Pro
225 230 235 240
Arg Gly Ser Thr Arg Val His Ser Arg Ala Xaa Phe Thr Gln Ala Xaa
245 250 255
Asp Thr Tyr His
260

<210> 30332

<211> 125

<212> PRT

<213> A.fumigatus

<400> 30332

Ile Asp Leu Leu Ser Phe Leu Tyr Phe His Arg Ser Pro Leu Leu Pro
1 5 10 15
Ser Val Thr Thr Trp Leu Phe Val Pro Leu Gln Arg Tyr Thr Ile Met
20 25 30
Ser Gly Gln Leu Arg Ser Tyr Tyr Asn Pro Ser Gln Ser Tyr Gly Asp
35 40 45
Phe Gln Pro Gly Met Gln Asn Pro Gln Gln Gln Pro Asp Tyr Tyr Asn
50 55 60
Asn Asn Val Ser Asn His Gly Tyr Asp Pro Asn Phe Gln Arg Gly Pro
65 70 75 80
Glu Pro Lys Pro Pro Thr Glu Pro Pro Pro Thr Tyr Asn Gln Ala Val
85 90 95
Tyr Gly Phe Asp Asp Ala Phe Lys Ile Glu Arg Pro Lys Tyr His Asp
100 105 110
Ile Trp Ala Gly Leu Leu Val Ser Gly Cys Thr Leu Ser
115 120 125

<210> 30333

<211> 77

<212> PRT

<213> A.fumigatus

<400> 30333

11491

Leu	His	Gln	Ala	Leu	Glu	Val	Ser	Phe	Thr	Val	Val	Gly	Ala	Ala	Met
1				5					10					15	
Leu	Arg	Met	Tyr	Leu	Asp	Asp	Glu	Ile	Gly	Met	Lys	Ala	Leu	Tyr	Pro
			20				25						30		
Arg	Pro	Glu	Thr	Ser	Gln	Thr	Asn	Leu	Leu	Pro	Ala	Ile	Leu	Lys	Pro
		35					40					45			
Cys	Asn	Thr	Cys	Asp	Met	Leu	Thr	Ala	Val	Leu	Glu	Arg	Gly	Thr	Asp
	50					55					60				
Ser	Leu	Val	Arg	Tyr	Val	Phe	Asp	Ala	Gly	Phe	Leu	Tyr			
65					70					75					

<210> 30334

<211> 572

<212> PRT

<213> A.fumigatus

<400> 30334

Ala	Ala	Ala	Asn	Pro	Arg	Ser	Asp	Trp	Gly	Leu	Asp	Ser	Arg	Arg	Val
1			5						10					15	
Asp	Ser	Val	Asp	Phe	Leu	Phe	Glu	Leu	Val	Pro	Phe	Gln	Ile	Phe	Phe
			20					25					30		
Pro	Ser	Ile	Arg	Ile	Ile	Arg	Phe	Val	Ser	His	Ile	Leu	Tyr	Glu	Lys
		35					40					45			
Gly	Trp	Glu	Ala	Gln	Ser	Thr	Leu	Ala	Val	Ala	Lys	Thr	Asp	Pro	Phe
	50					55					60				
Ser	Pro	Ile	Tyr	Leu	Gly	Trp	Arg	Pro	Val	Gln	Ser	Ala	Pro	Gly	Ser
65					70				75					80	
Asp	Val	Cys	Glu	Pro	Gln	Ala	Ala	Leu	His	Tyr	Pro	Pro	Ser	Val	Ser
				85					90					95	
Gly	Ser	Ala	Pro	Glu	Cys	Thr	Cys	Pro	Phe	Arg	Gln	Gln	Pro	Glu	Gln
		100						105					110		
Ile	Gly	Glu	Gly	Thr	Pro	Asn	Asp	Thr	Leu	Leu	Asp	Trp	Leu	Gln	Glu
		115					120					125			
Ala	Val	Gly	Ala	Phe	Gln	Thr	Ser	Ser	His	Ala	Ser	Thr	Cys	Ser	Glu
	130					135					140				
Ser	Gly	Asp	Leu	Pro	Ser	Ser	Ile	Val	Glu	Glu	Lys	Pro	Leu	Gln	Pro
145					150					155				160	
Thr	Thr	Asn	Arg	Phe	His	Ile	Met	Met	Ser	Asn	Gln	Pro	Thr	Phe	Ser
				165					170					175	
Gly	Lys	Pro	Gly	Glu	Asp	Val	Asp	Leu	Tyr	Ile	Asp	Gln	Cys	Arg	Phe
		180					185					190			
Met	Trp	Ala	Gly	Val	Ser	Leu	Asp	Pro	Glu	Glu	Lys	Lys	Gln	Ala	Ile
	195					200						205			
Ala	Thr	Thr	Leu	Phe	Val	Gly	Leu	Arg	Glu	Ala	Ala	Leu	Arg	Phe	Gly
	210					215					220				
Arg	Thr	Leu	Pro	Lys	Thr	Glu	Arg	Lys	Asp	Trp	Glu	Lys	Leu	Ala	Gln
225					230					235				240	
His	Leu	Arg	Ala	Arg	Phe	Pro	Glu	Gln	Glu	Pro	Ser	Asp	Arg	Ile	Gln
			245						250				255		
Asp	Ala	Ile	Met	Arg	Leu	Ser	Glu	Leu	Arg	Gln	Gly	Thr	Lys	Ser	Leu
		260					265					270			
Arg	Gly	Tyr	Ile	Asp	Glu	Val	Gln	Glu	Leu	Thr	Met	Ser	Ile	Pro	Asp
	275					280						285			
Asp	Trp	Gly	Gln	Ser	Val	Gly	Ser	Met	Phe	Ala	Arg	Gly	Leu	Ser	Asp
	290					295					300				
Pro	Met	Thr	Arg	Lys	Val	Leu	Asn	Ala	Tyr	Ile	Gln	Ala	Gln	Lys	Ala

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305          310          315          320
Met Ser Lys Thr Val Lys Ile Glu Glu Leu Ile Arg Met Ala Arg Ala
          325          330          335
Cys Glu Asp Glu Ala Thr Val Val Glu Glu Val Thr Ala Ser Arg Ser
          340          345          350
Arg Asp Glu Met Phe Ala Asp Ala Leu Asn Asn Gln Ser Gln Leu Ile
          355          360          365
Gly Thr Leu Ala Glu Gln Leu Ser Arg Ile Asn Leu Ser Gln Gly Gln
          370          375          380
Ser Gln Gln Ser Ser Ile Ser Arg Gln Gln Gln Gln Trp Gln Asn Ala
385          390          395          400
Gly Gln Arg Val Cys Phe Lys Cys Gly Gln Thr Gly His Ile Ala Pro
          405          410          415
Ile Cys Thr Asn Pro Pro Leu Pro Ala Glu Glu Gln Gln Arg Ile Arg
          420          425          430
Gln Glu Thr Met Gly Gln Gly Gln Gly Gln Leu Gln Ser Gln Gly Arg
          435          440          445
Tyr Arg Gln Pro Gln Thr Asn Arg Ser Ala Ser Glu Thr Asn Arg Pro
          450          455          460
Ile Gln Pro Gln Gly Gly Ala Phe Gly Leu Glu Ser Arg Arg Arg Val
465          470          475          480
Asp Pro Thr Thr Ser Thr Thr Ser Ala Ala Ile Thr Gly Val Glu Ser
          485          490          495
Asn Asn Ile Ala Arg Val Arg Phe Val Asp Ser Glu Ser Glu Glu Val
          500          505          510
Ala Glu Trp Asn Ala Ile Asp Arg Val Asn Ala Val Leu Leu Ser Ser
          515          520          525
Leu Ser Pro Ile Asp Val His Ile Pro Gln Ser Ser Asn Ala Leu Val
          530          535          540
Glu Leu Gln Arg Val Tyr Ala Ala Gly Asp Glu Asp Ala Gly Gly Lys
545          550          555          560
Arg Ala Lys Val Asp Thr Thr Ser Asp Ser Gln Leu
          565          570

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<210> 30335
 <211> 83
 <212> PRT
 <213> A.fumigatus

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<400> 30335
Arg Ile Ala Arg Leu Arg Asp Val Asp Ile Tyr Trp Gly Gln Gly Ala
1          5          10          15
Glu Lys His Cys Val Asn Ser Ile Asp Gly Ile Pro Phe Ser His Phe
          20          25          30
Phe Thr Phe Ala Val His Lys Pro Asp Thr Cys Asn Val Ile Arg Phe
          35          40          45
Tyr Ser Arg Asn Ser Cys Arg Ser Cys Ala Gly Gly Trp Val His Ser
          50          55          60
Thr Pro Gly Leu Gln Ser Lys Cys Ser Pro Leu Arg Leu Asn Trp Ser
65          70          75          80
Ile Arg Leu

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<210> 30336
 <211> 162
 <212> PRT

<213> A.fumigatus

<400> 30336

Cys	Thr	Gln	Cys	Phe	Leu	Ser	Arg	Val	Gln	Arg	Tyr	Ser	Trp	Arg	Glu
1				5					10					15	
Asp	Cys	Ile	Arg	Val	Ser	Leu	Arg	Thr	Thr	Leu	Arg	Ser	Ile	Gln	Phe
			20					25					30		
Thr	Asp	Val	Cys	Met	His	Val	Ser	Ser	Ile	Glu	Leu	Ile	Ser	Leu	Phe
		35					40					45			
Ser	Phe	Leu	Ser	Cys	Leu	Pro	Thr	Ser	Ser	Ile	His	Ile	Val	Ser	Leu
	50					55					60				
Lys	Met	Glu	Ser	Glu	Cys	Gln	Cys	Glu	Gly	Gly	Asn	Lys	Asp	Phe	Pro
65					70					75					80
Ala	Gly	Ser	Val	Met	Arg	Lys	Phe	Glu	Asn	Ala	Ile	Phe	Pro	Ile	Ala
				85					90					95	
Gly	Ser	Leu	Tyr	Arg	Met	Lys	Lys	Ile	Leu	Trp	Glu	Arg	Tyr	Asn	Thr
		100						105						110	
Asp	Tyr	His	Gln	Arg	Arg	Ala	Val	Phe	Glu	Ala	Glu	Glu	Cys	Lys	Thr
		115					120					125			
Lys	Asp	Pro	Val	Val	Val	Lys	Phe	Phe	Leu	Glu	Cys	Val	Ile	Cys	Ser
	130					135					140				
Leu	Pro	Tyr	Ala	Ser	Leu	Leu	Ala	Asn	Phe	Val	Asp	Ile	Gly	Gln	Thr
145					150					155					160
His	Ser														

<210> 30337

<211> 74

<212> PRT

<213> A.fumigatus

<400> 30337

Pro	Lys	Leu	His	Pro	Val	Cys	Leu	Ser	Ser	Asn	Thr	Tyr	Ser	Ser	Gln
1				5						10					15
Ser	Lys	Tyr	Asn	Ile	His	Thr	Pro	Leu	Thr	Leu	Pro	Ser	Asp	Ser	Ala
			20					25					30		
Ile	Pro	Ser	Ser	Asn	Thr	Ser	Ser	Leu	Ala	Cys	Cys	Ser	Gly	Asn	Phe
		35				40						45			
Thr	Ala	Ser	His	Ser	Cys	Arg	Cys	Ser	Ser	Val	Lys	Tyr	Pro	Leu	Thr
	50					55					60				
Thr	Ser	Ser	Arg	Ser	Asn	Gly	Pro	Pro	Ile						
65					70										

<210> 30338

<211> 91

<212> PRT

<213> A.fumigatus

<400> 30338

Leu	Arg	Arg	His	Arg	Ala	Asp	Pro	Phe	Met	Arg	Glu	Glu	Glu	Arg	Gly
1				5					10					15	
Lys	Arg	Thr	Met	Lys	Asp	Asp	Ala	Ala	Asn	Leu	Phe	His	Asn	Glu	Cys
			20				25						30		
Glu	Ile	Trp	Arg	Thr	Leu	Ser	Asp	Thr	Gly	Tyr	Thr	Pro	Lys	Tyr	Tyr
	35					40						45			
Gly	Lys	Arg	Glu	Met	His	Gln	Asp	Leu	Ala	Phe	Glu	Asn	Pro	Gly	Ala

11494

50 55 60
Tyr Leu Trp Ile Leu Ala Phe Gly Thr Leu Ser Gly Pro Leu Ile Leu
65 70 75 80
Ala Asp Thr Pro Ser Ile Trp Trp Lys Gly Gly
85 90

<210> 30339
<211> 66
<212> PRT
<213> A.fumigatus

<400> 30339
Lys Ala Glu Asp Ala Ala Gly Asp Glu Thr Ala Val Ser Thr Thr Glu
1 5 10 15
Val Ser Ala Lys Asn Gly Val Asp Ser Ser Ala Leu Ser Asp Ala Val
20 25 30
Gly Gly Glu Ser Ser Ala Pro Thr Asn Thr Ala Asn Pro Asp Gln Ser
35 40 45
Asn Asn Asn Asp Ser Ile Val Pro Leu Thr Asn Gly Val Ala Gly Asp
50 55 60
Ala Ser
65

<210> 30340
<211> 390
<212> PRT
<213> A.fumigatus

<400> 30340
Cys Leu Phe Phe Ile Ala Ile His Thr Ile Lys Glu Ile Tyr Arg Ser
1 5 10 15
Ser Ser Ile Ala His Ala Asp Val Asn Pro Pro Ala Gln Ser Tyr Phe
20 25 30
Val Arg Trp Val Asn Val Lys Pro Asp His Thr Ile Ser Trp Ser Ile
35 40 45
Gln Pro His Lys Lys Ser Leu Asn Phe Gly Ile Phe Lys His Pro Gly
50 55 60
His Ser Gly Val Leu Ser Ser Thr Asn His Pro Ala Gly Asp Tyr His
65 70 75 80
Ser Thr Asp Ser Ser Glu Asn Leu Pro Ser Ala Ala Ala Ala Gly
85 90 95
Ser Arg Thr Ser Val Ile Glu Lys Leu Thr Ser Ile Gly Leu Lys Gln
100 105 110
Val Arg Trp Ile Gly Lys Cys Glu Ala Asp Lys Ile Val Lys Gly Thr
115 120 125
Tyr Asp Val Pro His Asn Glu Gly Gly Asn Tyr Ala Leu Val Phe Asp
130 135 140
Asn Thr Phe Ser Lys Gln Ile Ser Lys Thr Val Thr Leu Val Leu Leu
145 150 155 160
Thr Tyr Pro Thr His Ser Gly Pro Thr Asn His Ser Thr Thr Gln Leu
165 170 175
Ala Arg Glu Val Glu Phe Ala Glu Asn Ala Asn Ala Thr Ala Arg Asn
180 185 190
Arg Gly Asn Ser Ile Leu Ser Lys Ala Pro Ser Gln Ala Val Ser Thr
195 200 205
Thr Ser Gly Thr Thr His Thr Gly Leu Leu His Lys Arg Arg Arg Lys

210		215		220
Arg His Gln Gly Trp	Ala Arg Arg Tyr Phe Ser	Leu Asp Phe Thr Ser		
225	230	235	240	
Ser Thr Leu Ser Tyr	Tyr His Asp Arg Asn Ser	Ser Ala Leu Arg Gly		
	245	250	255	
Ser Ile Pro Leu Ser	Leu Ala Ala Val Ala Cys Asn Glu Lys Ser Arg			
	260	265	270	
Glu Ile Ser Ile Asp	Ser Gly Thr Glu Val Trp His Leu Arg Ala Ser			
	275	280	285	
Asn Asp Gln Asp Phe	Ile Ala Trp Lys Arg Ala Leu Glu Lys Ala Ser			
	290	295	300	
Ser Lys Ala Ser Ala	Glu Asp Ser His Ala Pro Glu Val Leu Leu Arg			
305	310	315	320	
Val Pro Ser Gln Arg	Phe Leu Thr Asn Ala Glu Glu Arg Glu Trp			
	325	330	335	
Met Gln Val Glu His	Leu Val Ser Lys Val Ser Gly Ser Arg Asp Ala			
	340	345	350	
Val Arg Arg Leu Ala	Arg Asp Thr Asp Pro Lys Tyr Leu Asn Asn Ser			
	355	360	365	
Ser Ala Leu Thr Pro	Tyr Glu Arg Pro Arg Gly Ser Leu Pro Gln Ser			
	370	375	380	
Pro Pro Gly Asn Gln	Leu			
385	390			

<210> 30341
 <211> 70
 <212> PRT
 <213> A.fumigatus

<400> 30341
Ala Ile Tyr Asn Asn Ile Thr Arg Tyr Tyr Ile Thr Lys Gln Tyr Glu
1 5 10 15
Ile Leu Asn Leu Thr Ile Phe Arg Phe Ile Lys Asp Lys Glu Arg Gly
20 25 30
Leu Thr Arg Leu Lys Leu Asp Lys Tyr Thr Tyr Ser Ser Pro Arg Leu
35 40 45
Ile Val Cys Leu Gly Val Phe Arg Ile Leu Thr Ile Leu Thr Asp Phe
50 55 60
Thr Lys Leu Gln Asp Tyr
65 70

<210> 30342
 <211> 198
 <212> PRT
 <213> A.fumigatus

<400> 30342
Glu Lys Ala Phe His Arg Pro Ala Phe Leu Leu Leu Val Ser His His
1 5 10 15
Gln Ser Thr Thr Ala Thr Asn Pro Leu Pro Arg Met Cys Ala Leu Val
20 25 30
Thr Tyr Tyr Pro Arg Glu Pro Leu Asp Glu Thr Cys Glu Lys Glu Thr
35 40 45
Asn Pro Pro Ala Cys Leu Leu Pro Pro Ser Thr Thr Ser Thr Ser Thr
50 55 60
Ser Ser Cys Tyr Ala Ser Leu Ser Leu Leu Pro Ile Gln Ile His Leu

11496

65					70					75				80	
Ala	Gly	His	Gln	Asn	Pro	Ser	Phe	Trp	Asp	Asp	Tyr	Ser	Ala	His	Pro
				85					90					95	
Ser	Arg	Thr	Arg	His	Arg	Cys	His	Leu	Phe	Phe	Tyr	Pro	Glu	Ser	Glu
			100					105					110		
Pro	Gly	Phe	Ala	Glu	His	Pro	Ser	Ser	Thr	Tyr	Asp	Trp	Leu	Ser	Ser
		115					120					125			
Arg	Leu	Ala	Trp	Ser	Arg	Ala	Met	Asp	Cys	Leu	Lys	Arg	Gly	Phe	Gly
	130					135					140				
Trp	Pro	Gly	Gly	Ser	Trp	Lys	Thr	Pro	Asp	Val	Glu	Thr	Ile	Trp	Glu
145					150					155					160
Glu	Tyr	Trp	Arg	Thr	Leu	Leu	Phe	Asn	Ala	Gly	Arg	His	Ser	Asp	Pro
			165					170						175	
Asp	Gly	Tyr	Ala	Arg	Phe	Met	Lys	Met	Met	Ile	Gly	Ser	Gly	Asp	
		180					185					190			
Pro	Ser	Ser	Leu	Phe	Ser										
		195													

<210> 30343

<211> 598

<212> PRT

<213> A.fumigatus

<400> 30343

Tyr	Leu	His	Asp	Gly	Leu	Asp	Ile	His	Met	Leu	Ala	Gly	Cys	Cys	Ser
1				5					10					15	
Ser	Ala	Phe	Gln	Pro	His	Ile	His	Ile	Lys	Met	Ser	Arg	Thr	Val	Glu
		20					25					30			
Leu	Gly	Ser	Gln	Pro	Thr	Ala	Met	Ala	Gly	Cys	Pro	Ser	Glu	Gln	Gln
	35					40						45			
Arg	Leu	Val	Ser	Glu	Thr	Asn	Gln	Ala	Leu	Gln	Leu	Ala	Thr	Gln	Tyr
	50					55				60					
Ser	Lys	Val	Gln	Arg	Arg	Pro	Gly	Gly	Asn	Trp	Arg	Gly	Gln	Thr	Gly
65				70					75					80	
Ile	Asn	Ser	Ile	Ala	Thr	Thr	Ala	Glu	His	Ile	Phe	Met	His	Gln	Ala
			85					90					95		
Leu	Gly	Ser	Asn	Leu	Asp	Thr	Asp	Arg	Asp	Ala	Phe	Ile	Ser	Trp	Phe
		100					105					110			
Tyr	Ser	Val	Gln	Asn	Ser	Asp	Gly	Ser	Trp	Gly	Ile	Ser	Pro	Gly	Asp
	115					120					125				
Arg	Gly	Asp	Leu	Ser	Val	Thr	Val	Glu	Ala	Tyr	Leu	Ala	Leu	Arg	Ile
	130					135					140				
Leu	Gly	Val	Ser	Arg	Asn	Val	His	Gln	Met	Arg	Arg	Ser	Gln	Ser	Phe
145				150					155						160
Ile	Leu	Ala	Glu	Gly	Ser	Ile	Ala	Asn	Val	Cys	Phe	Ile	Thr	Arg	Ile
		165						170					175		
His	Leu	Ala	Met	Phe	Gly	Leu	Tyr	Pro	Trp	Asn	Ala	Val	Arg	Ser	Leu
		180						185					190		
Pro	Pro	Glu	Leu	Val	Leu	Leu	Pro	Gln	Tyr	Ile	Leu	Ser	Ser	Ile	Cys
		195				200						205			
Cys	Trp	Pro	Ala	Val	Asp	Leu	Thr	Val	Leu	Ile	Pro	Leu	Leu	Ile	Leu
	210				215					220					
Cys	His	His	Arg	Pro	Ile	Phe	Pro	Leu	Pro	Ile	Gln	Asp	Cys	Ala	Ala
225				230					235						240
Ser	Ser	Tyr	Leu	His	Glu	Leu	Gln	Cys	Lys	Pro	Gln	Glu	Pro	Gln	Glu
			245					250						255	

Asn Ala Phe Cys Ala Phe Pro Pro Gly Thr Cys Gly Asp Thr Ala Pro
 260 265 270
 Ala Ser Thr Ser Thr Asp Leu Ile Val His Leu Leu Asn Leu Leu Lys
 275 280 285
 Tyr Ile Leu Pro Leu Arg Arg Tyr Ala Leu Asp Arg Ser Val Ala Phe
 290 295 300
 Ile Leu Gln Thr Val Arg Glu Met Gly Gly Val Gly Pro Leu Ser Arg
 305 310 315 320
 Pro Leu His Met Ala Ile Val Ala Leu Glu Leu Glu Gly Tyr Ser Val
 325 330 335
 Ser Ser Arg Ser Leu Arg Thr Thr Leu Asp Asn Ile Gly His Phe Val
 340 345 350
 Tyr Glu Asp Gly Gly Gly Lys Arg Val Leu Ser Val Asn Thr Thr Phe
 355 360 365
 Arg Asp Ser Ser Arg Met Ile Thr Gly Leu Gln Asp Ala Gly Ile Ala
 370 375 380
 Val Asn Ala Pro Trp Phe Arg Thr Ser Val Gln Trp Leu Gln Arg Cys
 385 390 395 400
 Leu Leu Pro Asp Val Asn Ser Asp Thr Ser Lys Thr Phe Glu Thr Arg
 405 410 415
 Val Cys His Val Asp Asp Val Ala Ser Ala Ile His Ala Val Ile Arg
 420 425 430
 Gln Asp Pro Leu Met Leu Arg Ser His Leu Val Ala Asn Ala Leu Gln
 435 440 445
 Trp Leu Leu Lys Arg Gln Asn Ala Asp Gly Gly Trp Thr Ser Leu Ser
 450 455 460
 Ser Ser His Tyr Arg Thr Ser Pro Asp Lys Leu Val Arg Gln Ser Thr
 465 470 475 480
 Pro Asp Val Thr Gly His Val Leu Glu Thr Phe Gly Leu Leu Leu Thr
 485 490 495
 Val Ser Arg Arg Asp Thr Arg Ala Val Ala Gln Gly Ile Leu Val Asp
 500 505 510
 Gln Val Ala Ser Ala Ser Arg Arg Ala Ile His Tyr Leu Ser Ala Thr
 515 520 525
 Gln Gln Pro Cys Gly Ala Trp Phe Gly Cys Cys Thr Arg Tyr His Ile
 530 535 540
 Tyr Ala Thr Ser Ala Val Leu Arg Ala Leu Ala Tyr Phe Ile Gly Val
 545 550 555 560
 Lys Glu Arg Asn Arg Trp Thr Glu Arg Asp Asp Ser Ile Asn Asp Asp
 565 570 575
 Val Ser Gln Ala Ile His Trp Leu Glu Ser Ala Arg Asn Arg Asp Gly
 580 585 590
 Gly Trp Gly Asp Ile Cys
 595

<210> 30344

<211> 111

<212> PRT

<213> A.fumigatus

<400> 30344

Phe Ala Ser Thr Thr Val Gly Ser Phe Gln Pro Arg Gly Glu Asp Asp
 1 5 10 15
 Pro Val Ser Arg Lys Glu Val Ala Gln Ser Glu Cys Arg Phe Gly Pro
 20 25 30
 Ala Tyr Ala Pro Asn Thr Thr Phe His Glu Val Val Gly Glu Phe Val

11498

35	40	45
Asp Ile Lys Tyr Ala Asp Gly Glu Ile Leu Ser Gly Val Ile Gly Thr		
50	55	60
Glu Asn Val Thr Leu Ala Gly Ile Thr Val Asn Gln Thr Ile Gly Val		
65	70	75
Met Asp Tyr Ala Gly Trp Tyr Gly Asp Gly Val Thr Ser Gly Leu Met		
85	90	95
Gly Leu Ala Tyr Ser Ser Leu Trp Val Leu Ser Val Pro Leu Leu		
100	105	110

<210> 30345

<211> 131

<212> PRT

<213> A.fumigatus

<400> 30345

Ser Thr Asp Gly Val Tyr Ser Ala Ser Ala Tyr Thr Thr Asn Asn Arg		
1	5	10
Gln Pro Arg Leu Tyr Asn Pro Ile Phe Ala Thr Met Tyr Glu Gln Gly		
20	25	30
Leu Ile Asp Pro Ile Phe Ser Met Val Met Asn Arg Asn Ala Ser Asn		
35	40	45
Gly Thr Ala Ala Gly Tyr Leu Thr Leu Gly Gly Leu Pro Pro Val Asp		
50	55	60
Ile Asn Gly Asn Phe Ser Thr Thr Pro Ile Leu Ile Thr Asn Ile Lys		
65	70	75
Gly Tyr Pro Lys Asp Tyr Asp Phe Tyr Ala Val Asn Ile Asp Gly Val		
85	90	95
Ala Leu Gly Asn Arg Ser Leu Pro Glu Ala Ala Gly Gly Ile Gln Tyr		
100	105	110
Ile Val Arg Met Tyr Arg Gly Ser Phe Trp Ile Trp Ala Arg Leu Ile		
115	120	125
Ile Thr Asp		
130		

<210> 30346

<211> 67

<212> PRT

<213> A.fumigatus

<400> 30346

Tyr Pro Leu Tyr Gly His Cys Val Cys Ile Phe Thr Met His Arg Ile		
1	5	10
Thr Asn Phe Val Ile Val Glu Ile Thr Pro Ile Gly Ile Gln Asn Ile		
20	25	30
Gly Trp Lys Phe Trp Ile Val Trp Thr Ile Thr Asn Ala Ala Cys Leu		
35	40	45
Pro Ile Ile Tyr Tyr Leu Tyr Pro Glu Thr Gly Glu Trp Ser Ser Lys		
50	55	60
Leu Pro Ile		
65		

<210> 30347

<211> 206

<212> PRT

<213> A.fumigatus

<400> 30347

Gln Cys Thr Gly Ile Asn Ile Met Ser Tyr Tyr Leu Pro Leu Val Leu
 1 5 10 15
 Ile Asn Ser Val Gly Leu Ser Asn Ser Met Ser Arg Leu Leu Ser Ala
 20 25 30
 Cys Asn Ala Thr Ser Tyr Phe Val Phe Ala Cys Val Ala Val Ile Met
 35 40 45
 Val Glu Arg Phe Gly Arg Arg Gly Leu Met Leu Met Ser Thr Phe Gly
 50 55 60
 Gln Phe Ala Cys Phe Leu Ile Ile Thr Ile Leu Leu Arg Phe Ala Glu
 65 70 75 80
 Asn Asp Pro Lys Tyr Gly Thr Ala Ser Val Ala Phe Phe Phe Leu Tyr
 85 90 95
 Tyr Ile Ala Phe Gly Ile Gly Met Met Gly Val Pro Trp Leu Tyr Pro
 100 105 110
 Thr Glu Ile Asn Ser Leu Arg Met Arg Thr Lys Gly Ala Ala Val Ser
 115 120 125
 Ser Ala Thr Asn Trp Tyr Asp Ser Ile Leu Phe Met Val Ile Ala Phe
 130 135 140
 Val Tyr Ser Arg Cys Thr Gly Ser Gln Ile Leu Ser Leu Ser Lys Ser
 145 150 155 160
 His Leu Leu Gly Tyr Arg Thr Leu Val Gly Asn Ser Gly Ser Cys Gly
 165 170 175
 Gln Ser Pro Thr Arg Leu Val Phe Arg Leu Tyr Thr Ile Cys Thr Arg
 180 185 190
 Arg Pro Val Ser Gly Val Arg Ser Tyr Leu Phe Glu Arg Ser
 195 200 205

<210> 30348

<211> 71

<212> PRT

<213> A.fumigatus

<400> 30348

Gln Ser Leu Ala Asn Arg Thr Leu Glu Asp Leu Asp Ala Tyr Tyr Arg
 1 5 10 15
 Ser Asn Pro Pro Leu Ile Val Thr Gly Asp Pro Asp Ala Ile Ser Thr
 20 25 30
 Gly Arg Pro Leu Lys Tyr Ile Gln His Glu Asp Glu Glu Leu Gln Arg
 35 40 45
 Gln Ile Lys Gln Arg Gln Ala Thr Gly Glu Glu Gly Lys Ile Gly Ser
 50 55 60
 Ala Thr Val Gln His Val Gly
 65 70

<210> 30349

<211> 99

<212> PRT

<213> A.fumigatus

<400> 30349

Asn Lys Val Ser Ile Ala Asn Gly Phe Asn Thr Ser Asn Ser Ser Cys
 1 5 10 15
 Leu Ala Lys Leu Arg Leu Pro Pro Ser Ser Gly Glu Glu Ser Trp Ser
 20 25 30

11500

Phe Trp Arg Met Ala Leu Asn Val Ser Gly Phe Ala Leu Val Asn Trp
 35 40 45
 Ile Asn Tyr Gly Leu Ser Ser Lys Gly Gly Ala Leu Ala Trp Arg Leu
 50 55 60
 Pro Ile Ala Leu Gln Phe Phe Phe Ile Phe Ile Leu Tyr Ala Thr Val
 65 70 75 80
 Pro Trp Leu Pro Glu Ser Pro Arg Leu Ala Ala Pro Asp Ala Pro His
 85 90 95
 Ala His Ser

<210> 30350

<211> 79

<212> PRT

<213> A.fumigatus

<400> 30350

His Gln Val Glu Arg Leu Glu Met Ile Lys Ile Ala Arg Asn Gly Gly
 1 5 10 15
 Ser Ile Thr Pro Arg Tyr Gln Lys Ile Phe Lys His His Ala Ala Arg
 20 25 30
 Asn Arg Val Ser Ile His Thr Arg Thr Val Ile Arg Ser Lys Glu Phe
 35 40 45
 Cys Pro Ser Ser Gln Thr Trp Arg Leu Thr Thr Asp Pro Pro Ile Pro
 50 55 60
 Asp Leu Pro Pro Ile Asp Tyr Ile Tyr Cys Ala Thr Gly Met Lys
 65 70 75

<210> 30351

<211> 60

<212> PRT

<213> A.fumigatus

<400> 30351

Ser Phe Trp Thr Val Asn Arg Phe Glu Ser Thr Val Asp Gly Met Ser
 1 5 10 15
 Ser Asp Lys Ala Cys Cys Ser Asp Gly Trp Glu Glu Arg Leu Cys Arg
 20 25 30
 Leu Leu Met Val Asn Ile Ser Leu Ser Tyr Leu Leu Met Lys Gln Ile
 35 40 45
 Thr Tyr Leu Ser Ile Leu Ser Ile Ser Leu Arg Ala
 50 55 60

<210> 30352

<211> 80

<212> PRT

<213> A.fumigatus

<400> 30352

Ala Leu Ala Leu Leu Gln Ser Ile Asp Ile Ser Leu Tyr Val Val Ala
 1 5 10 15
 Ala Val Val Ile Tyr Tyr Phe Ala Gly Asp Gly Val Thr Ser Pro Ala
 20 25 30
 Leu Gly Ser Ala Gly Pro Leu Ile Ser Lys Ala Ala Tyr Gly Ile Ala
 35 40 45
 Leu Pro Thr Val Gly Ile Leu Ile Pro Arg Arg Phe Ser Ser Pro Leu

11501

50		55		60
Ala Arg Asp Gln Lys Leu Thr Leu Glu Asp Arg His Arg Arg Cys Asn				
65		70		75
				80

<210> 30353

<211> 479

<212> PRT

<213> A.fumigatus

<400> 30353

Ser Leu Leu Leu Ala Arg Leu Cys Pro Thr Arg Thr Ala Arg Phe Leu				
1	5	10	15	
Arg Thr Ser Thr Pro Lys Val Gly Pro Ala His Glu Met Gln Gly Ala				
20	25	30		
Ser Arg Gln Gln Glu Asn Gln Leu Leu His Arg Thr Val Pro Met Leu				
35	40	45		
Pro Asn Ala Thr Met Pro Ile Ile Pro Thr Lys Asn Gly Pro Asp Glu				
50	55	60		
Lys Pro Pro Trp Ser Glu Met Lys Thr Lys Ala Gly Lys Glu Arg Lys				
65	70	75	80	
Arg Leu Pro Leu Ala Cys Ile Ala Cys Arg Arg Lys Lys Ile Arg Cys				
85	90	95		
Ser Gly Glu Lys Pro Ala Cys Lys His Cys Ser Arg Ser Arg Ile Pro				
100	105	110		
Cys Val Tyr Lys Val Thr Thr Arg Lys Ala Ala Pro Arg Thr Asp Tyr				
115	120	125		
Met Ala Met Leu Asp Lys Arg Leu Lys Arg Met Glu Asp Arg Val Ile				
130	135	140		
Lys Thr Ile Pro Lys Asp Glu Pro Arg Asp Met Ala Ala Ile Gly Arg				
145	150	155	160	
Ser Val Val Arg Pro Pro Gln Pro Gly Gln Ala Ser Lys Thr Gln Lys				
165	170	175		
Lys Arg Ser Ala Asp Glu Ala Phe Ala Ser Glu Met Glu Glu Trp Ala				
180	185	190		
His Glu Asp Arg Arg Ala Pro Gln Asp Ile Phe Pro Met Arg Arg Glu				
195	200	205		
Gly Lys Ser Asn Asp Ala Thr Gly Leu Leu Thr Glu Gly Ala Glu Phe				
210	215	220		
Leu Pro Ser Leu Glu Ile Gln Glu His Leu Ala Glu Val Phe Phe Asp				
225	230	235	240	
Cys Val Tyr Gly Gln Ser Tyr Leu Leu Leu His Lys Pro Ser Phe Met				
245	250	255		
Arg Arg Leu Lys Ala Arg Thr Val Pro Pro Val Leu Ile Leu Ala Val				
260	265	270		
Cys Ala Val Ser Ala Arg Phe Ser Thr His Pro Gln Leu Ser Ser Asp				
275	280	285		
Pro Pro Phe Leu Arg Gly Glu Asn Trp Ala Asn Pro Ala Ala Ala Ile				
290	295	300		
Ala Leu Ser Arg His Asp Glu Pro Ser Ile Thr Ile Leu Thr Val Phe				
305	310	315	320	
Leu Leu Leu Gly Leu His Glu Phe Gly Thr Cys His Gly Gly Arg Ser				
325	330	335		
Trp Ser Phe Gly Gly Gln Ala Leu Arg Met Ala Tyr Ala Leu Gln Leu				
340	345	350		
His Arg Glu Leu Asp Tyr Asp Pro Leu Leu Ser Gln Gly Ser Gly Asn				
355	360	365		

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Gly Ala Gln Leu Ser Phe Thr Asp Arg Glu Ile Arg Arg Arg Thr Met
 370 375 380
 Trp Ala Cys Phe Leu Met Asp Arg Tyr Asn Ser Ser Gly Ser Gln Arg
 385 390 395 400
 Pro Pro Ile Gly Asn Glu Lys Phe Leu Gln Ile Gln Leu Pro Ile Lys
 405 410 415
 Glu Ser Ser Phe Gln Leu Glu Ile Pro Gly Pro Thr Glu Glu Leu Asp
 420 425 430
 Arg Asn Val Pro Asn Pro Val Pro Asp Asp Val Gly Gln Leu Ser Asn
 435 440 445
 Ala Lys Asp Asn Met Gly Val Ser Ala Tyr Ile Ile Arg Ala Val Val
 450 455 460
 Ile Trp Gly Arg Ile Val Asp Tyr Leu Asn Leu Gly Gly Lys Lys
 465 470 475

<210> 30354

<211> 60

<212> PRT

<213> A.fumigatus

<400> 30354

Phe Leu Pro Thr Lys Ile Glu Ile Ile Asp Tyr Ala Thr Pro Tyr Tyr
 1 5 10 15
 His Ser Ser Asn Asp Ile Gly Arg His Ala His Val Ile Leu Gly Ile
 20 25 30
 Arg Gln Leu Thr Asp Ile Ile Arg Asn Gly Val Trp Asn Val Pro Ile
 35 40 45
 Gln Phe Leu Arg Trp Ala Arg Tyr Leu Gln Leu Lys
 50 55 60

<210> 30355

<211> 575

<212> PRT

<213> A.fumigatus

<400> 30355

Glu Arg His Ser Asp Ile Asp Ile Asn Phe Leu Asn Tyr Val Phe Arg
 1 5 10 15
 Asn Met Ala Arg Glu Gly Asp Ser Asn Gly Thr Leu Ala Met Pro Arg
 20 25 30
 Leu Asp Glu Ile Leu Arg His Pro Glu Asp Leu Asp Lys Ile Ala Gly
 35 40 45
 Leu Lys Ala Glu Tyr Ser Arg Lys Lys Gly Thr Val Asp Ser Gln Leu
 50 55 60
 Arg Glu Gly Leu Arg His Gln Leu Glu Thr Val Gln Arg Ser Ile Asn
 65 70 75 80
 Ala Leu Thr Glu Gly Gln Arg Gln Val Thr Lys Thr Arg Asp Glu Leu
 85 90 95
 Gln Thr Ile Asp Lys Leu Cys Ala Glu Ser Gln Thr Ser Val Asp Asp
 100 105 110
 Phe Ser Arg Ile Asp Lys Leu Ala Lys Val Gln Arg Asn Phe Glu Ala
 115 120 125
 Thr Leu Met Met Lys Lys Gly Leu Glu Asn Phe Ser Ile Asp Leu Ala
 130 135 140
 Glu Val Glu Glu Leu Leu Arg Gln Asp Asp Glu Asp Leu Glu Asn Gln
 145 150 155 160

11503

Pro Asn Leu Leu Arg Val His Met Gln Ile Ser Arg Leu Arg Asp Phe
 165 170 175
 Arg Asp Glu Ala Met Asp Gln Ile Arg Lys Ala Gln Asp Pro Ser Ser
 180 185 190
 Glu Ala Ala Leu Thr Asp Tyr Phe Gln Gly Leu Asp Ser Val Ile Asp
 195 200 205
 Trp Phe Asp Glu His Leu Gly Thr Ala Cys Met Asn Leu Ile Pro Leu
 210 215 220
 Val Gln Ser Asp Asn Arg Ser Met Val Val Arg Leu Gly Val Ile Val
 225 230 235 240
 Met Thr Glu Glu Lys Asn Asp Ala Thr Val Arg Ala Leu Gln Glu Ala
 245 250 255
 Gln Lys Asp His Gln Asp Leu Ala Gly Arg Phe Lys Ser Met Asn Ile
 260 265 270
 Gly Pro Lys Thr Val Arg Gly Tyr Lys Glu Lys Leu Leu Gln Ala Ile
 275 280 285
 Glu Leu Tyr Ala Glu Asn Gln Phe Arg Glu Thr Lys Glu Ala Phe Leu
 290 295 300
 Gly Asp Pro Glu Asn Leu Asp Lys Ser Phe Lys Trp Tyr Phe Asn Asp
 305 310 315 320
 Leu Phe Ser Val Gln Gln Gly Met Gln Ala Leu Leu Pro Lys Arg Trp
 325 330 335
 Lys Ile Tyr Lys Thr Tyr Thr Asn Ile Tyr His Arg Met Met His Asp
 340 345 350
 Phe Leu Ile Asp Leu Ile Asn Asp Pro Asp Leu Pro Ala Asp Asn Leu
 355 360 365
 Leu Ala Ile Leu His Trp Ser Glu Lys Tyr Tyr Lys Lys Met Lys Lys
 370 375 380
 Leu Gly Trp Lys Gln Ser Glu Leu Gln Pro Asn Ile Leu Asp Asp Arg
 385 390 395 400
 Glu Pro Glu Leu Ile Arg Gln Trp Gln Asn Ile Ile Ile Lys Ala Val
 405 410 415
 Glu Glu Trp Met Glu Arg Ile Thr Glu Thr Asp Arg Lys Gly Leu Val
 420 425 430
 Glu Arg Ile Pro Asp Ser Leu Asp Thr Asn Ala Glu Gly Tyr Phe Arg
 435 440 445
 Thr Lys Thr Leu Pro Asp Met Trp Arg Met Leu His Glu Gln Ile Val
 450 455 460
 Ala Ser Gly Ala Ser Ser Arg Thr Asp Val Val Glu Gly Ile Ile Asp
 465 470 475 480
 Ala Met Phe Arg Val Leu Lys Ser Arg Gln Thr Asn Trp Gln Met Leu
 485 490 495
 Ile Asp Glu Glu Cys Gly Lys Tyr Lys Ala Gln Gly Gly Asp Gln Leu
 500 505 510
 Glu Gly Leu Gln Leu Leu Gln Asp Trp Leu Ile Ala Val Ala Asn Asp
 515 520 525
 Gln Ile Ala Cys Ile Asp Asp Asn Asp Glu Ser Gly Gln Leu Gly Tyr
 530 535 540
 Leu Ser Lys Phe Lys Arg Asp Phe Glu Pro Ser Val Asp Pro Ser Leu
 545 550 555 560
 His His Gly Ala Arg Arg Ile Arg Ala Lys Asp Pro Arg Met Arg
 565 570 575

<210> 30356

<211> 105

<212> PRT

<213> A.fumigatus

<400> 30356

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Asp Lys Phe Pro Arg Asp His Cys Tyr Thr Ser Tyr Pro Ser Thr Ala
1          5          10          15
Ser Thr Thr Glu Asp Lys Gln Thr Glu Ala Asn Trp Ser Gln Leu Pro
          20          25          30
Asn Thr Gln Lys Pro Thr Thr Glu Gln Lys Thr His Ile Pro Val Asp
          35          40          45
Met Ser Tyr Phe Arg Val Thr Leu Leu Arg Ser Ala Ile Gly Leu Pro
          50          55          60
Arg Arg Thr Thr Asp Val Leu Lys Ala Leu Gly Leu Lys Lys Arg Met
65          70          75          80
Ala Thr Val Phe His Pro Val Ser Pro Ser Val Gly Gly Gln Ile Leu
          85          90          95
His Cys Gln Ala Arg Arg Lys Ser Ala
          100          105

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<210> 30357

<211> 729

<212> PRT

<213> A.fumigatus

<400> 30357

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Phe Ser Ser Glu Gly Leu Pro Leu Ala Val Thr Leu Ala Leu Ala Phe
1          5          10          15
Ala Thr Thr Arg Met Val Lys Glu Asn Asn Leu Val Arg Val Leu Arg
          20          25          30
Ala Cys Glu Thr Met Gly Asn Ala Thr Val Val Cys Ser Asp Lys Thr
          35          40          45
Gly Thr Leu Thr Gln Asn Lys Met Thr Val Val Ala Gly Thr Phe Gly
50          55          60
Ala Gln Glu Ser Phe Gly Gln Asp Arg Lys Glu Asp Ala Glu Pro Pro
65          70          75          80
Ser Asp Ser Thr Thr Val Ala Glu Ile Phe Lys Gln Cys Ser Thr Ala
          85          90          95
Val Arg Asp Leu Ile Ile Lys Ser Ile Ala Leu Asn Ser Thr Ala Phe
          100          105          110
Glu Glu Glu Lys Glu Gly Ser Arg Glu Phe Val Gly Ser Lys Thr Glu
          115          120          125
Val Ala Met Leu Gln Met Ala Arg Asp Tyr Leu Gly Met Asp Val Thr
          130          135          140
Thr Glu Arg Gly Ser Ala Glu Ile Val Gln Leu Ile Pro Phe Asp Ser
145          150          155          160
Ala Arg Lys Cys Met Gly Val Val Tyr Arg Glu Pro Thr Ala Gly Tyr
          165          170          175
Arg Leu Leu Val Lys Gly Ala Ala Glu Ile Met Val Gly Ala Cys Ser
          180          185          190
Ser Lys Val Ser Asp Leu Ser Ala Ser Ser Asp Gly Val Met Val Asp
          195          200          205
Leu Phe Thr Glu Thr Asp Arg Gln Lys Met Leu Asp Thr Ile Glu Ser
210          215          220
Tyr Ala Met Lys Ser Leu Arg Thr Ile Gly Leu Val Tyr Arg Asp Phe
225          230          235          240
Pro Ser Trp Pro Pro Lys Asp Ala His Arg Val Glu Asp Asp Pro Ser
          245          250          255

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Ala Ala Lys Phe Glu Asp Val Phe Arg Asp Met Thr Trp Leu Gly Val
 260 265 270
 Val Gly Ile Gln Asp Pro Leu Arg Pro Glu Val Pro Val Ala Ile Gln
 275 280 285
 Lys Cys Arg Ile Ala Gly Val Gln Val Lys Met Val Thr Gly Asp Asn
 290 295 300
 Leu Ala Thr Ala Thr Ala Ile Ala Gln Ser Cys Gly Ile Lys Thr Glu
 305 310 315 320
 Asp Gly Ile Val Met Glu Gly Pro Lys Phe Arg Gln Leu Ser Asp Gln
 325 330 335
 Glu Met Asp Glu Val Ile Pro Arg Leu Gln Val Phe Ala Arg Ser Ser
 340 345 350
 Pro Glu Asp Lys Arg Ile Leu Val Ala Arg Leu Lys Lys Leu Gly Glu
 355 360 365
 Thr Val Ala Val Thr Gly Asp Gly Thr Asn Asp Gly Pro Ala Leu Lys
 370 375 380
 Thr Ala Asp Val Gly Phe Ser Met Gly Ile Ala Gly Thr Glu Val Ala
 385 390 395 400
 Lys Glu Ala Ser Ser Ile Ile Leu Leu Asp Asp Asn Phe Lys Ser Ile
 405 410 415
 Val Thr Ala Ile Ala Trp Gly Arg Ala Val Asn Asp Ala Val Ser Lys
 420 425 430
 Phe Leu Gln Phe Gln Ile Thr Val Asn Ile Thr Ala Val Ile Leu Thr
 435 440 445
 Phe Val Ser Ser Leu Tyr Arg Ser Asp Asn Thr Ser Val Leu Ser Ala
 450 455 460
 Val Gln Leu Leu Trp Val Asn Leu Ile Met Asp Thr Phe Ala Ala Leu
 465 470 475 480
 Ala Leu Ala Thr Asp Pro Pro Thr Glu Gln Ile Leu His Arg Lys Pro
 485 490 495
 Val Pro Lys Ser Ala Ser Leu Phe Thr Val Thr Met Trp Lys Met Ile
 500 505 510
 Ile Gly Gln Ala Ile Tyr Gln Leu Ala Ile Thr Phe Met Leu Tyr Phe
 515 520 525
 Ala Gly Asp Lys Leu Leu Gly Ser Arg Leu Gly Thr Asp Lys Arg Gln
 530 535 540
 Leu Lys Leu Asp Thr Ile Val Phe Asn Thr Phe Val Trp Met Gln Ile
 545 550 555 560
 Phe Asn Glu Phe Asn Asn Arg Arg Leu Asp Asn Lys Leu Asn Ile Phe
 565 570 575
 Glu Gly Met Phe Arg Asn Tyr Trp Phe Leu Gly Ile Asn Cys Ile Met
 580 585 590
 Val Gly Gly Gln Val Met Ile Ile Tyr Val Gly Gly Ala Ala Phe Asn
 595 600 605
 Val Thr Arg Leu Asp Ala Val Gln Trp Gly Ile Cys Ile Val Cys Ala
 610 615 620
 Ile Ala Cys Leu Pro Trp Ala Val Ile Leu Arg Leu Thr Pro Asp Arg
 625 630 635 640
 Pro Val Glu Ile Ile Ile Asn Phe Val Val Leu Val Val Gly Thr Thr
 645 650 655
 Leu Arg Pro Ile Gly Lys Ala Val Ser Ala Ile Ser Arg Ile Val Ser
 660 665 670
 Ser Met Met Trp Pro Val Lys Arg Val Ser Arg Arg Val Leu Arg Arg
 675 680 685
 Asn Ala Glu Asp Asp Ser Thr Thr Asp Lys Glu Glu Val Pro Met Thr
 690 695 700

11506

Asp Val Glu Lys Gln His Thr Pro Lys Ala Pro Ala Thr Pro Val Val
 705 710 715 720
 Val Pro Pro Ile Thr Ile Thr Ser Ser
 725

<210> 30358
 <211> 241
 <212> PRT
 <213> A.fumigatus

<400> 30358
 Lys Ser Gly Met Glu Ile Arg Val Ser Val Leu Glu Tyr Val Thr Thr
 1 5 10 15
 Arg Ile Gln Ala Leu Arg Ala Gln Gln Lys Leu Arg Ala Ala Thr
 20 25 30
 Ala Thr Ala Thr Ala Ala Ser Glu Thr Pro Ser Gln Gln Gln Ala Gln
 35 40 45
 Ile Asp Gly Lys Gln Ala Asn Ala Asn Ala Ala Asp Ala Ala Ser
 50 55 60
 Pro Ala Pro Ser Thr Asp Thr Glu His Met Pro Thr Thr Leu Val Pro
 65 70 75 80
 Gly Ser Tyr Glu Asn Ile Ser Ala Ile Arg Ser Asn Thr Met Lys Phe
 85 90 95
 Phe Pro Asn Phe Phe Ala Arg His Gln Leu Ser Lys Ile Phe Ile Cys
 100 105 110
 Phe Pro Asp Pro His Phe Lys Ala Arg Lys His Lys Ala Arg Ile Ile
 115 120 125
 Ser Glu Thr Leu Asn Ala Glu Tyr Ala Tyr Ala Leu Arg Pro Gly Gly
 130 135 140
 Leu Leu Tyr Thr Ile Thr Asp Val Glu Glu Tyr His His Trp Ile Leu
 145 150 155 160
 Arg His Phe Gly Val Glu Leu Gly Ala Glu Glu Ser Glu Glu Lys
 165 170 175
 Ser Thr Ser Pro Asn Ala Asn Ala Asn Ala Gly Val Arg Glu Leu Phe
 180 185 190
 Glu Arg Val Ser Glu Glu Glu Leu Glu Lys Asp Glu Cys Val Arg Val
 195 200 205
 Met Lys Glu Ala Thr Glu Glu Gly Lys Lys Val Ala Arg Asn Lys Gly
 210 215 220
 Asn Lys Tyr Val Ala Val Phe Arg Arg Lys Thr Asp Pro Glu Trp Pro
 225 230 235 240
 Ala

<210> 30359
 <211> 107
 <212> PRT
 <213> A.fumigatus

<400> 30359
 Pro Phe Asp Ser Asn Thr Pro Phe Val Glu Lys Asp Gly Phe Ala Trp
 1 5 10 15
 Cys Leu Gln Cys His Ser Arg Arg Thr Ala Pro Arg Cys Leu Gly Cys
 20 25 30
 Lys Lys Pro Val Leu Glu Asp Ile Val Val Ser Ala Val Gly Gly Gln
 35 40 45

11507

Trp His Asn Glu Cys Phe Val Cys His Glu Cys Gly Asn Gly Phe Gly
 50 55 60
 Pro Asp Gly Arg Tyr Phe Val Arg Glu Gly Glu Pro Lys Arg Thr Ser
 65 70 75 80
 Lys Gly Arg Ile Ile Gly Gly Pro Val Gln Leu Ala Val Cys Glu Arg
 85 90 95
 Cys Glu Ser Ile Arg Leu Lys Ala Ser Pro Lys
 100 105

<210> 30360
 <211> 112
 <212> PRT
 <213> A.fumigatus

<400> 30360
 Asp Glu Arg Ala Leu Gly Ser Ser Arg Thr Ser Thr Lys Ala Lys Pro
 1 5 10 15
 Ala Ala Pro Lys Glu Glu Asp Glu Pro Pro Val Glu Thr Thr Ser Lys
 20 25 30
 Gly Ala Ser Leu Leu Ser Lys Met Gly Trp Ser Ala Gly Ser Gly Leu
 35 40 45
 Gly Ala Gln Gly Thr Gly Met Thr Ala Pro Ile Ala Thr Glu Val Tyr
 50 55 60
 Ala Gln Gly Val Gly Leu Gly Ala Gln Gly Ser Lys Leu Gly Asp Ala
 65 70 75 80
 Val Glu Glu Ala Gly Arg Asn Thr Arg Asn Arg Tyr Asp Glu Phe Leu
 85 90 95
 Glu Lys Thr Arg Gln Thr Ala Arg Glu Arg Tyr Glu Arg Leu Gly Lys
 100 105 110

<210> 30361
 <211> 253
 <212> PRT
 <213> A.fumigatus

<400> 30361
 Leu Tyr Arg Phe Leu Asn Thr Thr Val Leu Lys Ser Leu Pro Ser Ser
 1 5 10 15
 Cys Ala Lys Phe Ile Ser Leu Cys Ile Arg Arg His Lys Ile Ile Thr
 20 25 30
 Val Asn Phe Thr Tyr Pro Ser Gln Pro Leu Thr Thr Pro Pro Lys Thr
 35 40 45
 Pro Gln Leu Asn Thr Met Leu Leu Ser Phe Phe Asn Arg Gly Pro Ser
 50 55 60
 Pro Ser Pro Thr Thr Asp Ser Lys Lys Thr Ser Pro Ala Gln Ser Gln
 65 70 75 80
 Gln Gly Ser Ile Pro Gly Ser Thr Glu Pro Gln Thr Gln Pro Gln Pro
 85 90 95
 Gln Ala Gln Gln Thr Gln Ser Gln Pro Gln Arg Pro Leu Thr Asn Leu
 100 105 110
 Lys Leu Leu Phe Gly Gly Val Thr Phe Phe Ala Leu Ser Leu Leu Ile
 115 120 125
 Thr Arg Arg Ala Phe Thr Lys Arg Val Ile Ala Ser Ile Pro Pro Tyr
 130 135 140
 Trp Thr Ser Ser Val Tyr His Arg Pro Pro Val Asn Gly Ala Gly Asp
 145 150 155 160

11508

Ala Phe Glu Ala Leu Ser Leu Ala Thr Leu Asn Val Cys Ser Phe Ala
 165 170 175
 Met Met Ala Thr Gly Gly Val Leu Tyr Ala Leu Asp Ile Asn Ser Val
 180 185 190
 Glu Asp Met Arg Arg Tyr Val Lys Lys Gly Met Gly Thr Gly Thr Val
 195 200 205
 Arg Asp Glu Glu Val Glu Arg Glu Val Glu Glu Trp Val Ala Lys Val
 210 215 220
 Leu Gly Glu Lys Phe Gly Val Glu Leu Lys Lys Glu Lys Glu Lys Glu
 225 230 235 240
 Lys Glu Lys Glu Ala Gly Asn Val Glu Gly Lys Gly Glu
 245 250

<210> 30362
 <211> 127
 <212> PRT
 <213> A.fumigatus

<400> 30362
 Asp Pro Leu Asn Gln Asn Pro Phe Asp Phe Thr Asp Ser Leu Thr Arg
 1 5 10 15
 Leu Ser Ser Ser Leu Phe Leu Leu Leu Ala Pro Ser Leu Ser His Cys
 20 25 30
 Ala Tyr Ala Gly Ile Lys Leu Ser Pro Ser Thr Ser Pro Thr Arg Val
 35 40 45
 Asn His Ser Pro Leu His Gln Lys His Leu Ser Ser Thr Pro Cys Cys
 50 55 60
 Ser Leu Ser Ser Thr Gly Ala Pro Ala Gln Ala Gln Pro Gln Thr Gln
 65 70 75 80
 Arg Arg His Leu Gln His Asn Pro Asn Lys Gly Pro Ser Arg Asp Gln
 85 90 95
 Pro Ser Pro Lys Arg Asn His Asn His Lys His Asn Lys Arg Ser Arg
 100 105 110
 Asn His Lys Gly Pro Ser Gln Thr Ser Asn Ser Ser Ser Ala Ala
 115 120 125

<210> 30363
 <211> 630
 <212> PRT
 <213> A.fumigatus

<400> 30363
 Val Lys Thr Arg Arg Glu Ile Asn Ala Met Arg Thr Asn Tyr Thr Leu
 1 5 10 15
 Ser Cys Arg Cys Ile Glu Thr Ile Leu His Lys Ser Gln Pro Ala Met
 20 25 30
 Asp Lys Ser Glu Leu Asp Pro Glu Lys Gly Phe Leu Cys Tyr Ser Val
 35 40 45
 Leu Tyr Trp Pro Glu His Val Arg Leu Ser Gln Thr Glu Phe Ala Ile
 50 55 60
 Arg Glu Glu Phe Lys Asp Phe Phe Gln Ile Gln Leu Glu Thr Trp Gly
 65 70 75 80
 Arg Trp Leu Asp Tyr Tyr Ser Tyr Leu Lys Gly Ser Ser Tyr Arg Glu
 85 90 95
 Leu Cys Pro Gly Leu Ala Pro Ile His Val Ala Ala His Trp Gly Ile
 100 105 110

Leu Pro Leu Ile Ser Phe Leu Leu Pro Ala Ser Leu Glu Asp Lys Asp
 115 120 125
 Ser Arg Gly Gln Thr Pro Leu Leu Ile Ala Ala Gln Ala Val Gln Ile
 130 135 140
 Glu Ala Met Arg Phe Leu Val Glu Arg Gly Ser Tyr Val Asn Ser Val
 145 150 155 160
 Asn Asn Cys His Glu Asn Ala Leu Gln Ile Thr Cys Gln Asn Ser Gln
 165 170 175
 Tyr Asn Asn Cys Ala Met Thr Lys Phe Leu Leu Asp Arg Gly Thr Ser
 180 185 190
 Pro Tyr Val Cys Asp Lys Glu Asn Met Thr Pro Phe Leu Tyr Ala Ile
 195 200 205
 Gly His Gln Lys Glu Asp Leu Ala Arg Val Phe Leu Gln Asn Gly Phe
 210 215 220
 Tyr Val Asp Phe Arg Ile Arg Arg Arg Cys Trp Thr Gly Arg Met Val
 225 230 235 240
 Asn Asn Ser Ile Ser Tyr Glu Val Asp His Ser Pro Glu Gln His Ser
 245 250 255
 Asn Leu Gly Val Gln Ser Gly Leu Thr Ala Leu His Phe Ser Ala Leu
 260 265 270
 Asn Ala Ser Ala Lys Met Ala Thr Leu Leu Leu Gln Tyr Gly Ala Asp
 275 280 285
 Pro Asn Ala Arg Ser Asp Thr Gly Asp Thr Pro Leu His Leu Ala Ile
 290 295 300
 Arg Pro Lys Leu Leu Glu His Lys Tyr His Asp Pro Trp Ile Ser Gly
 305 310 315 320
 Glu Tyr Ala Ala Glu Ser Leu Arg Asp Leu Ile Thr Asp Tyr Glu Ser
 325 330 335
 Glu Ala Tyr Asp Val Tyr Glu Ser Ile Asp Arg Tyr Arg Val His Ile
 340 345 350
 Ile Glu Val Leu Leu Ser Ser Asp Ser Val Asp Val Asn Leu Ala Asn
 355 360 365
 Asp Gln Gly Asp Tyr Pro Gln His Val Ile Pro Phe Glu Arg Asp Tyr
 370 375 380
 Ala Ser Ser Ile Leu Cys Lys Leu Val Ala Lys Gly Ala Asp Ser Ser
 385 390 395 400
 Arg Leu Asn Gly Ala Gly Gln Ser Cys Leu His Leu Ala Ser Lys Ala
 405 410 415
 Gly Asn Leu Glu Val Val Arg Lys Leu Val Asn Gly Gly His Asp Ile
 420 425 430
 Leu Met Pro Asp Ile Asp Gly Leu Ser Pro Phe His Tyr Ala Leu Arg
 435 440 445
 Gly Arg Tyr Leu Gln Val Val Arg Phe Met Ser Thr Ala Cys Glu Ser
 450 455 460
 Leu Leu Ser Lys Thr Trp Arg Ser Leu Asp His Phe Gly Lys Asn Pro
 465 470 475 480
 Leu His His His Val Ser Ser Ile Phe Cys Ser Ala Glu Met Ile Asp
 485 490 495
 Phe Leu Val Gln Cys Gly Cys Asn Val Asn Asp Val Asp Arg Glu Gly
 500 505 510
 Asn Ser Ala Leu Ser Leu Tyr Met Ser Ser Ser His Leu Tyr Ile Asp
 515 520 525
 Arg Glu Ile Phe Gln Leu Leu Leu Asp Lys Gly Ala Asp Pro Leu Cys
 530 535 540
 Val Asn His His Lys Glu Asn Leu Ala His Leu Phe Met His Tyr Arg
 545 550 555 560

11510

Glu Glu Gly Ile Gly Ile Leu Gln Ile Leu Leu Lys Cys Gly Val Asp
 565 570 575
 Leu Ala Ala Arg Asp Leu Glu Gly Arg Thr Val Met His His Gly Ala
 580 585 590
 Ile Pro Gly Cys Val Arg Pro Thr Pro Pro Arg Phe Ser Ser Arg Ala
 595 600 605
 Arg Gly Phe Gly Pro Gln Ile Ser Trp Ile Phe Lys Ile Arg Ser Pro
 610 615 620
 Ser Asn Asn Gln Arg Asn
 625 630

<210> 30364
 <211> 223
 <212> PRT
 <213> A.fumigatus

<400> 30364
 Val Leu Val Gly Trp Met Ala Trp Ile Ile Leu Thr Asn Tyr Lys Gln
 1 5 10 15
 Ser Ile Leu Ser His Leu Pro Glu His Val Asp Ser Glu Thr Ala Lys
 20 25 30
 Ile Phe Val Leu Ile Tyr Ala Pro Gly Leu Lys His Ala Pro Asn Gln
 35 40 45
 Gly Gly Ser Ser Asn Pro Thr Leu Ser Val Thr Ser Ser Tyr Ser Asn
 50 55 60
 Ile Ala Pro Glu Glu Ala Arg Ser Pro Gly Glu Thr Leu Ser Gly Asp
 65 70 75 80
 Leu Ser Thr Leu Glu Pro Arg Pro Ala Asp Glu Gln Glu Gly Ala Ser
 85 90 95
 Pro Phe Phe Arg Thr Leu Tyr Thr Gln Ala Gln Ala Ile Val Asp Lys
 100 105 110
 Glu Asn Thr Ile Met Pro Phe Ser Thr Ala Thr Gly Tyr Val His Leu
 115 120 125
 Val Arg His Leu Ser Pro Asp Ile Val Tyr Val Gln Glu Ser Leu Thr
 130 135 140
 Gly Lys Gln Gly Asp Ala Val Gln His Ile Ser Gly Trp Val Arg Gln
 145 150 155 160
 Val Val Val Val Val Gly Asp Glu Gly Gly Arg Gly Gly Leu Ile Asp
 165 170 175
 Ser Glu Asp Glu Ser Val Leu Ala Glu Lys Gly Glu Lys Trp Trp Gln
 180 185 190
 Lys Glu Gly Met Thr Gly Ile Gly Lys Arg Ile Asp Val Val Asp Val
 195 200 205
 His Arg Thr Gly Glu Asp Trp Arg Arg Arg Val Ser Gly His Asp
 210 215 220

<210> 30365
 <211> 75
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (42)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30365

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Met Ser Leu Ile Leu Tyr Leu Arg Ser Ala Ser Thr Gln Tyr Asp Ile
1           5           10           15
Trp Glu Ala Pro Asp Tyr Pro Pro Glu Val Gln Glu Gln Arg His Ser
           20           25           30
Arg Ser Met Leu Ser Arg Ser Asn Pro Xaa Asn His His Thr Val Leu
           35           40           45
His Ile Ser Thr Arg Gln Gly Lys Glu Phe Glu Ile Asp Ser Thr Val
           50           55           60
Ile Ser Val Gln Thr Glu Ser Ser Gly Asn Phe
65           70           75

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<210> 30366

<211> 517

<212> PRT

<213> A.fumigatus

<400> 30366

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Ala Pro Val Asn Glu Arg Ala Thr Gly Thr Arg Ser Gly Phe Trp Asp
1           5           10           15
Ile Pro Gly Asn Asn Glu Arg Asp Ile Glu Asp Asp Phe Leu Asn Lys
           20           25           30
Phe Lys Arg His Gln Ser Arg Tyr Ile Val Arg Gln Ser Lys Arg Leu
           35           40           45
Gly Pro Arg Arg Glu Phe Arg Leu Leu Gly Gln Gly Ala Ala Pro Gln
           50           55           60
Asn Asn His Ala His Lys Gly Glu Ser Gln Val Asp Asp Val Phe Gly
65           70           75           80
Asp Asp Glu Asp Asp Glu Ser Gly Phe Phe Ser Glu Ile Gln Lys Arg
           85           90           95
Thr Ser Ala Glu Gly Pro Pro Pro Ile Thr Arg Lys Ser Thr Ser Gln
           100           105           110
Val Ile Asp Ser Ile Asn Ala Val Ser Asp Ser Met Phe Ser Lys Gln
           115           120           125
Leu Pro Ala Ala Ala Glu Leu Asn Asn Ser Leu Ala Val Pro Thr Ala
           130           135           140
Asp Gly Glu Ile Lys Asn Phe Pro Ser Glu Glu Asp Leu Ala Ala Arg
145           150           155           160
Trp Gln Ala Glu Leu Ser Asp Asp Ala Asp Glu Thr Met Pro Thr Glu
           165           170           175
Asp Asp Leu Ala Ala Arg Trp Gln Ala Glu Leu Asp Asp Asp Asp Asp
           180           185           190
Asp Leu Leu Leu Asp Asp Asp Thr Thr Asn Ala Gln Arg Pro Pro Glu
           195           200           205
Ala Ala Asn Ile Asp His Met Asn Asp Thr Ser Met Leu Gln Ser Pro
           210           215           220
Phe Gly Thr Pro Glu Asn Leu Ala Arg Pro Lys Val Gln Pro Val Ser
225           230           235           240
Tyr Thr Pro His Gln Pro Ser Thr Ser Asp Leu Leu Ser Gly Ile Pro
           245           250           255
Ala Gln Asn Thr Ala Ala Gln Pro Thr Asn Ala Ser Met Ser Ser Tyr
           260           265           270
Phe Ser Ala Gln Ala Pro Pro Asn Pro Val Thr Thr Arg Ala Glu Ser
           275           280           285
Phe Ala Glu Arg Ser Lys Glu Gly Tyr Lys Ser Pro Tyr Asp Ile Pro
290           295           300

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11512

Glu Asp Leu Ala Arg Pro Arg Arg Ala Val Ala Asn Ser Arg Thr Val
 305 310 315 320
 Val Ala Gln Pro Gly Thr Val Pro Lys Pro Pro Pro Arg Ser Ser Ser
 325 330 335
 Ile Pro Ala Pro Pro Leu Lys Ala Ser Thr Val Ser Pro Ala Pro Leu
 340 345 350
 Gly Thr Ser Ser Thr Ala Pro Thr Ala Pro Gln Lys Asn Phe Phe Glu
 355 360 365
 Glu Leu Pro Leu Pro Pro Pro Arg Pro Lys Ser Arg Pro Ala Ser Ser
 370 375 380
 Gly Arg Tyr Thr Pro Asn Ala Pro Val Ser Ala Pro Ser Leu Pro Gln
 385 390 395 400
 Ser Ile Pro Pro Pro Ala Asn Gln Tyr Ser Asn Val Pro Gly Ala Pro
 405 410 415
 Gln Ser Asn Ile Gly Pro Pro Asp Pro Pro Gln Leu Gln Gln Pro Glu
 420 425 430
 Arg Leu Asp Pro Tyr Ser Asn Leu Leu Ala Pro Asn Val Pro Ser Ala
 435 440 445
 Pro Ala Val Pro Ser Thr Ala Ser Arg Tyr Ser Pro Arg Pro Pro Gly
 450 455 460
 Val Gln Ala Gly Val Lys Pro Pro Pro Ser Pro Arg Tyr Ser Pro Ala
 465 470 475 480
 Pro Pro Gln Ser Thr Asn Ala Val Ala Ala Ala Ser Tyr Lys Trp Leu
 485 490 495
 Cys Leu Thr Thr Arg Glu Phe Leu Arg Ala Arg Ser Trp Phe Ser Ile
 500 505 510
 Ser Asn His Ala Gln
 515

<210> 30367
 <211> 65
 <212> PRT
 <213> A.fumigatus

<400> 30367
 Ser Val Ile His Met Ile Tyr Ile Gly Ser Leu Trp Trp Ser Leu Cys
 1 5 10 15
 Ile Arg Arg Ile Ile Ile Gln Glu Gln Val Val Ile Ile Ile Ile Glu
 20 25 30
 Phe Arg Leu Pro Pro Gly Ser Gln Ile Ile Phe Gly Gly His Ser Phe
 35 40 45
 Val Ser Ile Ile Arg Lys Phe Arg Leu Pro Ser Cys Gly Lys Ile Phe
 50 55 60
 Phe
 65

<210> 30368
 <211> 306
 <212> PRT
 <213> A.fumigatus

<400> 30368
 Lys Glu Ile Cys Leu Lys Met Glu Asn Glu Gly Lys Phe Gly Gly Lys
 1 5 10 15
 Asn Thr Glu Phe Lys Ala Arg Gly Glu Asn Ala Leu Ile Gln Val Pro
 20 25 30

Asp Arg Leu Asp Arg Val Arg Leu Trp Arg Leu Asn Gln Val Arg Glu
 35 40 45
 Met Gly Ala Ile Pro Gly Ile Pro Glu Tyr Gln Glu Trp Ala Arg Ala
 50 55 60
 Arg Asn Phe Ser Ile Lys Arg Gly Gly Leu Arg Ala Cys Gly Tyr Thr
 65 70 75 80
 Leu Ser Pro Arg Pro Ala Ala Phe Pro Ser Phe Ser Thr Gly Arg Cys
 85 90 95
 Thr Thr Asn Pro Ser Asp Asp Pro Ala Arg Ala Arg Lys Ala Ala Lys
 100 105 110
 His His Ser Ile Cys Pro Leu Ala Ile Gln Ser Gly Arg Ser Arg Arg
 115 120 125
 Thr Arg Thr His Pro Ala Pro Arg Glu Asp Thr Thr Thr Gly Arg Arg
 130 135 140
 Arg Gly Arg His Arg Thr Arg Ser Gly Gly Gly Gly Ser Arg Arg
 145 150 155 160
 Ser Ser Asp Ala Ser Phe Pro Asp Leu Arg Arg Arg Arg Arg Leu Trp
 165 170 175
 Thr Ser Ala Glu Ser Arg Ser Ala Leu Leu Ser Pro Arg Lys Leu Arg
 180 185 190
 Ile Ala Ser Pro Lys Arg Trp Thr His Ala Leu Gly Phe Leu Phe Leu
 195 200 205
 Pro Ile Val Arg Ala Gln Pro Ser Arg Ser Pro Val Ile His Pro Leu
 210 215 220
 Leu Pro Arg Arg Arg Arg Ser Ser Ala Thr Gly Asn Pro Ala Arg Ser
 225 230 235 240
 Asn Val Leu Arg Pro Ala Pro Arg Gly Ser Lys Arg Thr Ser Ala Arg
 245 250 255
 Ala Arg Ala Glu Ser Leu Arg Leu Gln Ser Pro Gly Pro Ala Pro Ser
 260 265 270
 Ser Ile Ser Thr Ser Asp Pro Ala Tyr Val Ala Pro Ala Pro Asp Trp
 275 280 285
 Arg Leu Phe Gln Leu Leu Leu Arg Thr Asn Pro Ala Ala His Ser Thr
 290 295 300
 Glu Leu
 305

<210> 30369

<211> 323

<212> PRT

<213> A.fumigatus

<400> 30369

Thr Lys Leu Glu Lys Trp Gly Arg Ser Pro Val Ser Arg Asn Ile Arg
 1 5 10 15
 Asn Gly Gln Glu Leu Ala Thr Phe Arg Ser Lys Gly Gly Ala Tyr Glu
 20 25 30
 Leu Ala Gly Thr Pro Cys Pro Arg Gly Arg Gln Leu Phe Leu Arg Ser
 35 40 45
 Pro Pro Ala Gly Ala Gln Pro Thr Pro Pro Met Thr Gln Pro Ala Pro
 50 55 60
 Gly Lys Gln Pro Asn Thr Thr Gln Phe Ala Pro Leu Pro Tyr Asn Pro
 65 70 75 80
 Ala Ala Pro Ala Ala Pro Glu Pro Ile Gln His Arg Glu Lys Thr Pro
 85 90 95
 Pro Pro Val Asp Ala Ala Asp Gly Thr Gly Leu Ala Ala Ala Ala

11514

100 105 110
 Ala Asp His Gly Ala Pro Val Thr Pro Pro Ser Gln Ile Ser Gly Gly
 115 120 125
 Gly Gly Gly Tyr Gly Pro Pro Pro Ser His Ala Leu Pro Tyr Ser Pro
 130 135 140
 Pro Gly Ser Tyr Ala Ser Pro Pro Pro Ser Ala Gly Leu Thr His Ser
 145 150 155 160
 Gly Ser Phe Ser Ser Gln Ser Ser Val His Ser Pro Pro Gly Val Pro
 165 170 175
 Ser Tyr Thr Pro Ser Phe Leu Ala Gly Gly Gly Pro Val Pro Pro Gly
 180 185 190
 Ile Gln Pro Gly Val Met Ser Phe Ala Pro Pro Pro Val Asp Pro Asn
 195 200 205
 Ala His Leu His Ala His Gly Gln Ser Leu Tyr Gly Ser Asn Pro Gln
 210 215 220
 Val Gln Pro Gln Val Gln Ser Gln Pro Gln Ile Gln Pro Thr Ser Pro
 225 230 235 240
 Pro Pro Pro Ile Gly Gly Tyr Ser Asn Tyr Ser Tyr Glu Pro Thr Pro
 245 250 255
 Gln Pro Thr Ala Pro Asn Tyr Asp Tyr Ala Val His Lys Gln Leu Tyr
 260 265 270
 Arg Pro Thr Glu Ala Glu Ala Asn Ser His Ala Gln Lys Tyr Ala Gln
 275 280 285
 Lys Ala Met Gln Asn Pro Gly Gln Arg Ser Arg Lys Phe Glu Asp Gly
 290 295 300
 Ala Ser Arg Val Glu Ser Ser Val Asn Arg Phe Leu Lys Lys Leu Glu
 305 310 315 320
 Lys Arg Leu

<210> 30370

<211> 117

<212> PRT

<213> A.fumigatus

<400> 30370

Ser Ala Cys Pro Ser Ile Pro Ala Gly Val Arg Pro Asn Pro Tyr Leu
 1 5 10 15
 Thr Leu Ser Ala Met Ile Ala Ala Gly Ile Asp Gly Met Arg Ser Gln
 20 25 30
 Gln Pro Leu Arg Gly Gly Asp Cys Val Thr Ser Ala Ser Glu Leu Ser
 35 40 45
 Pro Gly Glu Arg Gln Ala Leu Gly Ile Asn Thr Ile Leu Pro Lys Ser
 50 55 60
 Leu Asp Glu Ser Leu Asn Asp Leu Glu Lys Gly Leu Gly Leu Arg Glu
 65 70 75 80
 Leu Cys Gly His Met Ile Ile Ile Thr Tyr Leu Met Val Lys Arg Thr
 85 90 95
 Glu Ala Lys Ile Leu Arg Gln Met Ala Glu Asp Asp Arg Arg Asn Trp
 100 105 110
 Leu Ile Ala Arg Tyr
 115

<210> 30371

<211> 457

<212> PRT

<213> A.fumigatus

<400> 30371

Cys Gln Cys Ser Arg Ile Ser Ser Ser Ala Ala Ser Ala Gly Leu Ile
 1 5 10 15
 Ser Ile Asn Ser Lys Phe Ile Arg Ser Arg Ser Phe Ser Ile Leu Lys
 20 25 30
 Leu Thr Val Val Glu Ala Leu Cys Leu Ile Trp Tyr Thr Thr Ser Ala
 35 40 45
 Thr Thr Asn Thr Ser Ser Lys Ser Ile Leu Asn Ala Leu Pro Lys Pro
 50 55 60
 Ile Thr Leu Thr Ile Val Gln Phe Ala Phe Val Ser Ile Trp Cys Leu
 65 70 75 80
 Leu Leu Ala Tyr Leu Ser Ala Val Phe Pro Trp Leu Lys Ser Ser Val
 85 90 95
 Pro Ala Leu Arg Asn Gly Ile Arg Tyr Pro Ser Arg Asp Val Ile Val
 100 105 110
 Thr Ala Leu Pro Leu Ala Ile Phe Gln Leu Ala Gly His Ile Leu Ser
 115 120 125
 Ser Met Ala Thr Ser Gln Ile Pro Val Ser Leu Val His Thr Ile Lys
 130 135 140
 Gly Leu Ser Pro Leu Phe Thr Val Leu Ala Tyr Arg Val Phe Phe Arg
 145 150 155 160
 Ile Arg Tyr Ala Lys Ala Thr Tyr Leu Ser Leu Val Pro Leu Thr Leu
 165 170 175
 Gly Val Met Leu Ala Cys Ser Thr Gly Phe Ser Thr Asn Phe Phe Gly
 180 185 190
 Ile Leu Cys Ala Leu Leu Ala Ala Leu Val Phe Val Ser Gln Asn Ile
 195 200 205
 Phe Ser Lys Lys Leu Phe Asn Glu Ala Ser Arg Ala Glu Ser Glu Pro
 210 215 220
 Gln Ala Ser Gly Arg Lys Lys Leu Asp Lys Leu Asn Leu Leu Cys Tyr
 225 230 235 240
 Cys Ser Gly Leu Ala Phe Ile Leu Thr Leu Pro Ile Trp Phe Ile Ser
 245 250 255
 Glu Gly Tyr Arg Leu Ile Ser Asp Leu Met Gln Asp Gly Val Ile Ser
 260 265 270
 Leu Ser Glu Lys Asp Asn Ser Leu Asp His Gly Ala Leu Phe Ile Glu
 275 280 285
 Phe Val Phe Asn Gly Ile Ser His Phe Ala Gln Asn Ile Leu Ala Phe
 290 295 300
 Val Leu Leu Ser Met Ile Ser Pro Val Ser Tyr Ser Val Ala Ser Leu
 305 310 315 320
 Val Lys Arg Val Phe Val Ile Val Val Ala Ile Val Trp Phe Gly Ser
 325 330 335
 Ser Thr Thr Ser Leu Gln Ala Phe Gly Ile Ala Leu Thr Phe Val Gly
 340 345 350
 Leu Tyr Leu Tyr Asp Arg Asn Ser His Asp Asp Val Ala Asp Arg Arg
 355 360 365
 Ala Asn Ala Asp His Phe Arg Thr Lys Glu Thr Ile Leu Pro Leu Ser
 370 375 380
 Val Gln Thr Lys Lys Thr Trp Asp Ser Asn Gly Tyr Ala Phe Pro Pro
 385 390 395 400
 Ser Arg Thr Gly Glu Thr His Ser Met Asp Asn Ser Ala Val Leu Ala
 405 410 415
 Ala Asn Ser Lys Lys Glu Asp Asp Ala Phe Asp His Val Arg Pro Arg

11516

420 425 430
 Gly Ser Ser Thr Ser Arg Thr Trp Leu Pro Pro Gly Thr Lys Gln Glu
 435 440 445
 Ser Thr Trp Gln Pro Gly Asp Ala Gln
 450 455

<210> 30372
 <211> 157
 <212> PRT
 <213> A.fumigatus

<400> 30372
 Trp Ser Thr Asp Ser Val Ser Val Leu Lys Glu Arg Pro Arg Arg Met
 1 5 10 15
 Thr Gly Leu Val Arg Leu Arg Arg Arg Cys Val Arg Leu Ala Trp
 20 25 30
 Arg Val Val Ser Pro Thr Leu Pro Ala Thr Pro Leu Thr Val Arg Gln
 35 40 45
 Arg His Asp Met Leu Thr Pro Thr Ala Leu Val Lys Glu Asn Ala Thr
 50 55 60
 Pro Ser Pro Arg Arg Met Ala Thr Gly Ser Ala Ser Ala Thr Thr Gly
 65 70 75 80
 Cys Thr Thr Pro His Gln Thr Ala Trp Ser Ser Ala Thr Ala Ser Ser
 85 90 95
 Ser Ser Ala Val Thr Arg Asn Ala Pro Pro Ala Ala Pro Ser Thr Pro
 100 105 110
 Pro Thr Arg Pro Thr Ser Arg Met Cys Thr Gly Met Trp Arg Arg Ala
 115 120 125
 Arg Thr Arg Gly Ser Gly Ser Thr Met Arg Arg Thr Glu Arg Thr Leu
 130 135 140
 Gly Ala Leu Pro Pro Leu Leu Thr Arg Val Ser Ser Cys
 145 150 155

<210> 30373
 <211> 254
 <212> PRT
 <213> A.fumigatus

<400> 30373
 Thr Arg Met Ser Arg Arg Thr Ala Arg Arg Thr Ile Met Arg Ser Thr
 1 5 10 15
 Arg Thr Arg Thr Ser Arg Arg Arg Thr Gly Gly Met Ser Arg Arg Trp
 20 25 30
 Cys Arg Gly Met Arg Ala Arg Arg Arg Cys Leu Arg Gly Ser Trp Pro
 35 40 45
 Thr Ser Pro Asp Ala Arg Ala Val Ile Pro Met Cys Cys Thr Asn Gly
 50 55 60
 Ser Ser Arg Arg Ala Ser Thr Ser Arg Ser Trp Ile Ser Gly Ile Trp
 65 70 75 80
 Phe Ala Leu Ala Met Val Cys Ser Ser Ser Pro Ala Asp Phe Leu Arg
 85 90 95
 Pro Ser Pro Leu Thr Thr Thr Leu Thr Lys Cys Val Glu Gly Phe Gly
 100 105 110
 Leu Asp Leu Leu Ser Asp Gly Ser Tyr Pro Phe Thr Tyr Val Glu Gly
 115 120 125
 Ser Asn Phe Thr Arg Asn Leu Ala Ile Pro Thr Ile Asp Phe Gly Thr

130		135		140
Phe His Leu Tyr Pro Asp Ser Trp Gly Thr Ser His Glu Trp Gly Asp				
145		150		155
Leu Trp Val Gln Ser His Gly Ala Ala Cys Thr Ala Ala Gly Lys Pro				
	165		170	175
Cys Leu Phe Glu Glu Tyr Gly Val Thr Ser Asp His Cys Ala Leu Glu				
	180		185	190
Thr Pro Trp Gln Lys Thr Ser Leu Asn Thr Thr Gly Leu Ser Gly Asp				
	195		200	205
Leu Tyr Trp Gln Tyr Gly Asp Thr Leu Ser Thr Gly Pro Ser Pro Asn				
	210		215	220
Asp Gly Asn Thr Ile Tyr Tyr Gly Thr Asp Glu Phe Gln Cys Ile Val				
225		230		235
Lys Asp His Val Ala Ala Ile Lys Ala Lys Gln Gly Trp Val				
	245		250	

<210> 30374

<211> 91

<212> PRT

<213> A.fumigatus

<400> 30374

Arg Ala Ser Ala Ser Thr Ser Ser Pro Thr Ala Ala Thr Pro Ser Pro				
1	5		10	15
Thr Ser Lys Ala Ala Thr Ser Arg Ala Thr Ser Pro Ser Pro Pro Ser				
	20		25	30
Thr Leu Glu Pro Ser Thr Cys Thr Arg Thr Ala Gly Ala Pro Pro Thr				
	35		40	45
Asn Gly Ala Ile Ser Gly Tyr Asn Arg Thr Ala Leu His Ala Arg Pro				
	50		55	60
Pro Ala Ser Pro Val Cys Leu Arg Ser Thr Ala Leu Pro Pro Thr Thr				
65		70		75
Ala Arg Ser Arg Arg Pro Gly Arg Arg Pro His				
	85		90	

<210> 30375

<211> 199

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (27)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30375

His Lys Thr Ser His Pro Ala Leu Val Glu Gln Ser Ile Thr Met Lys				
1	5		10	15
Thr Leu Ala Leu Thr Leu Ala Ala Leu Leu Xaa Gln Ala Pro Pro Leu				
	20		25	30
Gln Ala Lys Met Tyr Arg Gln Asn Ile Leu Thr Phe Glu Val Ser Asn				
	35		40	45
Asp Ala Arg Ile Asn Gly Gln Lys Ile Glu Tyr Asn Asp Pro Asp Cys				
	50		55	60
Asp Gln Gly Met Gln Cys Val Val Thr Lys Thr Cys Ala Ala Gln Gly				
65		70		75
				80

11519

```

Thr Thr Thr Lys Met Lys Phe Ser Trp Leu Thr Val Ala Ser Leu Leu
      20                      25                      30
Met Gly Gln Val Ala Leu Ala Ala Pro Ser Ala Lys Thr Phe Ala Ser
      35                      40                      45
Ala Ser Gly Thr Gln Phe Ser Ile Asp Gly Lys Thr Gly Tyr Phe Ala
      50                      55                      60
Gly Ser Asn Ser Tyr Trp Ile Gly Phe Leu Thr Asn Asn Ala Asp Val
      65                      70                      75                      80
Asp Leu Val Phe Asn His Met Lys Glu Ser Gly Leu Lys Ile Leu Arg
      85                      90                      95
Val Trp Gly Phe Asn Asp Val Asn Thr Val Pro Gly Pro Gly Thr Val
      100                     105                     110
Tyr Tyr Gln Val His Ala Asn Gly Lys Ser Thr Ile Asn Thr Gly Ala
      115                     120                     125
Asp Gly Leu Gln Arg Leu Asp Tyr Val Val His Ala Ala Glu Gln His
      130                     135                     140
Gly Ile Lys Leu Val Ile Asn Phe Val Asn Asn Trp Asp Asp Tyr Gly
      145                     150                     155                     160
Gly Met Asn Ala Tyr Val Gln Ala Tyr Gly Glu Thr Asp His Asn Ala
      165                     170                     175
Phe Tyr Thr Asn Gln Asn Ile Gln Lys Ala Tyr Arg Arg Tyr Val Lys
      180                     185                     190
Ala Val Val Ser Arg Tyr Ala Ser Ser Pro Ala Val Phe Ala Trp Glu
      195                     200                     205
Leu Ala Asn Glu Pro Arg Cys Lys Gly Cys Asp Pro Asp Val Leu Tyr
      210                     215                     220
Glu Trp Ile Lys Ser Thr Ser Glu Tyr Ile Lys Lys Leu Asp Lys Arg
      225                     230                     235                     240
His Met Val Cys Ile Gly Asp Gly Met Phe Leu Leu Pro Ser Arg Leu
      245                     250                     255
Ser Pro Ser Ile Ser Ser Asn Asp Asn Thr Asp Lys Met Cys Arg Gly
      260                     265                     270
Leu Arg Pro Arg Pro Pro Leu Arg Arg Gln Leu Pro Leu His Leu Arg
      275                     280                     285
Arg Arg Gln Gln Leu His Ala Gln Pro Arg His Pro His His Arg Leu
      290                     295                     300
Trp Asn Leu Pro Pro Val Pro Gly Gln Leu Gly His Leu Pro Arg Met
      305                     310                     315                     320
Gly Arg Ser Leu Gly Thr Ile Ala Arg Arg Cys Met His Gly Arg Arg
      325                     330                     335
Gln Ala Leu Ser Val
      340

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<210> 30378

<211> 384

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (81)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30378

```

Val Arg Arg Cys His Ala Ile Pro Pro Gly Pro Gln His Ser Gly Arg
1           5           10           15

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11520

Val Gly Leu Val Tyr Arg Arg Asp Arg Leu Arg His Val Asp Arg Ala
 20 25 30
 Ala Gly Pro Ala Gln Leu Val Asp Pro Arg Glu Ala Pro Val Asp His
 35 40 45
 Ala Gln Gly Arg His Asp Pro Val Arg Pro Arg Leu Cys Arg Leu Ala
 50 55 60
 Pro Gln Pro Arg Ala Arg Leu Asp Arg Val Gln Arg Gln Leu His Ala
 65 70 75 80
 Xaa Arg Leu Ala Arg Val Asp Gly Ala Ala Leu Leu Pro Ala Leu Asp
 85 90 95
 Pro Ala Thr Gly Gly Pro Val Pro Ala Arg Gly Gln Asp Pro Arg Ala
 100 105 110
 Glu Gln Gly Ala His Arg Ala Gln Asp Arg Gln Thr Ala Arg Arg Ser
 115 120 125
 Arg Ala Arg Thr Leu Ser Pro Ala Gln Glu Lys Ile Pro Gly Gly Asp
 130 135 140
 Met Ile Asp Trp Phe Lys Ser Arg Tyr Gln Ala Gln Gly Lys Thr Ala
 145 150 155 160
 Thr Ala His Gln Leu Thr Arg Asp Gln Leu Leu Ala Thr Phe Ala Ser
 165 170 175
 Ile Tyr Asn Leu Ser Asn Ala Leu Thr Tyr Val Met Phe Asp Leu Ala
 180 185 190
 Ala Asn Pro Ala Ala Val Asp Glu Leu Arg Glu Glu Leu Asp Gln Val
 195 200 205
 Leu Gly Pro Asn Val Gly Ala Glu Ser Ile Asp Lys Thr Ala Leu Pro
 210 215 220
 Arg Leu Ile Lys Leu Asp Ser Phe Val Arg Glu Ser Gln Arg Leu Ser
 225 230 235 240
 Pro Thr Ser Leu Val Asn Ile Pro Arg Ile Val Thr Asp Pro Asn Gly
 245 250 255
 Leu Arg Leu Lys Thr Gly His Val Ile Pro Pro Gly Tyr Leu Val Met
 260 265 270
 Val Arg Ala Gln Pro Ile Asn Gln Ser Pro Thr Leu Tyr Pro Asn Pro
 275 280 285
 Glu Arg Phe Asp Ala Phe Arg Phe Ala Arg Leu Arg Gln Gln Gly Gly
 290 295 300
 Ala Asn Glu Asn Arg Trp Gln His Thr Ser Thr Gly Ala Asp Asn Ile
 305 310 315 320
 Asn Phe Gly His Gly Ile Trp Ala Cys Pro Gly Arg Phe Phe Ala Ser
 325 330 335
 Ala Glu Ile Lys Val Val Val Ala Tyr Val Ile Arg His Tyr Asp Leu
 340 345 350
 Arg Leu Ile Glu Gly Arg Pro His Pro Lys Pro Lys Tyr Gly Gly Leu
 355 360 365
 Ala Ile Phe Pro Asp Ala Gly Ala Glu Val Glu Leu Lys Pro Arg Val
 370 375 380

<210> 30379

<211> 238

<212> PRT

<213> A.fumigatus

<400> 30379

Pro Ile Ala Val Gln His Pro Tyr Pro Cys Ala Arg Asn Cys Asp Cys
 1 5 10 15
 Ile Met Thr Val Leu Pro Asp Ser Glu Asn Gly Tyr Leu Leu Asn Tyr

11522

130 135 140
 Ser Arg Ala Trp Met Val Leu Arg Phe Tyr Pro His Trp Ile Arg Pro
 145 150 155 160
 Leu Val Ala Pro Phe Leu Arg Glu Val Lys Thr Leu Glu Gln Asn Lys
 165 170 175
 Ala Leu Ile Gly Arg Lys Ile Ala Lys Leu Leu Ala Asp Gln Glu Arg
 180 185 190
 Gly Arg Ser Arg Pro Pro Arg Arg Arg Ser Pro Ala Ala Ile
 195 200 205

<210> 30381
 <211> 61
 <212> PRT
 <213> A.fumigatus

<400> 30381
 Thr Ser Tyr Lys Ala Ile Arg Gln Val Asn Glu Thr Leu Ser His Tyr
 1 5 10 15
 Cys Thr Ser Pro Glu Gly Met Thr Arg Leu Glu His Glu Gln Ser Ser
 20 25 30
 Pro Lys Gly Asp Thr Thr Tyr Leu Leu Ile Val Gly Ser Ile Lys Gln
 35 40 45
 Val His Met Lys Ser Val Ser Gly Arg Ser Leu Asp Gln
 50 55 60

<210> 30382
 <211> 76
 <212> PRT
 <213> A.fumigatus

<400> 30382
 Ser Arg Ser Pro Gly Phe Ile Met Arg Gln Lys Leu Leu Gly Phe Leu
 1 5 10 15
 Leu Ile Ile Arg Ser Ala Phe Tyr Val Phe Phe Val Ser Leu Ile Leu
 20 25 30
 Phe Ile Leu Pro Leu Ile Leu Val Ser Leu Phe Val Phe Ile Ile Arg
 35 40 45
 Leu Phe Phe Ser Leu Leu Phe Leu Gly Val Cys His Phe Phe Ser Gly
 50 55 60
 Ile Cys Leu Leu Phe Leu Arg Leu Arg Leu Leu Leu
 65 70 75

<210> 30383
 <211> 447
 <212> PRT
 <213> A.fumigatus

<400> 30383
 Asn Gly Ser His Ser Thr Gly Val Ile Ile His Glu Leu Glu His Phe
 1 5 10 15
 Ser Asn Gly Ala Asp Glu Asp Leu Val Arg Glu Ser Val Arg Ala Leu
 20 25 30
 Gly Arg Cys Ala Gln Asn Asp Pro Ser Thr Ala Lys Tyr Cys Leu Val
 35 40 45
 Val Leu Leu Arg Gln Ile Thr Ser Leu Asp Glu Thr Leu Val Ser Glu
 50 55 60

11523

Ser Leu Thr Val Ile Arg His Leu Ile Gln Gln Asp Pro Ala Ser His
 65 70 75 80
 Glu Gln Thr Val Ile Arg Leu Val Lys His Leu Gly Ser Ser Ser Ser
 85 90 95
 Pro Glu Ala Arg Ala Thr Ile Ile Trp Leu Val Gly Glu Phe Ala Gly
 100 105 110
 Val Asp Pro Lys Arg Asn Ile Ala Pro Asp Val Leu Arg Ile Leu Val
 115 120 125
 Gln Lys Phe Ala Asp Glu Pro Glu Pro Val Lys Gln Gln Ile Val Leu
 130 135 140
 Leu Gly Ala Lys Val Tyr Leu His His Leu Leu Arg Asn Pro Pro Lys
 145 150 155 160
 Gln Pro Thr Glu Asp Pro Ser Val Ser Glu Pro Lys Ile Asn Gln Glu
 165 170 175
 His Asn Glu Trp Ala Asp Asp Ala Ala Lys Glu Ser Glu Val Asn Asp
 180 185 190
 Asn Asn Lys Glu Asp Gln Arg Lys Glu Glu Pro Lys Gly Asp Gln Ile
 195 200 205
 Thr Leu Leu Trp Arg Tyr Ile Leu Leu Leu Ala Arg Tyr Asp Ser Ser
 210 215 220
 Tyr Asp Leu Arg Asp Arg Ala Arg Met Leu Lys Ala Leu Leu Ala Asp
 225 230 235 240
 Pro Ser Ser Thr Glu Leu Ala Asn Leu Ile Leu Leu Ala Arg Lys Pro
 245 250 255
 Val Pro His Ala Pro Ser Pro Ser Glu Thr Arg Lys Glu Leu Leu Leu
 260 265 270
 Gly Ser Ser Thr Leu Ile Val Gly Pro Asp Ala Gly Pro Phe Gly Leu
 275 280 285
 Ser Gly Tyr His Asn Leu Pro Asp Trp Val Glu Leu Gly Gln Glu Pro
 290 295 300
 Asp Pro Ser Leu Arg Glu Ser Glu Met Lys Pro Asp Val Thr Glu Arg
 305 310 315 320
 Ala Thr Met Thr Ala Gly Gly Lys Leu Asp Arg Ala Leu Met Glu His
 325 330 335
 Glu Ser Arg Val Ala Ala Met Lys Arg Gln Gln Asn Gly His Val Arg
 340 345 350
 Ala Gly Ala Ser Ala Ala Lys Thr Lys Thr Leu Asp Gln Trp Leu Glu
 355 360 365
 Glu Glu Ser Glu Thr Glu Glu Glu Glu Thr Asp Ser Gly Glu Glu Val
 370 375 380
 Thr Asp Ser Glu Glu Glu Glu Thr Glu Glu Glu Thr Asp Asp Glu Asp
 385 390 395 400
 Glu Glu Gly Asp Glu Asp Glu Gly Glu Asp Glu Glu Asp Glu Gly Asp
 405 410 415
 Glu Glu Asp Val Glu Ser Ala Ser Asp Asp Gln Gln Glu Ala Gln Gln
 420 425 430
 Leu Leu Ser His Asp Glu Pro Gly Ala Pro Gly Ser Arg Gly Phe
 435 440 445

<210> 30384

<211> 64

<212> PRT

<213> A.fumigatus

<400> 30384

Asn Lys Asn Ile Pro Leu Trp Met Val Pro Tyr Val Arg Tyr Gly Met

11524

```

1           5           10           15
Asp Pro Gln Leu Leu Val Ala Gln Ser Gln Gly Lys Ala Phe Arg His
                20           25           30
Glu Asn Leu Thr Trp Gln Thr Lys Leu Pro Trp Asp Met Val Val Ala
                35           40           45
Leu Lys Gln Ala Val Ser Trp Gly Arg Met Asn Ile Asp Ser Val Arg
                50           55           60

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<210> 30385
 <211> 117
 <212> PRT
 <213> A.fumigatus

```

<400> 30385
Val Val Ser Leu Ala Gly Gly Gln Gly Ala Gly Ala Gly Leu Thr Thr
1           5           10           15
Val Ala Cys Glu Gln Leu Leu Asp Ile Cys Val Lys Asn Cys Gly Tyr
                20           25           30
Pro Phe His Leu Gln Ile Ser Thr Lys Glu Phe Leu Asn Glu Leu Val
                35           40           45
Arg Arg Phe Pro Glu Arg Pro Pro Met Arg Pro Ser Arg Val Gln His
                50           55           60
Arg Ile Leu Glu Ser Ile Glu Glu Trp Arg Gln Thr Ile Cys Gln Thr
65           70           75           80
Ser Arg Tyr Lys Glu Asp Leu Gly His Ile Arg Asp Met His Arg Leu
                85           90           95
Leu Leu Tyr Lys Gly Tyr Met Phe Pro Glu Ile Arg His Glu Asp Ala
                100           105           110
Ala Val Leu Ile Phe
                115

```

<210> 30386
 <211> 166
 <212> PRT
 <213> A.fumigatus

```

<400> 30386
Lys Thr Ala Leu Met Ile Leu Ser Asn Ser Ser Ser Ser Leu Thr Ala
1           5           10           15
Asp Pro Asp Ser Ala Ser Glu Ser Ser Asn Gly Val Gly Ser Gly Arg
                20           25           30
Ala Ile Phe Ser Gly Cys Gly Leu Ser Gly Thr Glu Gly Phe Trp Lys
                35           40           45
Asp Phe Glu Leu Arg Ile Leu Ala Arg Ile Ser Ala Ile Trp Ala Ser
                50           55           60
Ser Ser Glu Ser Ser Glu Met Ala Tyr Gly Ser Arg Ser Ser Ser Ala
65           70           75           80
Ser Ser Ser Ser Ser Pro Ser Pro Ser Leu Cys Ser Ser Phe Ser Ser
                85           90           95
Ser Ser Ala Ser Asp Ser Ala Asp Ala Ala Arg Leu Phe Val Phe Pro
                100           105           110
Thr Val His Ile Ser Ser Ala Pro Pro Ser Ala Arg Phe Ser Ser Tyr
                115           120           125
Ser Arg Ser Ile Leu Ala Asn His Ser Ser Ser Ala Phe Leu Met Ser
                130           135           140
Ser Ser Val Ala Gln Ala Ala Tyr Arg Phe Asn Ser Ala Glu Leu Ile

```

145 150
 Ser Arg Lys Ala Ser Pro
 165

155

160

<210> 30387
 <211> 284
 <212> PRT
 <213> A.fumigatus

<400> 30387
 Leu Phe Arg Pro Asn Ala Lys Lys Ile Leu Ser Pro Ala Asp Arg Glu
 1 5 10 15
 Leu Leu Glu Gln Phe Gly Ala Ala Val Val Glu Cys Ser Trp Val Arg
 20 25 30
 Val Lys Glu Val Pro Trp Ser Arg Ile Gly Gly Arg Cys Glu Arg Leu
 35 40 45
 Cys Lys Cys Phe Val Pro Asn Arg Ile Tyr Val Phe Leu Gln Asp Lys
 50 55 60
 Glu Leu Met Ile Ser Arg Tyr Thr Val Pro Tyr Leu Ile Ala Ala Asn
 65 70 75 80
 Thr Val Asn Tyr Gly Arg Pro Trp Arg Leu Asn Cys Val Glu Ala Leu
 85 90 95
 Ala Ala Cys Phe Cys Ile Cys Gly His Glu Asp Trp Ala Arg Glu Val
 100 105 110
 Leu Lys His Phe Asn Tyr Gly Glu Ala Phe Leu Glu Ile Asn Ser Ala
 115 120 125
 Leu Leu Lys Arg Tyr Ala Ala Cys Ala Thr Glu Glu Asp Ile Lys Lys
 130 135 140
 Ala Glu Glu Glu Trp Leu Ala Lys Ile Glu Arg Glu Tyr Glu Glu Asn
 145 150 155 160
 Arg Ala Glu Gly Gly Ala Asp Asp Met Trp Thr Val Gly Asn Thr Asn
 165 170 175
 Arg Arg Ala Ala Ser Ala Glu Ser Asp Ala Glu Asp Glu Glu Lys Asp
 180 185 190
 Glu Gln Ser Glu Gly Glu Gly Glu Asp Glu Glu Glu Ala Glu Glu Glu
 195 200 205
 Arg Asp Pro Tyr Ala Ile Ser Asp Asp Ser Glu Asp Glu Ala Gln Met
 210 215 220
 Ala Glu Ile Arg Ala Lys Ile Leu Asn Ser Lys Ser Phe Gln Asn Pro
 225 230 235 240
 Ser Val Pro Asp Lys Pro Gln Pro Glu Lys Ile Ala Arg Pro Asp Pro
 245 250 255
 Thr Pro Leu Glu Asp Ser Asp Ala Glu Ser Gly Ser Ala Val Ser Asp
 260 265 270
 Asp Glu Glu Phe Asp Lys Ile Ile Asn Ala Val Phe
 275 280

<210> 30388
 <211> 89
 <212> PRT
 <213> A.fumigatus

<400> 30388
 Thr Lys Leu Thr Gln Arg Met Val Arg His Lys Lys Asp Asn Phe Ser
 1 5 10 15
 Arg Gly Gly Lys Lys Phe Ser Ser Asn Pro Arg Pro Arg Pro Arg Pro

11526

```

                20                25                30
Val Pro Arg Asp Asp Asp Asp Gly Ser Ala Thr Asn Arg Pro Ala Phe
                35                40                45
Lys Ala Ala Cys Trp Asp Leu Gly His Cys Asp Pro Lys Arg Cys Ser
                50                55                60
Gly Lys Arg Leu Met His Phe Gly Leu Met Arg Glu Leu Ala Ile Gly
65                70                75                80
Gln Lys Phe Ala Gly Val Val Ile Ser
                85

```

<210> 30389
 <211> 152
 <212> PRT
 <213> A.fumigatus

```

<400> 30389
Gly Val Ile Glu Asp Leu Val Ala Leu Arg Tyr Val Phe Leu Ala His
1                5                10                15
Asn Gly Asn Leu Val Ile Ile Val Leu Thr Ser Gln Leu Ser Gln Arg
                20                25                30
Arg Tyr Arg Asp Arg Asp Arg Asp Ser Tyr Arg Arg Arg Asp Arg Ser
                35                40                45
Val Asp Arg Arg Asp Asp His Arg Asp Glu Asp Ser Tyr Arg Ser Ser
                50                55                60
Arg Arg Asp Arg Ser Arg Asp Arg Arg Arg Ser Arg Asp Arg Gly Asp
65                70                75                80
Asp Arg Asp His Arg Arg Lys Ser Arg Glu Arg Asp Tyr Arg Ser Arg
                85                90                95
Arg Asp Asp Ser Arg Asp Arg Ala Arg Arg Arg Thr Asp Asp Ser Ala
                100                105                110
Asp Leu Lys His Lys Ser Arg Arg Asp Asp Ser Arg Thr Arg Asn Leu
                115                120                125
Asp Ser Lys Pro Arg Glu Val Ser Pro Thr His Asn Val Phe Glu Ile
                130                135                140
Ile Tyr Lys Pro Asp Ala Asn Lys
145                150

```

<210> 30390
 <211> 234
 <212> PRT
 <213> A.fumigatus

```

<400> 30390
Ala Ser Lys Pro Ser Thr Pro Ala Pro Thr Ala Pro Thr Glu Asp Glu
1                5                10                15
Lys Arg Ala Glu Arg Leu Ala Lys Leu Glu Ala Trp Lys Gln Lys Gln
                20                25                30
Ala Ala Glu Arg Glu Arg Lys Gln Arg Glu Ala Ala Ala Gly Gly
                35                40                45
Ala Arg Ser Ile Leu Glu Glu Ile Asp Arg Lys Ser Gly Leu Ser Pro
                50                55                60
Ala Val Gly Ser Pro Gln Ser Pro Ala Thr Pro Thr Thr Asp Ala Thr
65                70                75                80
Pro Thr Pro Tyr Ser Gly Lys Phe Asp Pro Lys Ala Ile Val Arg Asn
                85                90                95
Ala Ala Pro Ala Pro Ser Thr Pro Ala Val Leu Gly Asn Asp Val Ala

```

```
<210> 30391
<211> 73
<212> PRT
<213> A.fumigatus
```

```
<210> 30392
<211> 97
<212> PRT
<213> A.fumigatus
```

```

<400> 30392
Arg Gln Tyr Leu Arg Phe Asp Pro Val Asn Gly Thr Cys Gly Glu Tyr
1          5          10          15
Met Gly Ser Tyr Met Ser Asn Leu Gly Gly Tyr Leu Ala Asp Glu Met
          20          25          30
Ala Thr Ala Asn Cys Ser Phe Cys Pro Ile Lys Glu Thr Asn Val Phe
          35          40          45
Leu Gly Arg Val Ser Ser Ser Tyr Ser Asp Ile Trp Arg Asn Phe Gly
          50          55          60
Leu Met Trp Val Phe Ile Val Phe Asn Ile Phe Ala Ala Cys Ser Leu
65          70          75          80
Tyr Trp Trp Val Arg Val Pro Arg Asp Lys Lys Pro Val Ala Lys Ala
          85          90          95
Glu

```

<210> 30393
 <211> 79
 <212> PRT
 <213> A.fumigatus

<400> 30393
 Cys Thr Asp Glu Ala Pro Asn Asn Gln Gly Lys Ser Asp Asp Leu Ala
 1 5 10 15
 Gly Leu Leu Val Tyr Phe Ile Leu Gly Gly Gly Ala Ile Pro Thr Ile
 20 25 30
 Ala Ala Ser Thr Val Cys Ile Leu Met Leu Phe Leu Arg Phe Asn Val
 35 40 45
 Pro Ala Gly Tyr Ile Cys Tyr Asp Leu Thr Ser Phe Arg Leu Val Ala
 50 55 60
 Leu Val Ala Ile Val Thr Val Leu Cys His Phe Ser Val Gln Leu
 65 70 75

<210> 30394
 <211> 664
 <212> PRT
 <213> A.fumigatus

<400> 30394
 Asn Arg Pro Ser Ser Arg Ser Ser Met Ser Arg Leu Gln Thr Gly Lys
 1 5 10 15
 Thr Glu Phe Pro Lys Pro Thr Pro Ala Arg Ala Glu Lys Gln Arg Thr
 20 25 30
 Ser Pro Asp Arg Thr Gln Leu Met Ala Gln Phe Val Asp Val Gly Arg
 35 40 45
 Lys Leu Met Arg Arg Met Glu Glu Leu Ala Ser Lys Asp Glu Arg Arg
 50 55 60
 Asp Lys Thr Pro Ala Phe Val Gly Lys Asp Ala Arg Ser Ala Val Asp
 65 70 75 80
 Arg Asp Arg Ser Glu Arg Met Ala Glu Ala Ser Arg Ser Lys Thr Arg
 85 90 95
 Ser Gly Ala Ala His Ala Ala Ser Ser Thr Ala Ser Asp Glu His Ser
 100 105 110
 Glu Gly Ser Thr Thr Ser Ser Gln Glu Asp Ala His Asn Ser Phe Glu
 115 120 125
 Lys Arg Glu Val Pro Pro Glu Met Leu Tyr Arg Pro Ser Leu Ser Asp
 130 135 140
 Leu Leu Arg Asp Ala Ser Thr Phe Asn Met Tyr Arg Gln Arg Ala Ile
 145 150 155 160
 Ala Arg Arg Ile Leu Thr Gln Trp Leu Lys Lys Ala Val Gln Thr Gln
 165 170 175
 Gln Thr His Arg Asn Met Glu Val Val Ala Val Asn Arg Asp Arg Ile
 180 185 190
 Thr Leu Leu Arg Gln Ala Phe Glu Thr Trp Arg Thr Ile Val Gln Gly
 195 200 205
 Lys Arg Arg Ala Ala Gln Thr Glu Lys Phe Phe Lys His Leu Glu Glu
 210 215 220
 Arg Ala Gly Arg Ala Arg Asp Leu Tyr Leu Met Thr Lys Ala Phe Thr
 225 230 235 240
 His Trp Ala Gln Ile Ala Ser Asp Glu Val Ala Lys Thr Ser Ala Ala
 245 250 255
 Arg Arg His Ile Leu Arg Val Lys Tyr Phe Asn Ala Trp Arg Glu Ile

Thr	Ala	Val	Asn	Glu	Leu	Lys	Ala	Gln	Arg	Phe	Ala	Leu	Gln	Arg	Pro
		275					280					285			
Phe	Asn	Ala	Trp	Arg	Ser	Lys	Ala	Arg	Glu	Ala	Lys	Glu	Met	Glu	Gln
		290				295					300				
Arg	Ala	Val	Ala	Val	His	Asn	Lys	Lys	Leu	Ser	His	Ala	Val	Tyr	Trp
305					310					315				320	
Gln	Trp	Phe	Trp	Ser	Phe	Cys	Asp	Arg	Arg	Ala	Pro	Gln	Trp	Tyr	Asp
				325				330						335	
His	Arg	Leu	Lys	Arg	Arg	Ser	Leu	Leu	Tyr	Trp	Leu	Arg	Lys	Phe	Arg
			340					345					350		
Met	Asn	Arg	Glu	Arg	Ile	Gln	Glu	Ile	Asp	Ala	Lys	Asn	Lys	His	Thr
		355					360					365			
Ala	Thr	Ala	Thr	Ala	Cys	Gln	Leu	Trp	His	Gln	Arg	Ser	Gln	Ala	Ile
370						375					380				
Val	Ala	Ala	Glu	Lys	Asp	Ala	Ile	Ser	Met	Asn	Arg	Arg	Gln	Val	Leu
385					390					395				400	
Gln	Glu	Lys	Leu	Glu	Glu	Trp	Arg	Val	Glu	Ala	Arg	Leu	Arg	Pro	Ile
				405					410					415	
Ala	Ser	Arg	Val	Ser	Ala	Thr	Ile	Asp	Arg	Asn	Ile	Thr	Gln	Thr	Ala
			420					425					430		
Phe	Ser	Gln	Trp	Ala	Arg	Arg	Leu	Arg	Met	Leu	Arg	Glu	Ala	Lys	Glu
		435					440					445			
Val	Asp	Arg	Leu	Arg	Val	Met	Arg	Asn	Ala	Trp	Thr	Ala	Trp	Asn	Asp
450						455				460					
Leu	Leu	Arg	Cys	Gln	Ala	Leu	Thr	Ala	Arg	Ile	Glu	Glu	Arg	Met	Lys
465				470						475				480	
Ile	Glu	Ile	Met	Tyr	Lys	Trp	Ile	Leu	Ala	Glu	Arg	Phe	Arg	Leu	Met
			485					490						495	
Gln	Arg	Ile	Arg	Asp	Gln	Arg	Ile	Thr	Arg	Asp	Val	Phe	Ala	Arg	Phe
		500						505					510		
Val	Thr	Asn	Val	Arg	Asp	Thr	Tyr	Thr	Arg	Leu	Leu	Gln	His	Ala	Asp
		515					520					525			
Val	His	Glu	Glu	Tyr	Arg	Asn	Glu	Glu	Leu	Leu	Arg	Ser	Lys	Phe	Asn
530						535					540				
Cys	Trp	Arg	Glu	Gln	Leu	Ala	Leu	Gln	Arg	Gln	Arg	Glu	Val	Ala	Ala
545					550					555				560	
Ala	Glu	Phe	Tyr	Ala	Pro	Arg	Leu	Gln	Gln	Glu	Ser	Leu	Val	Ala	Trp
				565					570					575	
His	Ser	Lys	His	Gln	His	Thr	Thr	Lys	Leu	Glu	Arg	Trp	Ala	Arg	Asp
			580					585					590		
Ala	Arg	Phe	Tyr	Phe	Leu	Ala	Thr	Arg	Thr	Ile	Lys	Lys	Trp	His	Lys
		595					600					605			
Ala	Thr	Leu	Asp	Ser	Ala	Lys	Arg	Arg	Arg	Gln	Glu	Ala	Tyr	Ala	Lys
610						615					620				
Met	Arg	Arg	Arg	Ile	Lys	Ile	Asn	Leu	Ala	Leu	Lys	Ala	Leu	Thr	His
625					630					635				640	
Trp	His	Ser	Arg	Ala	Gln	His	Val	Ala	Arg	Leu	Glu	Phe	Phe	Leu	Arg
				645					650					655	
Ser	Thr	Pro	Leu	Arg	Glu	Tyr	Ile								
			660												

<210> 30395

<211> 94

<212> PRT

<213> A.fumigatus

<400> 30395

Glu Ala Ser Leu Tyr Ala Lys Ile Gln Lys Cys Glu Phe Ile Val Pro
 1 5 10 15
 Glu Thr Lys Phe Leu Gly Ile Ile Ile Gly Gln Asp Ser Ile Arg Met
 20 25 30
 Asp Pro Asp Lys Val Lys Ile Ile Val Asn Trp Gln Val Leu Thr Cys
 35 40 45
 Val Ala Asp Ala Gln Ala Phe Ile Gly Tyr Trp Phe Trp Gln Leu Leu
 50 55 60
 Pro Ala Ile Tyr Gln Gly Phe Leu Lys Asn Tyr Cys Ser Leu Ser Glu
 65 70 75 80
 Pro Asp Trp Glu Gly Cys Pro Ile Tyr Val Asp His Asn Leu
 85 90

<210> 30396

<211> 77

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (35)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30396

Gly Ser Tyr Leu Tyr Tyr His Glu His Leu Tyr Ile Pro Asn His Asp
 1 5 10 15
 Lys Leu Arg Ala Gln Leu Leu Gln Glu Cys His Asp Lys Pro Ala Ala
 20 25 30
 Gly His Xaa Gly Lys His Lys Leu Tyr Glu Leu Ile Ala Arg Glu Tyr
 35 40 45
 Tyr Trp Pro Gly Met Tyr Arg Tyr Val Asp Arg Trp Thr Arg Asn Cys
 50 55 60
 His Thr Cys Cys Arg Ser Thr Leu Ser Cys Glu Ala Arg
 65 70 75

<210> 30397

<211> 90

<212> PRT

<213> A.fumigatus

<400> 30397

Pro Ala Leu Leu Met Leu Arg Pro Leu Leu Val Ile Gly Phe Gly Asn
 1 5 10 15
 Phe Tyr Arg Arg Phe Ile Lys Asp Phe Ser Arg Ile Ile Ala Pro Leu
 20 25 30
 Val Asn Leu Thr Gly Lys Asp Val Leu Phe Met Trp Thr Thr Thr Tyr
 35 40 45
 Lys Leu Ser Phe Glu Ala Leu Lys Lys Ala Phe Val Asn Ala Pro Ile
 50 55 60
 Leu Lys Pro Phe Asn Trp Ile Lys Asp Val Val Val Lys Thr Asn Ser
 65 70 75 80
 Ser Asn Tyr Met Ser Ala Gly Val Met Ser
 85 90

<210> 30398
 <211> 72
 <212> PRT
 <213> A.fumigatus

<400> 30398
 Tyr Asp Asn Glu Gly Val Leu His Pro Val Thr Phe Phe Ser Lys Lys
 1 5 10 15
 Leu Ser Val Thr Glu Cys Asn Tyr Glu Ile Tyr Asp Lys Glu Leu Leu
 20 25 30
 Thr Ile Ile His Cys Phe Glu Glu Trp Arg Pro Lys Leu Glu Gly Thr
 35 40 45
 Pro Ser Pro Ile Lys Val Ile Thr Asp His Arg Asn Leu Glu Tyr Phe
 50 55 60
 Met Ser Thr Lys Leu Leu Asn Arg
 65 70

<210> 30399
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 30399
 Gln Ala Cys Trp Ser Glu Phe Leu Ser Arg Phe Asn Phe Lys Ile Ile
 1 5 10 15
 Tyr Arg Pro Gly Lys Gln Gly Val Lys Pro Asp Ala Leu Thr Arg Arg
 20 25 30
 Ser Glu Asp Leu Pro Lys Glu Gly Asp Glu Arg Leu Gln His Gln Ser
 35 40 45
 Gln Ile Ile Leu Lys Lys Lys Asn Leu Asp Pro Glu Ile Gln Asn Ser
 50 55 60
 Val Lys Leu Glu Ala Ile Thr Arg Ser
 65 70

<210> 30400
 <211> 167
 <212> PRT
 <213> A.fumigatus

<400> 30400
 Ala Phe His Cys Ser Met Asn Val His Asn Glu Pro Leu Trp Gln Trp
 1 5 10 15
 Pro Ser Ser Val Pro Ser Asn Thr Ser Leu Asn Ser Glu Ser Ser Gln
 20 25 30
 Ser Pro Gln Lys Pro Tyr Gln Ser Ser Asp Glu Asn Pro Thr Thr Glu
 35 40 45
 Cys Pro Glu Ser Pro Arg Lys His Tyr Pro Asn Arg Thr Cys Arg Ile
 50 55 60
 Cys Leu Glu Ser Val Pro Pro Thr Phe Tyr Pro Pro Ser Glu Asn Leu
 65 70 75 80
 Pro Gly Phe Leu Gln Pro Lys Pro Arg Val Val Tyr Glu Ser Ser Asp
 85 90 95
 Pro Glu Leu Gly Arg Leu Leu Arg Pro Cys Lys Cys Lys Gly Ser Ser
 100 105 110
 Arg Tyr Val His Glu Gly Cys Leu Gln Ser Trp Arg His Ala Asn Pro
 115 120 125

11532

Ser Tyr Gly Lys Arg His Tyr Trp Gln Trp Pro Thr Cys Gly Phe Gln
 130 135 140
 Tyr Arg Leu Glu Arg Leu Lys Trp Ala His Trp Ile Ser Ser Ala Ser
 145 150 155 160
 Thr Pro Asn Arg Ile Asn Phe
 165

<210> 30401

<211> 281

<212> PRT

<213> A.fumigatus

<400> 30401

Tyr Cys Asp Leu Thr Met Glu Asp Gln Arg Arg Asp Asn Arg Ile Ala
 1 5 10 15
 Arg Arg Asp Glu His Ile Pro Gln Ser Glu Gly Arg Gly Asn Asn Thr
 20 25 30
 His Pro Leu Pro Ser Glu Asn Pro Gln Ser His Glu Leu Asp Ser Tyr
 35 40 45
 Thr Glu Ala Cys Arg Asp Leu Glu Lys Gln Leu Lys Ala Gln Ile Asn
 50 55 60
 Leu Ile Lys Arg His Leu Gly Ala Val Gly Met Ser Gln Ser Leu Asp
 65 70 75 80
 Ala Ser Ser Gln Thr Val Gln Val Gly Pro Ser Asp Ala Met Gln Gly
 85 90 95
 Gln Pro Ile Ala Ser Glu Ser Ala Ala Pro Ile Thr Pro Thr Lys Thr
 100 105 110
 Leu Ser Ala Ser Ala Leu Thr Ser Gly His Ala His Ile His Thr Pro
 115 120 125
 Asn Ile Gly Asn Ser Glu Val Pro Val Val Asn Gln Gly Leu Val Ser
 130 135 140
 Pro Ala Val Ser Thr Ser Ser Ala Ala Thr Thr Cys Glu Ala Phe Pro
 145 150 155 160
 Asp Tyr Tyr Glu Ser Cys Glu Lys Asn Pro Pro Ile Val Asp Lys Ala
 165 170 175
 His Glu Ala Ala Tyr Asn Tyr Ala Ile Ser Lys Val Val Glu Glu Ala
 180 185 190
 Thr Arg Phe Lys Lys Ile Asp Thr Asn Val Thr Asn Pro Pro Val Leu
 195 200 205
 Asn Ala Ala Thr Asp Pro Val Val Lys Gly Arg Ser Ala Thr Pro Ser
 210 215 220
 Ala Lys Lys Ala Leu Gly Thr Phe Gln Thr Ser Lys His Ser Ser Thr
 225 230 235 240
 Val Pro Met Pro Pro Ile Arg Pro Ser Leu Thr Glu Thr Glu Ile Ala
 245 250 255
 Glu Arg Lys Thr Lys Leu Leu Ala Glu Met Lys Ala Phe Ile Val Phe
 260 265 270
 Thr Thr Gly Arg Trp Lys Asp Thr Ser
 275 280

<210> 30402

<211> 66

<212> PRT

<213> A.fumigatus

<400> 30402

11533

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Gly Asp Trp Leu Asp Ser Glu Phe Asn Glu Val Leu Glu Gly Thr Leu
1           5           10           15
Glu Gly His Cys Gln Ser Gly Ser Leu Cys Thr Phe Met Leu Gln Trp
           20           25           30
Asn Ala Gln Lys Leu Lys Ser Gln His Ile Asn Gln Ile Tyr Gln Arg
           35           40           45
Tyr Gly Ala Arg Ala Ser Ser Asp Ser Ser Asp Asp Arg Asn Thr Arg
           50           55           60
Val Ser
65

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<210> 30403

<211> 166

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (153)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30403

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Ile Leu Leu Ala Gln Gly Ile Asn Thr Ala Gln Arg Ala Ile Asp Arg
1           5           10           15
Pro Leu Cys Ser Leu Gln Thr Ser Arg Thr Asn Met Asp Ser Lys Arg
           20           25           30
Gly Val Val Ala Ala Val Leu Ala Leu Leu Pro Leu Val Ser Ala Gln
           35           40           45
Gln Pro Ala Ala Ser Ser Ala Gly Asn Pro Lys Leu Thr Thr Tyr Lys
           50           55           60
Cys Thr Thr Ala Gly Gly Cys Val Ala Gln Asp Thr Ser Val Val Leu
65           70           75           80
Asp Trp Gly Tyr His Trp Ile His Thr Val Asp Gly Tyr Thr Ser Cys
           85           90           95
Thr Thr Ser Ser Gly Val Asp Ser Thr Leu Cys Pro Asp Ala Ala Thr
           100          105          110
Cys Ala Lys Asn Cys Val Ile Glu Pro Ala Asn Tyr Thr Ser Ala Gly
           115          120          125
Val Thr Thr Ser Gly Asp Ser Leu Thr Met Tyr Gln Tyr Val Gln Ser
           130          135          140
Asn Gly Val Tyr Thr Asn Ala Ser Xaa Arg Leu Tyr Met Ser Ser Ser
145          150          155          160
Arg Pro Cys Arg Leu Asp
           165

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<210> 30404

<211> 61

<212> PRT

<213> A.fumigatus

<400> 30404

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Ser Phe Tyr Phe Phe Phe Ser Phe Ser Tyr Ile Ser Gly Asp Tyr Arg
1           5           10           15
Leu Ser Cys Asn Met Ile Tyr Ala Lys Asn Ser Ala Cys Leu Ile His
           20           25           30
Leu Ser Ser Ser Leu Lys Glu Arg Ser Leu Tyr Ala Phe Tyr Tyr Pro

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[illegible]

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<210> 30405
<211> 75
<212> PRT
<213> A.fumigatus
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<210> 30406
<211> 116
<212> PRT
<213> A.fumigatus
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<210> 30407
<211> 72
<212> PRT
<213> A.fumigatus
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<400> 30407
Phe Ile Pro Asp Asp Pro Glu Phe Pro Thr His Lys Ala Asn His Arg
1          5          10          15
Gln Tyr Leu Ala Asp Gln Ser Arg Tyr Lys Glu Val Val Pro Ile Lys
20          25          30
Asp Pro Ile Ile Arg Arg Lys Ile Arg Tyr Thr Trp Arg Leu Gln Tyr
35          40          45

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Leu Lys Asp Val Val Leu Ala Arg Met Ser Ser Pro Arg Gly Trp Lys
 50 55 60
 Asp Pro Arg Trp Arg Tyr Val Ser
 65 70

<210> 30408

<211> 489

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (58)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30408

Leu Leu Tyr Phe Lys Asp Pro Val Phe Pro Ala Pro Ala Asp Ala Phe
 1 5 10 15
 Lys Gly Phe Asp Gln Gly Gln His His Gly Met Ala Asn Pro Met Gly
 20 25 30
 Leu Asp Ser Glu Asp Glu Pro Arg Arg Gly Thr Ser Arg Ala Asn Ser
 35 40 45
 Val Arg Phe Asp Glu Ser Ala Ile His Xaa Tyr Tyr Gly Gln Ala Ser
 50 55 60
 Arg Ser Thr Ser Glu Leu Pro Leu Arg Thr Gly Ser Gly Met Gly Ser
 65 70 75 80
 His Pro Leu Thr Glu Arg Ser Leu Ser His Arg Ser Asp Gly Arg Gln
 85 90 95
 Ser Ser Ser Gly His Ser His His Ser Ala Arg Thr Asn Ser Leu Gly
 100 105 110
 Leu Glu Thr Thr Ser Arg Leu Met Gly Ser Phe Val Gly Gly Ser Pro
 115 120 125
 Leu Ile Pro Pro Pro Gly Ile Phe Phe Ile Gly Pro Val Arg Cys Val
 130 135 140
 Ile Arg Cys Trp Leu Thr Thr Asn Phe Ser His Asp Ser Leu Leu Tyr
 145 150 155 160
 Ala Ala Val Cys Ser Gly Ser Tyr Ala Ser Ile Leu Gly Tyr Pro Met
 165 170 175
 Val Gln Lys Leu Gly Leu Glu Asp Leu Val Thr His Glu Asp Gly Val
 180 185 190
 Arg Phe Ile Lys Leu Pro Met Tyr Leu Pro Glu Ala Ser Val His Gln
 195 200 205
 Ala Ser Ser Arg Pro Asn Ser Pro Val Pro Gln Leu Pro Thr Leu Thr
 210 215 220
 Ile Arg Phe Leu Val Arg Asp Met Asp Pro Asn Asp Pro Ser Ile Gln
 225 230 235 240
 Ile Ile Leu Gly Ser Asp Val Leu Arg Ser His Asn Ala Asp Ile Leu
 245 250 255
 Phe Ser Gln Asp Lys Ile Ile Met Val Asp Asp Glu Arg Asn Lys Ile
 260 265 270
 Ser Ile Pro Leu Val Arg Pro Glu Asp Asp Ser Val Phe Lys Ser Leu
 275 280 285
 Cys Thr Ala Ser Asp Cys Thr Arg Val Glu Arg Ser Thr Arg His Ala
 290 295 300
 Leu Glu Lys Gly Pro Thr Glu Val Ser Gly Asp Ser Ala Val Gly Ala
 305 310 315 320

Ile Gly Glu Leu Ser Arg Ser Arg Arg Ser Thr Ser Ala Ser Thr Thr
 325 330 335
 Ala Arg Ala Ser Thr Glu Glu Leu Asp Glu Ser Arg Lys Thr His Ser
 340 345 350
 Ser Gly Ser His Asp Val Ser Pro Val Ala Glu Gly Gln Glu Asp Ser
 355 360 365
 Gly Lys Ser Thr Ser Ala Ile Asp Phe Gln Ala His Glu Thr Ala Lys
 370 375 380
 Pro Glu Thr Ala Gly Val Trp Gly Ala Trp Arg Arg Glu Met Lys Ile
 385 390 395 400
 Asp Pro Ala Ser Ser Gly Ala Ser Lys Pro Ser Arg Gly Arg Thr Met
 405 410 415
 Lys Val Leu Arg Pro Thr Lys Ser Ser Thr Arg Val Pro Thr Ala Ser
 420 425 430
 Ser Gly Leu Gly Thr Asp Ala Ala Ser Pro Gln Pro Thr Ser Ser
 435 440 445
 Arg Ala Ser Ser Asp Glu Ser Arg Ala Gly Lys Gln Leu Ala Pro Asn
 450 455 460
 Pro Ile Gly Gly Ala Ser Ala Phe Gly Trp Leu Asn Ser Ser Gln Pro
 465 470 475 480
 Pro Lys Arg Val Val Thr Met Pro Lys
 485

<210> 30409

<211> 154

<212> PRT

<213> A.fumigatus

<400> 30409

Pro Cys Pro Phe Val His Thr Ser Arg His Asp Arg Lys Arg Lys Arg
 1 5 10 15
 Arg Asp Gln Ile Phe Glu Asn Thr Ser Ile Ala Ser Leu Val Ser Ser
 20 25 30
 Phe Ala Ser Leu Thr Asn Pro Leu Thr Ala Leu Asn Ser Ala Leu Pro
 35 40 45
 Ala Ser Pro Asn Ile Ser Asn Lys Ile Pro Ser Leu Leu Val Thr Thr
 50 55 60
 Ala Pro Ala Ser Arg Ser Arg Ala Ser Ala Thr Pro Leu Ser Ser Leu
 65 70 75 80
 Phe Met Leu Leu Thr Pro Ser Thr Ile Thr Tyr Thr Leu Cys Pro Arg
 85 90 95
 Ser Ser Lys Ser Ser Val Val Cys Val Ile Gln Ile Cys Val Ser Ile
 100 105 110
 Pro Thr Met Ile Thr Ser Arg Gly Val Ser Pro Pro Phe Thr Phe Gly
 115 120 125
 Ser Ser Ala Ser Ser Ser Gly Val Ile Ile Glu Lys Ser Val Leu Ser
 130 135 140
 Met Leu Ala Arg Thr Ser Gly Val Glu Arg
 145 150

<210> 30410

<211> 170

<212> PRT

<213> A.fumigatus

<400> 30410

11537

Thr Thr Lys Leu Leu Lys Ala Ser Ser Ala Leu Asn Ile Pro Ile Tyr
 1 5 10 15
 Val Thr Thr Gln Asn Arg Pro Arg Leu Gly Asp Ile Val Ser Glu Leu
 20 25 30
 Gln Pro Tyr Leu Ser Thr Pro Leu Val Arg Ala Asn Ile Asp Lys Thr
 35 40 45
 Leu Phe Ser Met Ile Thr Pro Glu Leu Asp Ala Leu Leu Pro Asn Val
 50 55 60
 Lys Gly Gly Glu Thr Pro Leu Asp Val Ile Ile Val Gly Ile Glu Thr
 65 70 75 80
 His Ile Cys Ile Thr Gln Thr Thr Leu Asp Leu Leu Glu Arg Gly His
 85 90 95
 Arg Val Tyr Val Ile Val Asp Gly Val Ser Ser Met Asn Lys Glu Glu
 100 105 110
 Arg Gly Val Ala Leu Ala Arg Leu Arg Asp Ala Gly Ala Val Val Thr
 115 120 125
 Ser Ser Glu Gly Ile Leu Phe Glu Ile Leu Gly Asp Ala Gly Arg Ala
 130 135 140
 Glu Phe Lys Ala Val Ser Gly Leu Val Arg Glu Ala Lys Glu Glu Thr
 145 150 155 160
 Arg Glu Ala Met Glu Val Phe Ser Lys Ile
 165 170

<210> 30411
 <211> 135
 <212> PRT
 <213> A.fumigatus

<400> 30411
 Asp Gly Leu Thr Leu Ser Arg Leu Pro Ala Pro Thr Ser Ser Leu Pro
 1 5 10 15
 Arg Thr Pro Thr Gly Thr Ile Asp Met Asn Cys Pro Val Thr Asp His
 20 25 30
 His Leu Thr Ala Asp Asp Cys Arg Tyr Tyr Val Arg Ala Ala Ala Val
 35 40 45
 Ala Arg His Ile Tyr Met Arg Lys Thr Val Gly Val Gly Arg Leu Arg
 50 55 60
 Lys Val His Gly Ser Thr Lys Asn Arg Gly Ser Arg Pro Asn His His
 65 70 75 80
 Val Asp Ala Ser Gly Ser Val Asp Arg Lys Ile Ile Gln Ser Leu Glu
 85 90 95
 Lys Ile Gly Val Leu Glu Tyr Asp Glu Glu Lys Gly Gly Arg Arg Ile
 100 105 110
 Thr Gln Ala Gly Gln Arg Asp Leu Asp Arg Ile Ala Lys Thr Thr Val
 115 120 125
 Asp Glu Glu Glu Asp Glu Glu
 130 135

<210> 30412
 <211> 154
 <212> PRT
 <213> A.fumigatus

<400> 30412
 Lys Lys Phe His Ser Ser Pro Ala Glu Ser Ile Val Tyr Gln Thr Asn
 1 5 10 15

Ser Ser Met Leu Pro Thr Cys Met Leu Leu Asp Arg Phe Asn Ser Lys
 20 25 30
 Pro Pro Ser Phe Pro Ser Cys Asn Asn Met Gly Glu Leu Phe Leu Asp
 35 40 45
 Lys Glu Asn Thr Glu Arg Phe Lys Met Lys Thr Ser Gly Thr Phe Tyr
 50 55 60
 Cys Phe Ser Arg Arg Leu Ile Tyr Ser Ser Ser Ser Ser Ser Thr
 65 70 75 80
 Val Val Leu Ala Ile Arg Ser Arg Ser Arg Trp Pro Ala Trp Val Met
 85 90 95
 Arg Arg Pro Pro Phe Ser Ser Ser Tyr Ser Arg Thr Pro Ile Phe Ser
 100 105 110
 Arg Asp Trp Met Ile Leu Arg Ser Thr Glu Pro Glu Ala Ser Thr Trp
 115 120 125
 Trp Leu Gly Arg Glu Pro Arg Phe Leu Val Glu Pro Trp Thr Leu Arg
 130 135 140
 Arg Arg Pro Thr Pro Thr Val Leu Arg Met
 145 150

<210> 30413

<211> 431

<212> PRT

<213> A.fumigatus

<400> 30413

Gln Ala Arg Gly Leu Arg Thr Arg Gly Thr Met Asn Glu Asn Asp Glu
 1 5 10 15
 Asn Gly Pro Ser Thr Arg Leu Thr Arg Ala Lys Ala Ala Ala Leu Ser
 20 25 30
 Ala Gly Asp Val Pro Thr Thr Thr Ala Ala Ala Lys Lys Pro Leu Gln
 35 40 45
 Ser Lys Lys Ala Ala Thr Asn Ser Thr Thr Thr Gly Thr Gln Arg Arg
 50 55 60
 Arg Ala Ala Leu Gly Asp Val Ser Asn Val Thr Lys Ser Glu Asn Gly
 65 70 75 80
 Glu Ala Lys Glu Thr Lys Lys Ala Ala Ser Gly Lys Val Gly Leu Thr
 85 90 95
 Ser Lys Ala Thr Met Gln Thr Gly Gly Ile Gln Lys Leu Ser Arg Thr
 100 105 110
 Asn Ser Ser Arg Thr Ala Leu Gly Ala Lys Asp Asn Ala Lys Lys Glu
 115 120 125
 Lys Pro Ala Val Glu Gly Lys Arg Pro Gly Ser Gly Ser Gly Ile Gly
 130 135 140
 Ser Thr Gln Met Lys Arg Thr Ser Ser Gln Lys Ser Val Gln Glu Lys
 145 150 155 160
 Ser Leu Gln Val Glu Glu Pro Pro Arg Lys Lys Val Glu Val Glu Lys
 165 170 175
 Lys Thr Thr Glu Lys Lys Thr Thr Val Glu Val Ser Thr Ala Lys Glu
 180 185 190
 Asp Ala Val Ile Ala Thr Glu Pro Glu Val Ala Lys Lys Pro Asp Asp
 195 200 205
 Val Val Asp Asp Leu Asp Thr Glu Asp Leu Asp Asp Pro Leu Met Ala
 210 215 220
 Ala Glu Tyr Val Val Glu Ile Phe Asp Tyr Leu Arg Asp Leu Glu Leu
 225 230 235 240
 Glu Thr Leu Pro Asn Pro His Tyr Ile Asp His Gln Pro Asp Leu Glu

245 250 255
 Trp Lys Met Arg Gly Ile Leu Val Asp Trp Leu Ile Glu Val His Thr
 260 265 270
 Arg Phe Arg Leu Leu Ala Glu Thr Leu Phe Leu Ala Val Asn Ile Ile
 275 280 285
 Asp Arg Phe Leu Ser Ala Glu Val Val Ala Leu Asp Arg Leu Gln Leu
 290 295 300
 Val Gly Val Ala Ala Met Phe Ile Ala Ser Lys Tyr Glu Glu Val Leu
 305 310 315 320
 Ser Pro His Val Ala Asn Phe Ser His Val Ala Asp Glu Thr Phe Thr
 325 330 335
 Asp Lys Glu Ile Leu Asp Ala Glu Arg His Ile Leu Ala Thr Leu Glu
 340 345 350
 Tyr Asn Met Ser Tyr Pro Asn Pro Met Asn Phe Leu Arg Arg Ile Ser
 355 360 365
 Lys Ala Asp Asn Tyr Asp Ile Gln Thr Arg Thr Leu Gly Lys Tyr Leu
 370 375 380
 Met Glu Ile Ser Leu Leu Asp His Arg Phe Met Cys Tyr Pro Gln Ser
 385 390 395 400
 His Val Ala Ala Ala Ala Met Tyr Leu Ala Arg Leu Ile Leu Glu Arg
 405 410 415
 Gly Ala Trp Val Arg Thr Leu Ala Leu Val Arg Gln Ser Asp Leu
 420 425 430

<210> 30414
 <211> 127
 <212> PRT
 <213> A.fumigatus

<400> 30414
 Gln Thr Phe His Arg Ser Thr Val Gln Thr His Thr Ser Asn Ile Gly
 1 5 10 15
 Gln Leu Asn Pro Arg Leu Ile Asn His Arg Val Pro His Tyr Gln Phe
 20 25 30
 Gln Pro Ile Ile His Ser Ile Ser Lys Gln Pro Arg Lys His His Pro
 35 40 45
 Thr Ser Pro Gln Ile His Gln Leu Thr Thr His Thr His Gln Leu Gln
 50 55 60
 Pro Gln Arg Arg Ala His Pro Gln Gly Lys Asn Val Leu Val Pro Glu
 65 70 75 80
 Asn Val His Pro Ser Pro Pro Leu Pro Arg Leu Val Pro His Asn Arg
 85 90 95
 Arg Ser Pro Leu Pro Thr Ser Arg Asn Pro Gln Leu Gln Ser Gly His
 100 105 110
 Ala Gln Pro Leu Cys Pro Ala His Gln Leu Arg Ala Leu Ala Glu
 115 120 125

<210> 30415
 <211> 185
 <212> PRT
 <213> A.fumigatus

<400> 30415
 Gln His Thr Pro Thr Ser Phe Asn His Asn Val Glu Pro Ile Arg Lys
 1 5 10 15
 Ala Lys Met Ser Trp Phe Gln Lys Thr Phe Thr Leu Pro Pro Arg Ser

[illegible]

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<210> 30416
<211> 205
<212> PRT
<213> A.fumigatus
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<210> 30417

11541

<211> 89
<212> PRT
<213> A.fumigatus

<400> 30417
Ile Asp Cys Thr Asn Ser Tyr Phe Lys His Arg Ser Ile Glu Ser Gln
1 5 10 15
Thr His Gln Ser Ser Gly Pro Ser Leu Ser Ile Pro Ala Tyr His Pro
20 25 30
Phe Asn Leu Gln Thr Thr Pro Gln Thr Pro Ser His Gln Pro Thr Asn
35 40 45
Pro Pro Thr Asn Asn Thr His Pro Pro Ala Ser Thr Thr Ser Ser
50 55 60
Pro Ser Ala Arg Gln Lys Cys Pro Gly Ser Arg Lys Arg Ser Pro Phe
65 70 75 80
Pro Pro Ala Pro Ala Ala Arg Thr Ser
85

<210> 30418
<211> 61
<212> PRT
<213> A.fumigatus

<400> 30418
Ser Gln Arg Lys Arg Ser Gln Ser Thr Arg Pro Ile Tyr Asn Thr Phe
1 5 10 15
Ile Asp Lys Ser Ser Leu Cys Thr Leu Phe Phe Leu Ala Leu Met Leu
20 25 30
Leu Asn Asn Ser Leu His Val Asn Met Leu Val Ile Ile Ala Gln Gly
35 40 45
Glu Val Ile Trp Arg Ile Tyr Arg Arg Arg Arg Ala Ser
50 55 60

<210> 30419
<211> 158
<212> PRT
<213> A.fumigatus

<400> 30419
Leu Val Phe Arg Val Pro Asp Lys Pro Tyr Ser Thr His Arg Leu Leu
1 5 10 15
Ile Gly Thr His Thr Ser Ser Asp Ala Gln Asn Tyr Leu Gln Ile Ala
20 25 30
His Val Gln Leu Pro Asn Pro Ser Ala Pro Asn Pro Asp Asp Tyr Asp
35 40 45
Glu Glu Arg Gly Glu Ile Gly Gly Tyr Gly Gly Ser Ser Lys Lys Ala
50 55 60
Pro Met Glu Ile Lys Phe Asn Ile Val Gln Lys Ile Asp His Lys Gly
65 70 75 80
Glu Val Asn Lys Ala Arg Tyr Gln Pro Gln Asn Pro Asn Ile Ile Ala
85 90 95
Thr Met Cys Thr Asp Gly Arg Val Met Val Trp Asp Arg Ser Lys His
100 105 110
Pro Ser Leu Pro Thr Gly Gln Val Asn Pro Gln Met Glu Leu Ile Gly
115 120 125
His Thr Lys Glu Gly Phe Gly Leu Ser Trp Ser Pro His Thr Ala Gly

11542

130 135 140
 Gln Leu Ala Thr Gly Ser Glu Asp Lys Thr Val Arg Ile Trp
 145 150 155

<210> 30420
 <211> 86
 <212> PRT
 <213> A.fumigatus

<400> 30420
 Arg Cys Pro Arg Arg Pro Thr Arg Ala Val Cys Ile Ser Ser Ile Leu
 1 5 10 15
 Ser Val Val Arg Leu Phe Asp Thr Asn Phe Leu Cys Ser Leu Phe Gln
 20 25 30
 His Gly Gly His Thr Asn Arg Ile Ser Asp Phe Ser Trp Asn Leu Asn
 35 40 45
 Asp Pro Trp Val Leu Cys Ser Ala Ala Glu Asp Asn Leu Leu Gln Val
 50 55 60
 Trp Lys Val Ala Asp Ala Ile Val Gly Lys Asp Leu Glu Asp Val Pro
 65 70 75 80
 Thr Glu Glu Leu Glu Pro
 85

<210> 30421
 <211> 205
 <212> PRT
 <213> A.fumigatus

<400> 30421
 Leu Asn Ile Trp His Arg Asp Leu Thr Thr Tyr Ser Lys Gly Asn Lys
 1 5 10 15
 Leu Leu Lys Pro Ser Arg Thr Tyr Thr His His Ser Ser Ile Val Asn
 20 25 30
 Asp Val Gln Tyr His Pro Leu His Ser Ser Leu Ile Gly Thr Val Ser
 35 40 45
 Asp Asp Ile Thr Leu Gln Ile Leu Asp Ile Arg Glu Ser Glu Thr Thr
 50 55 60
 Arg Ala Ala Ala Ser Thr Glu Gly Gln His Arg Asp Ala Ile Asn Ala
 65 70 75 80
 Ile Ala Phe Asn Pro Ala Ala Glu Thr Val Leu Ala Thr Gly Ser Ala
 85 90 95
 Asp Lys Thr Ile Gly Leu Trp Asp Leu Arg Asn Leu Lys Thr Lys Leu
 100 105 110
 His Ser Leu Glu Ser His Thr Asp Ser Val Thr Ser Ile Ser Trp His
 115 120 125
 Pro Phe Glu Glu Ala Val Leu Ala Ser Ala Ser Tyr Asp Arg Lys Ile
 130 135 140
 Ala Phe Trp Asp Leu Ser Arg Ala Gly Glu Glu Gln Thr Pro Glu Asp
 145 150 155 160
 Ala Gln Asp Gly Pro Pro Glu Leu Tyr Val Tyr Leu Ala Ser Phe Leu
 165 170 175
 Leu Phe Val Tyr Ser Ile Leu Ile Ser Tyr Ala Val Ser Ser Ser Thr
 180 185 190
 Ala Gly Ile Pro Thr Ala Phe Leu Thr Ser Val Gly Ile
 195 200 205

<210> 30422
 <211> 209
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (17)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30422
 Ser Arg Ile Phe Phe Leu Ser Trp Met Thr Leu His Val Pro Asp Arg
 1 5 10 15
 Xaa Ser Pro Thr Phe Thr Ser Pro Leu Cys Val Cys Gly Trp Gly Leu
 20 25 30
 Val Ala Ser Phe Gln Ser Leu Ala Thr Ser Phe Ser Thr Phe Val Val
 35 40 45
 Leu Arg Ala Phe Leu Gly Ile Thr Glu Ala Ala Phe Gly Pro Gly Val
 50 55 60
 Pro Phe Tyr Leu Ser Leu Phe Tyr Lys Arg Glu Glu Leu Ala Leu Arg
 65 70 75 80
 Asn Gly Leu Phe Ile Ser Ala Ala Pro Leu Ala Thr Ser Phe Ala Ser
 85 90 95
 Ser Leu Ala Trp Leu Ile Val Lys Val Ser Ser Asn Gly Pro Ile Ala
 100 105 110
 Pro Trp Arg Thr Leu Phe Leu Val Glu Gly Phe Pro Ser Val Phe Val
 115 120 125
 Ala Val Phe Ala Trp Ile Leu Ile Pro Asp Ser Pro Glu Ser Ala Arg
 130 135 140
 Phe Leu Glu Pro Arg Glu Arg Met Val Ala Lys Leu Arg Leu Gly Glu
 145 150 155 160
 Thr Arg Ser Asp Tyr Cys Gly Pro Asp Ser Arg Lys Phe Asn Trp Arg
 165 170 175
 Glu Val Ala Lys Ala Leu Ser Asp Pro Lys Ser Tyr Val Thr Ala Val
 180 185 190
 Arg Gly Ser His Ile Ser Pro Ala Leu Ser Leu Thr Asp Val Gln Leu
 195 200 205
 Leu

<210> 30423
 <211> 246
 <212> PRT
 <213> A.fumigatus

<400> 30423
 Arg Ala Ala Thr Ile Val Tyr Val Leu Gln Leu Gln Cys Arg Phe Gln
 1 5 10 15
 Leu His Ala Cys Val Pro Ala His His Arg Arg Val Ser Pro Gly
 20 25 30
 Met Ser Asn Pro Val Asp Gln Cys Thr His Phe Asn Ser Met Gly Tyr
 35 40 45
 Ser Ser Leu Ser Ala Gln Ala Leu Cys Ala Pro Pro Tyr Leu Ile Ala
 50 55 60
 Phe Met Val Val Leu Ala Thr Ala Tyr Leu Ser Asp Arg His Arg Ser
 65 70 75 80

Arg Ser Pro Tyr Leu Ile Ala His Ala Leu Ile Ser Ser Phe Ala Tyr
 85 90 95
 Leu Ala Ile Ala Ala Thr Gly Tyr Tyr His Glu His Leu Ser Ala Gly
 100 105 110
 Val Gln Thr Phe Ile Arg Tyr Ala Cys Val Tyr Pro Ala Thr Ser Gly
 115 120 125
 Phe Phe Ser Ala Ile Thr Leu Ile Ile Thr Trp Thr Met Asp Asn Arg
 130 135 140
 Ala Ala Lys Glu Gly Lys Gly Ala Ser Met Ala Ile Leu Asn Leu Ile
 145 150 155 160
 Gly Gln Cys Gly Pro Leu Leu Gly Thr Arg Leu Tyr Pro Arg Ser Glu
 165 170 175
 Gly Pro Trp Tyr Val Arg Gly Met Ala Thr Cys Ser Phe Phe Met Val
 180 185 190
 Val Val Ala Val Leu Ala Ile Val Leu Arg Ala Met Leu Gln Arg Gly
 195 200 205
 Val Arg Ala Ala Asp Arg Lys Gly Asp Ala Asp Gly Glu Met Glu Thr
 210 215 220
 Arg Arg Val Leu Met Asp Gly Asn Gln Phe Asn His Ser Val Glu Glu
 225 230 235 240
 Arg Phe Val Asn Ile Leu
 245

<210> 30424

<211> 222

<212> PRT

<213> A.fumigatus

<400> 30424

Ile Val Leu Arg Asn His Thr Arg Asn Ser Lys Pro Pro Lys Ala Lys
 1 5 10 15
 Pro Lys Arg Asn Thr Ala Ala Arg Trp Thr Thr Asp Ala Ser Thr Cys
 20 25 30
 Ala Ser Asn Gln Arg Ser Ala Thr Ser Ser Pro Lys Ser Pro Pro Ala
 35 40 45
 Ile Ser Asp Cys Thr Ala Ser Ser Pro Pro Gln Gly Ile Asn His Leu
 50 55 60
 Gln Ser Ala Val Glu His Ser Gln Ser Ala Leu Asn Glu Val Met Gln
 65 70 75 80
 Ile Asn Tyr Asn Gly Val Phe Asn Ser Ala Thr Ala Ala Ala Arg Gln
 85 90 95
 Met Phe Asn Tyr Gln Gln Lys Gly Ser Ile Leu Leu Val Ala Ser Met
 100 105 110
 Ser Gly Leu Ile Ala Asn Lys Gly Met Thr Ser Pro Val Tyr Asn Ser
 115 120 125
 Ser Lys Ala Ala Val Ile Gln Leu Ala Arg Ser Leu Ala Met Glu Trp
 130 135 140
 Gly Arg Arg Gly Ile Arg Val Asn Ser Leu Cys Pro Gly His Ile Leu
 145 150 155 160
 Thr Pro Met Val Glu Leu Val Phe Glu Gln Asn Pro Ala Ala Lys Ala
 165 170 175
 Thr Trp Glu Ala Glu Asn Met Leu Gly Arg Leu Ala Cys Pro Glu Glu
 180 185 190
 Phe Arg Gly Ala Ala Leu Phe Ala Leu Ser Asp Ala Ser Ser Phe Met
 195 200 205
 Thr Gly Ser Thr Met Ile Ile Asp Gly Gly His Thr Ala Trp

210

215

220

<210> 30425

<211> 62

<212> PRT

<213> A.fumigatus

<400> 30425

Leu	Leu	Pro	Gly	Val	Lys	Gly	Phe	Ser	Ser	Tyr	Ile	Cys	Pro	Arg	Glu
1				5				10					15		
Leu	Pro	Ser	Ser	Ala	Met	Asp	Leu	Leu	Lys	Glu	Val	Ser	Ala	Trp	Gly
		20					25					30			
Phe	Leu	Gln	Ser	Asn	Ala	Ile	Leu	Ser	Leu	Phe	Ile	Pro	Leu	Pro	Asn
	35					40					45				
His	Ala	Ser	Lys	Gly	Leu	Pro	Val	Met	Leu	Ile	Leu	Thr	Ile		
	50					55					60				

<210> 30426

<211> 119

<212> PRT

<213> A.fumigatus

<400> 30426

Gln	Arg	Gly	Thr	Phe	His	Pro	Arg	Arg	Glu	Asp	Ser	Glu	Val	Asn	Lys
1				5					10					15	
Tyr	Thr	His	Thr	Pro	Val	Asn	Ala	Val	Trp	Phe	Val	Val	Leu	Phe	Ser
		20					25					30			
Ile	Gly	Leu	Asn	Cys	Ile	Ala	Ile	Gly	Ser	Thr	Gln	Thr	Ala	Thr	Ala
	35					40					45				
Ile	Phe	Ser	Ile	Thr	Ala	Pro	Ala	Leu	Asp	Ile	Ser	Tyr	Val	Ser	Val
	50					55					60				
Ile	Leu	Ala	His	Arg	Leu	Tyr	Lys	Asp	Lys	Val	Lys	Phe	Val	Glu	Gly
65					70				75					80	
Pro	Phe	Thr	Leu	Gly	Lys	Trp	Gly	Ala	Ala	Ile	Asn	Trp	Val	Ser	Ile
			85					90					95		
Val	Trp	Val	Leu	Phe	Ile	Ser	Thr	Val	Leu	Phe	Phe	Pro	Pro	Thr	Val
		100						105					110		
Pro	Val	Thr	Ala	Ser	Asn	Met									
						115									

<210> 30427

<211> 566

<212> PRT

<213> A.fumigatus

<400> 30427

Phe	Arg	Val	Leu	Leu	Thr	Glu	Asn	Leu	His	Lys	Glu	Arg	Pro	Ser	
1			5					10					15		
Asp	Ser	Lys	Asn	Glu	His	His	Arg	Glu	Thr	Leu	Gly	Ser	Met	Ile	Trp
		20					25					30			
Gln	Trp	Tyr	Glu	Glu	Arg	Lys	Asp	Gly	Val	Ala	Leu	Glu	Lys	Ala	Pro
	35					40					45				
Gly	Gly	Asp	Leu	Leu	Glu	Gln	Val	His	Ser	Gly	Gly	Arg	Glu	Leu	Ser
	50					55				60					
Trp	Thr	Asp	Val	Arg	Arg	Lys	Pro	Leu	Asp	Pro	Gly	Glu	Gln	Leu	Ile
65					70				75					80	

Tyr Gln Gln Tyr Leu Ala Thr Lys Arg Gln Leu Gln Asp Ala Ser Gln
 85 90 95
 Thr Arg Gly Gln Glu Asn Leu Glu Asn Pro Thr Asp Val Leu Asp Asp
 100 105 110
 Arg Ser Ser Ser Thr Ser Glu Asp Ser Glu Thr Glu Gln Gln Gly Arg
 115 120 125
 Val Leu Asn Phe Ser Thr Ser Leu Ala His Ala Asn Arg Asn Lys Leu
 130 135 140
 Gly Leu Ser Asp Glu Asp Leu Gly Val Asn Ile Leu Leu Arg Arg Lys
 145 150 155 160
 Asn Val Tyr Asp Tyr Asp Val Arg Gly Lys Lys Gly Arg Glu Arg Met
 165 170 175
 Phe Pro Tyr Val Ala Pro Arg Lys Arg Gly Asp Glu Tyr Gly Glu Phe
 180 185 190
 Ile Arg Pro Glu Glu Tyr Leu Arg Ala Glu Glu Arg Glu Glu Ala Asp
 195 200 205
 Met Gln Gln Arg Arg Ser Glu Ala Gln Thr Lys Leu Gly Gln Lys Arg
 210 215 220
 Arg Trp Asp Glu Ala Gly Pro His Gly Arg Arg Ala Ser His Ser Gly
 225 230 235 240
 Ala Lys Arg Gln Gln Val Ala Gly Asp Ala His Lys Arg Glu Ala Gly
 245 250 255
 Gly Ala Asp Asp Leu Ser Thr Thr Glu Asp Ala Asp Gly Gly Asp Ala
 260 265 270
 Ala Ile Ser Ser Glu Asp Glu Ala Asp Glu Gln Ser Phe Glu Gly Pro
 275 280 285
 Ala Lys Ala Val Phe Glu Lys Ser Thr Ile Thr Ile Asn Ala Arg Leu
 290 295 300
 Ala Phe Val Asp Phe Thr Gly Leu His Asp Lys Arg Ser Leu Glu Met
 305 310 315 320
 Leu Ile Pro Leu Ile Gln Pro Arg Lys Leu Ile Leu Val Gly Gly Met
 325 330 335
 Lys Glu Glu Thr Thr Ala Leu Ala Thr Glu Cys Lys Lys Leu Leu Ala
 340 345 350
 Ala Lys Ala Gly Val Asp Val Ser Ser Pro Asp Ser Ala Leu Ile Phe
 355 360 365
 Thr Pro Thr Asn Gly Glu Thr Val Asp Ala Ser Val Asp Thr Ser Ala
 370 375 380
 Trp Met Val Lys Leu Ser Thr Asn Leu Val Arg Arg Leu Lys Trp Gln
 385 390 395 400
 His Val Arg Ser Leu Gly Val Val Thr Leu Thr Ala Gln Leu Arg Gly
 405 410 415
 Pro Glu Leu Asn Pro Lys Glu Glu Ser Glu Glu Ser Ala Ser Lys Lys
 420 425 430
 Gln Lys Val Leu Gln Asp Glu Ala Ser Ser Ala Ala Thr Ser Thr Leu
 435 440 445
 Gly Glu Thr Lys Pro Ala Val Asp Lys Ser Asp Val Phe Pro Val Leu
 450 455 460
 Asp Val Leu Pro Ala Asn Met Ala Ala Gly Thr Arg Ser Met Thr Arg
 465 470 475 480
 Pro Leu His Val Gly Asp Phe Arg Leu Ala Asp Leu Arg Lys Val Met
 485 490 495
 Gln Ser Ala Gly His Lys Ala Glu Phe Arg Gly Glu Gly Thr Leu Leu
 500 505 510
 Ile Asp Gly Met Val Ala Val Arg Lys Ser Gly Thr Gly Arg Ile Glu
 515 520 525

11547

Ile Glu Ala Ser Ala Gln Ser Ser Thr Met Asn Gln Ala Thr Gly Arg
 530 535 540
 Gly Val Ala Ser Phe Leu Ala Val Lys Arg Lys Ile Tyr Asp Gly Leu
 545 550 555 560
 Ala Val Val Ala Gly Ser
 565

<210> 30428
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 30428
 Arg Ser Ala Ile Thr Ser Leu Arg Asp Gly Ser Tyr Lys Ile His Ser
 1 5 10 15
 Asn Leu Asn Gln Thr Lys Tyr Val Asp Arg Ser Thr His Asn Phe Thr
 20 25 30
 Glu Pro Asn Ala Val Leu Leu Asn Leu Arg Leu Asn Pro Pro Ser Glu
 35 40 45
 Pro Leu Val Tyr Thr Arg Ser Ser Ala Asp Gln Tyr Ile Ser Tyr Arg
 50 55 60
 Gln Gln Lys Arg
 65

<210> 30429
 <211> 199
 <212> PRT
 <213> A.fumigatus

<400> 30429
 Ile Ile Ala Ile Ile Phe His His His Ser Ser His His His Arg Phe
 1 5 10 15
 Gly Thr His Ile Ser Val Met Ala Phe Phe Leu Arg Arg Pro Phe Ala
 20 25 30
 Val Pro Thr Ala Leu Arg Gln Ala Pro Lys Ala Ala Asn Thr Ala Arg
 35 40 45
 Phe Ile His Asn Ser Pro Ile Lys Pro Val Gln Ser Lys Pro Leu Gly
 50 55 60
 Pro Cys Ser Ser Ser Ile Phe Ala Gln Ser Lys Gln Thr Ile Gln Asn
 65 70 75 80
 Ala Phe Arg Arg Thr Tyr Met Gln Gln Ser Tyr Gly Thr Ala Gln Arg
 85 90 95
 Gly Asp Leu Thr Gln Arg Leu Leu Tyr Gly Ala Ala Ile Val Gly Gly
 100 105 110
 Thr Val Met Ala Thr Asn Phe Ile Phe Asn Arg Glu Thr Arg Glu Asp
 115 120 125
 Gly Gly Met Pro His Tyr Glu Arg Ser Tyr Leu Asn Glu Thr Phe Met
 130 135 140
 His Thr Gly Leu Gly Val Gly Ile Ile Gly Ile Ala Ala Arg Ala Leu
 145 150 155 160
 His Met Asn Gly Trp Ser Tyr Arg Leu Met Ala Thr Asn Pro Trp Leu
 165 170 175
 Val Ala Gly Val Gly Leu Ala Ala Ser Met Gly Thr Met Phe Ala Thr
 180 185 190
 Tyr Tyr Thr Ser Pro Asp Lys
 195

<210> 30430
 <211> 164
 <212> PRT
 <213> A.fumigatus

<400> 30430
 Arg Val Phe Ser Tyr Val Met Lys Tyr Gly Leu Trp Ala Ala Phe Asn
 1 5 10 15
 Val Thr Gln Ala Ala Leu Leu Ser Pro Leu Met Phe Met His Pro Ala
 20 25 30
 Leu Leu Ala Arg Ala Gly Leu Tyr Thr Val Gly Met Met Gly Ser Ile
 35 40 45
 Ala Phe Val Gly Ala Thr Ala Lys Gln Glu Lys Tyr Leu Tyr Leu Gly
 50 55 60
 Gly Pro Leu Leu Ala Gly Val Thr Ile Val Ala Leu Ser Gly Leu Ala
 65 70 75 80
 Pro Leu Val Ile Pro Ala Thr Ala Ala Arg Ala Leu Met Trp Ser Glu
 85 90 95
 Lys Ile Trp Leu Tyr Gly Gly Leu Ala Val Phe Gly Gly Phe Thr Leu
 100 105 110
 Tyr Asp Val Gln Lys Ile Leu His His Ala Arg Leu Ala Glu Arg Gly
 115 120 125
 Leu Val Arg Arg Asp Val Val Asn Glu Ser Ile Ser Leu Glu Leu Asp
 130 135 140
 Phe Ile Asn Ile Phe Val Arg Met Val Gln Ile Leu Ala Met Gln Arg
 145 150 155 160
 Asn Asn Arg Lys

<210> 30431
 <211> 91
 <212> PRT
 <213> A.fumigatus

<400> 30431
 Ala Glu Asp Asn Gly Met Gly Ile Gln Ser Pro Gly Ile Leu Val Ser
 1 5 10 15
 Thr Thr Gly Ile Ile Arg Thr Arg Tyr Thr Tyr Thr Arg Ala Phe Gln
 20 25 30
 Ala Val Leu Phe Glu Pro Asp Phe Leu Gln Gly Val Lys Asp Gln Ala
 35 40 45
 Phe Ala Gln Ile Arg Arg Ile Gly Gln Ser Ser Pro Gln Thr Thr Cys
 50 55 60
 Ile Arg Phe Val Val Pro Gly Met Gln Tyr Lys Gln Gln Val Phe Thr
 65 70 75 80
 Arg Gln Glu His Arg Arg Gln Leu Lys Arg Ala
 85 90

<210> 30432
 <211> 208
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE

<222> (178)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30432

```

Ile Ala Thr Asp Val Ser Phe Asp Arg Tyr Cys Phe Pro Val Ile Ser
1           5           10           15
Ile Asp Asp Asp Arg Arg His Ala Asp Pro Val Pro Phe Ser Pro Gly
           20           25           30
Gly Arg Arg Asp Arg Pro Cys Leu Arg Phe Trp Trp Gln Gln Leu Gly
           35           40           45
Ser Gly Leu Leu Ser Arg Gln Arg Cys Pro Ala Glu Ala Gln Ser Asp
           50           55           60
Arg Lys Val Gly Leu Val Thr Gly Val Lys Trp Met Gly Gly Pro Cys
65           70           75           80
Val Gly Asn Thr Tyr Lys Pro Glu Ser Ile Asp Tyr Pro Ser Leu Cys
           85           90           95
Leu Gln Asp Ser Pro Leu Gly Ile Arg Phe Ala Asn Pro Val Thr Ala
           100          105          110
Phe Pro Ala Gly Ile Asn Ala Gly Ala Thr Trp Asp Thr Gln Leu Leu
           115          120          125
Tyr Ala Arg Gly Ala Ala Met Gly Ala Glu Ala Lys Gly Leu Gly Ile
           130          135          140
His Val Gln Leu Gly Pro Val Ala Gly Pro Leu Gly Lys Asn Pro Asn
145          150          155          160
Gly Gly Arg Asn Trp Glu Gly Phe Ser Val Asp Pro Tyr Leu Ser Gly
           165          170          175
Val Xaa Met Glu Lys Thr Ile Arg Gly Met Gln Asp Ser Gly Val Gln
           180          185          190
Ala Cys Ala Lys Val Cys Ser Pro Arg Gln Gln Lys Glu Ala Ser Cys
           195          200          205

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<210> 30433

<211> 100

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (82)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30433

```

His Trp Leu Gly Asn Glu Gln Glu His Tyr Arg Asp Thr Ile Ser Ser
1           5           10           15
Asn Ile Gly Asp Arg Ala Ala His Glu Leu Tyr Val Trp Pro Phe Met
           20           25           30
Asp Ala Val Lys Ala Gly Val Ala Ser Val Met Cys Ser Tyr Asn Lys
           35           40           45
Val Asn Gly Thr Trp Ala Cys Gln Ser Asp Ala Leu Asn Asn Lys Leu
           50           55           60
Met Asn Glu Glu Leu Gly Phe Pro Gly Tyr Ile Met Thr Asp Trp Asn
65           70           75           80
Ala Xaa His Ser Thr Val Asn Ser Ala Val Val Gly Ile Gly Leu Glu
           85           90           95
His Ala Gly Gln
           100

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<210> 30434
 <211> 86
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (25), (81)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30434
 Glu Arg Ile Gly Tyr Thr Asp Thr Met Lys Thr Phe Ala Ile Leu Gly
 1 5 10 15
 Ala Phe Phe Ser Ser Ala Leu Ala Xaa Thr Leu Cys Asp Gln Tyr Ala
 20 25 30
 Thr Tyr Ser Asn Gly Arg Tyr Thr Val Asn Asn Asn Leu Trp Gly Met
 35 40 45
 Ser Ser Gly Ser Gly Ser Gln Cys Thr Tyr Val His Ser Ile Ser His
 50 55 60
 Ser Gly Leu Thr Leu Ala Tyr Asp Leu Gly Arg Gly Pro Gly Gly Arg
 65 70 75 80
 Xaa Pro Ser Ser Lys Thr
 85

<210> 30435
 <211> 99
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (88)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30435
 Gln Gly Arg Tyr Arg Ile Asp Ser Ser His Gln Asn Asp Glu Lys Glu
 1 5 10 15
 Leu Met Glu Trp Arg Met Gln Glu His Gly Gly Ile Asp Leu Ile Phe
 20 25 30
 His Thr Asn Leu Phe Ser Ser Lys Thr Met Asp Leu Ala Val His Pro
 35 40 45
 Ser Glu Val Asn Met Ser Phe Leu Asp Pro Val Ser Gly Ser Trp Ala
 50 55 60
 Ser Ile Ser Gly Thr Ala Ala Leu Val Ala Glu Gln Glu Thr Val Lys
 65 70 75 80
 Arg Tyr Tyr Ser Pro Ala Leu Xaa Ala Trp Leu Gly Asp Leu Gly Gln
 85 90 95
 Gly Val His

<210> 30436
 <211> 95
 <212> PRT
 <213> A.fumigatus

<400> 30436

```

Thr Thr Asp Ile Asp Ile Ser Pro Cys Leu Ser Val Gln Tyr Thr Met
1           5           10           15
Ser Ser Thr Ile Asn Thr Ser Thr Gly Asn Lys Pro Val Asp Pro Tyr
          20           25           30
Lys Ala Lys Ser Leu Glu Asp Pro Pro Leu Gln Gln Lys Val Glu Asp
          35           40           45
Met Val Asn Phe Ile Ser Glu Thr Lys Phe Gly Met Leu Thr Thr Lys
          50           55           60
Leu Ser Asn Ser Asp Leu Leu Thr Ser Arg Cys Met Ala Pro Ser Arg
65           70           75           80
Glu Gly Thr Val Leu Ile Leu Pro Thr Lys Met Met Lys Lys Ser
          85           90           95

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<210> 30437

<211> 186

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (182), (183)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30437

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Ser Ser Ser Thr Asn Asp Asp Val Tyr Pro Thr Ala Leu Tyr Arg Ser
1           5           10           15
Ile Ser Gly Thr Gly Cys Gly Ala Thr Gly Arg Met Met Ala Ser Thr
          20           25           30
Asp Arg Pro Ala Ser Arg Ser Pro Ser Arg Ile His Ile Pro Asn Ser
          35           40           45
Ser Phe Ser Thr Ala Asp Arg Cys Ala Cys Asn Cys Ala Ser Cys Thr
          50           55           60
Thr Leu Ser Ala Leu Pro Arg Phe Thr Arg Pro Cys Ser His Gly Ile
65           70           75           80
Asn Gly Ser Pro Val Pro Ser Ser Arg Ser Ser Ile Val Asp Pro Ser
          85           90           95
Ser Thr Pro Ile Ser Arg Pro Ala Arg Pro Trp His Leu Asp Ser Ala
          100          105          110
Gly Gly Thr Gly Met Ser Thr Thr Ser Thr Pro Ala Val Arg Arg Ser
          115          120          125
Ile Cys Ala Thr Ser Ser Ser Thr Leu Ala Thr Gly Gly Ser Gly Cys
          130          135          140
Thr Thr Pro Ser Asp Leu Ser Thr Pro Ile Val Thr Phe Leu Leu Arg
145          150          155          160
Pro Glu Arg Gly Asn Ser Pro Ser His Asn Val Phe Thr Pro Arg Pro
          165          170          175
Lys Asp Arg Ala Cys Xaa Xaa Pro Pro Pro
          180          185

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<210> 30438

<211> 97

<212> PRT

<213> A.fumigatus

<400> 30438

11552

Ser Asn Asn Pro Ser Ser Ala Glu Arg Ser Glu Pro Arg Pro Val Gly
 1 5 10 15
 Pro Lys Thr Pro Trp Lys Cys Gly Glu Val Gly Val Thr Thr Ile Asn
 20 25 30
 Ile Glu Ser Cys Arg Leu Asn Thr Phe Gly Thr Asp Ile Thr Thr Tyr
 35 40 45
 Leu Ser Ser Ile Gly Ile Lys Met Ser Ala Glu Glu Gln Val Arg Leu
 50 55 60
 Asp Asn Phe Asp Ser Ile Phe Ser Leu Asp Gly Lys Val Ala Val Val
 65 70 75 80
 Thr Gly Gly Ser Arg Gly Leu Gly Leu His Ala Ala Ser Gly Tyr Val
 85 90 95
 Tyr

<210> 30439

<211> 141

<212> PRT

<213> A.fumigatus

<400> 30439

Ala Met Val Arg Phe Ala Pro Leu Leu Thr Ala Lys Ala Thr Arg Glu
 1 5 10 15
 Ser Pro Ser Arg Val Ile Val Thr Gly Ser Val Ala Gly Ile Gly Val
 20 25 30
 Gly Ser Ile Gly Glu Asn Ala Thr Phe Ala Tyr Ser Ala Ser Lys Ala
 35 40 45
 Ala Val Ile His Leu Ala Lys Asn Leu Ala Val Glu Leu Gly Pro Arg
 50 55 60
 Gly Ile Leu Cys Asn Ala Ile Ala Pro Gly Phe Tyr Pro Ser Lys Met
 65 70 75 80
 Ala Asn Gly Leu Ile Glu Lys Gln Gly Gly Leu Lys Gln Leu Glu Glu
 85 90 95
 His Ser Pro Asn Arg Arg Leu Gly Arg Pro Glu Asp Ile Ala Gly Leu
 100 105 110
 Val Val Phe Leu Ser Ser Arg Ala Ala Ser His Leu Asn Gly Ala Val
 115 120 125
 Ile Val Thr Asp Gly Gly Ala Val Leu Lys Gly Arg Leu
 130 135 140

<210> 30440

<211> 157

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (154), (155)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30440

Trp Arg Arg Pro Thr Gly Arg Pro Ala Gly Arg His Arg Ala Ser Thr
 1 5 10 15
 Ser Pro Thr Ala Pro Phe Pro Pro Gln Thr Ala Ala Pro Ala Thr Ala
 20 25 30
 Pro Ala Ala Pro Arg Ser Ala Pro Cys Arg Ala Ser Arg Gly Pro Ala

11553

35 40 45
 Ala Thr Gly Ser Thr Ala Pro Pro Cys Pro Pro Ala Asp Pro Ala Leu
 50 55 60
 Ser Thr His His Arg Arg Pro Ser Ala Gly Pro Pro Asp Pro Gly Thr
 65 70 75 80
 Trp Thr Ala Pro Ala Gly Arg Gly Cys Gln Pro Pro Arg Arg Pro Pro
 85 90 95
 Ser Gly Ala Ala Ser Ala Pro Pro Pro Pro Ala Pro Ser Pro Pro Ala
 100 105 110
 Ala Ala Ala Ala Arg Arg His Pro Thr Ser Ala Pro Gln Ser Ser Arg
 115 120 125
 Phe Ser Ser Gly Pro Asn Gly Gly Thr Pro Arg Pro Thr Thr Ser Ser
 130 135 140
 Pro His Gly Arg Arg Thr Glu His Ala Xaa Xaa Pro Pro
 145 150 155

<210> 30441

<211> 178

<212> PRT

<213> A.fumigatus

<400> 30441

Pro Leu Arg Cys Ile Leu Thr Ala Ser Ser Leu Leu Gln Ala Gly Cys
 1 5 10 15
 Ser Lys Val Tyr Ile Thr Ser Arg Lys Ala Lys Ala Cys Asp Glu Ala
 20 25 30
 Val Ala Ala Leu Asn Ala Leu Pro Asn Lys Arg Pro Gly Ala Val Ala
 35 40 45
 Ile Ala Val Pro Ala Asp Asn Ala Arg Met Asp Asp Leu Asp Arg Leu
 50 55 60
 Val Ala Glu Val Lys Lys Thr Thr Asp His Val Asp Ile Leu Phe Ala
 65 70 75 80
 Asn Ala Gly Ala Thr Trp Gly Glu Arg Phe Glu Lys Tyr Pro Glu Ser
 85 90 95
 Ala Phe Ser Lys Val Met Asp Leu Asn Val Lys Ser Val Phe Tyr Leu
 100 105 110
 Val Gln Lys Tyr Val Pro Ile Ser Phe Trp Cys Ile Ser Thr Leu Thr
 115 120 125
 Glu Leu Trp Leu Gly Leu Pro Pro Tyr Ser Arg Pro Lys Gln Pro Val
 130 135 140
 Ser Arg Pro Arg Ala Ser Ser Ser Leu Val Pro Ser Leu Ala Leu Gly
 145 150 155 160
 Ser Ala Leu Ser Ala Lys Met Pro Pro Leu Arg Thr Pro Pro Pro Lys
 165 170 175
 Gln Pro

<210> 30442

<211> 69

<212> PRT

<213> A.fumigatus

<400> 30442

Val Ile Pro Phe Phe Leu Leu Leu Lys Ser Ser Pro Leu Ile Trp His
 1 5 10 15
 Ile Gly Asn Glu Lys Thr Val Asp Arg Arg Val Tyr Leu Asp Ser Pro

11554

	20		25		30
Leu	Ser	Ile	Gln	Val	Val
	35		40		45
Arg	Ala	Met	Glu	Ile	Ile
	50		55		60
Thr	Val	Ala	Lys	Leu	
65					

<210> 30443

<211> 237

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (4), (5)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30443

Gly	Gly	Gly	Xaa	Xaa	His	Ala	Arg	Ser	Phe	Gly	Arg	Gly	Val	Lys	Thr
1			5						10				15		
Leu	Trp	Asp	Gly	Glu	Phe	Pro	Arg	Ser	Gly	Arg	Arg	Arg	Asn	Val	Thr
			20					25					30		
Ile	Gly	Val	Leu	Arg	Ser	Asp	Gly	Val	Val	Gln	Pro	Leu	Pro	Pro	Val
			35				40					45			
Ala	Arg	Val	Leu	Glu	Glu	Val	Ala	Gln	Met	Leu	Arg	Arg	Thr	Ala	Gly
			50				55				60				
Val	Glu	Val	Val	Asp	Ile	Pro	Val	Pro	Pro	Ala	Leu	Ser	Lys	Cys	Gln
65					70				75						80
Gly	Leu	Ala	Gly	Arg	Leu	Met	Gly	Val	Asp	Gly	Ser	Thr	Met	Leu	
				85					90				95		
Asp	Leu	Leu	Glu	Gly	Thr	Gly	Glu	Pro	Leu	Ile	Pro	Trp	Leu	Gln	Gly
			100					105					110		
Arg	Val	Lys	Arg	Gly	Lys	Ala	Leu	Ser	Val	Val	Gln	Leu	Ala	Gln	Leu
			115				120					125			
Gln	Ala	Gln	Arg	Ser	Ala	Val	Glu	Lys	Glu	Leu	Leu	Gly	Met	Trp	Met
			130				135					140			
Arg	Asp	Gly	Asp	Arg	Leu	Ala	Gly	Arg	Ser	Val	Asp	Ala	Ile	Ile	Leu
145					150					155					160
Pro	Val	Ala	Pro	His	Pro	Val	Pro	Glu	Ile	Asp	Arg	Tyr	Asn	Ala	Val
				165				170					175		
Gly	Tyr	Thr	Ser	Ser	Phe	Val	Leu	Leu	Asp	Tyr	Pro	Ala	Gly	Val	Ile
			180					185					190		
Pro	Val	Arg	Lys	Phe	Arg	Glu	Thr	Asp	Leu	Glu	Leu	Gly	Gln	Glu	Met
			195				200					205			
Thr	Ala	Pro	Val	Leu	Gly	Ser	Trp	Asp	Lys	Ala	Asn	Arg	Leu	Leu	Cys
			210			215					220				
Lys	Ser	Ser	Leu	Ser	Ser	Cys	Ser	Arg	Val	Pro	His				
225					230				235						

<210> 30444

<211> 66

<212> PRT

<213> A.fumigatus

<400> 30444

11555

Asn Asn His Ile Ser Thr Cys Glu Leu Ile Ser Arg Gln Asn Asn Ser
 1 5 10 15
 Leu Ser Phe Leu Asn Ser Gly Asn Tyr Gly Gly Leu Phe Val Glu His
 20 25 30
 Val Pro Thr Asp Thr Gly Thr Ser Arg Asn Gly Tyr Lys Gln Pro Ser
 35 40 45
 Arg His Leu Ala Glu Met Leu Trp Thr Ala Thr His Arg Ile Gln Leu
 50 55 60
 Cys Leu
 65

<210> 30445

<211> 383

<212> PRT

<213> A.fumigatus

<400> 30445

Cys Ala Asp Leu Gly Leu Leu Gly Ala Met Phe Ser Lys Thr Ile Arg
 1 5 10 15
 Asn Val Asn Trp Asp Val Pro Ile Gln Phe Phe Gly Gly His Tyr His
 20 25 30
 Ile Arg Asp Tyr Ala Arg Tyr Asp Ser Lys Ala Tyr Gly Leu Ala Ser
 35 40 45
 Gly Arg Phe Met Glu Thr Ile Gly Phe Leu Ser Ile Asp Gly Leu Ser
 50 55 60
 Thr Ser Lys Asn Arg Leu Lys Pro Ala Gln Ala Thr Pro Ser Phe Asn
 65 70 75 80
 Arg Arg Tyr Ile Asp Asn Asn Leu Tyr Ser Phe His His His Thr Gly
 85 90 95
 His Asp Arg Asp Ser Phe Pro Thr Glu His Gly Pro Asn Ile Ser His
 100 105 110
 Leu Ile Gln Gln Ser Arg Asp Ala Leu Asp Leu Asp Arg Val His Gly
 115 120 125
 Cys Ala Pro Arg Asp Leu Trp Met Thr Arg Val Lys Tyr Pro Ser His
 130 135 140
 Asp Ser Ile Tyr Thr Trp Leu Glu Glu Asn Val Leu Pro Ser Gln Val
 145 150 155 160
 Lys Asp Asp Ser Arg Lys Gly Lys Pro Ala Leu Val Ile Val Asn Thr
 165 170 175
 Gly Ala Ile Arg Phe Asp Ile Phe Lys Gly Pro Phe Thr Gln Asp Thr
 180 185 190
 Thr Phe Ile Val Ser Pro Phe Thr Ser Gly Phe Arg Tyr Ile Lys Asp
 195 200 205
 Ile Pro Tyr Asp Lys Ala Gln Thr Val Val Asp Ile Leu Asn Lys Gln
 210 215 220
 Pro Gln Ile Leu Thr Ala Pro Lys Asp His Thr Asn His Thr Pro Trp
 225 230 235 240
 Thr Leu Ala Pro Pro Glu Gln Ser Met His Met His Asp Lys Ile Val
 245 250 255
 Glu Ser Asp Asp Val Ala Ala His Tyr Leu Thr Asp Gln Ser Arg Leu
 260 265 270
 Pro Met Ser Thr Pro Phe Thr Pro Lys Val Phe Pro Gly Tyr Thr Thr
 275 280 285
 Val Asp Asp Gly Gly Ile Asp Gly Asp Asp Thr Val His Ser Pro Ile
 290 295 300
 Ser Phe Tyr Arg Val Pro Asn Cys Ile Gln Ala Leu Ile Asn Pro Gly

11556

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305              310              315              320
Thr Ser Ala Asp Pro Asn Thr Val Asp Leu Val Tyr Ile Asp Phe Ile
              325              330              335
Glu Pro Tyr Val Ala Leu Ala Ala Lys Phe Ala Arg Leu Asp Leu Asp
              340              345              350
Phe Ala Arg Asp Ser Asp Val Tyr Met Pro Phe Glu Thr Leu Thr Asp
              355              360              365
Leu Ile Leu Asp Trp Val Lys His Asn Trp Lys Cys Glu Asp Ala
              370              375              380

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<210> 30446

<211> 355

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (90)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30446

```

Pro Asp Leu Phe Ser Pro Ser Ser Arg Leu His Lys His Ser Ile Ser
1              5              10              15
Pro Pro His Gly Thr Gln Val Thr Leu Arg Leu Leu Ala Ala Pro Leu
              20              25              30
Asn Pro Ala Asp Val Asn Gln Ile Gln Gly Val Tyr Pro Ser Lys Pro
              35              40              45
Pro Phe Gln Thr Thr Leu Gly Thr Met Glu Pro Ser Ala Val Ala Gly
              50              55              60
Asn Glu Gly Ala Phe Glu Val Ile Ala Thr Gly Ser Asn Val Lys Asn
65              70              75              80
Leu Ala Lys Gly Asp Trp Val Val Met Xaa Gln Thr Gly Gln Gly Thr
              85              90              95
Trp Arg Thr His Ala Gln Leu Asp Glu Ser Gln Val Ile Arg Ile Glu
              100              105              110
Asn Lys Glu Gly Leu Ser Pro Leu Gln Val Ser Thr Val Ser Val Asn
              115              120              125
Pro Val Thr Ala Tyr Arg Met Ile Lys Asp Phe Cys Asp Trp Asp Trp
              130              135              140
Met Arg Ala Gly Glu Glu Trp Leu Ile Gln Asn Gly Ala Asn Ser Gly
145              150              155              160
Val Gly Arg Ala Ala Ile Gln Leu Ala Arg Glu Trp Gly Ile Lys Thr
              165              170              175
Ile Asn Val Val Arg Glu Arg Arg Thr Pro Glu Glu Thr Asp Ala Leu
              180              185              190
Lys Arg Glu Leu Tyr Asp Leu Gly Ala Asn Ala Val Val Thr Glu Ser
              195              200              205
Glu Leu Leu Ser Gly Glu Phe Lys Ser Met Val Asn Glu Phe Thr Arg
              210              215              220
Gln Gly Lys Glu Pro Ile Arg Leu Ala Leu Asn Cys Val Gly Gly Lys
225              230              235              240
Ser Ala Thr Ala Leu Ala Lys Thr Leu Ala Pro Gly Ser His Leu Val
              245              250              255
Thr Tyr Gly Ala Met Ser Lys Gln Pro Val Thr Leu Pro Ser Gly Leu
              260              265              270
Leu Ile Phe Lys Asn Leu Val Phe Asp Gly Phe Trp Val Ser Arg Trp

```

275 280 285
 Gly Asp Lys His Pro Glu Leu Lys Glu Asn Thr Ile Asn Asp Val Leu
 290 295 300
 Lys Leu Thr Arg Ala Gly Arg Phe Lys Asp Ile Pro Val Glu Tyr Ile
 305 310 315 320
 Arg Trp Thr Trp Glu Thr Glu Ala Ala Glu Leu Val Ala Gly Val Gln
 325 330 335
 Glu Thr Leu Ser Gly Phe Arg Lys Gly Lys Gly Leu Leu Lys Tyr Glu
 340 345 350
 Gly Asp Glu
 355

<210> 30447

<211> 298

<212> PRT

<213> A.fumigatus

<400> 30447

Cys Arg Leu Asp Ala Val Leu Leu Pro Arg Gly Glu Asp His Val Gln
 1 5 10 15
 Lys Ile Asp Arg Lys Lys Leu Gly Ile Asp Val Ser Thr Ile Glu Gln
 20 25 30
 Glu Leu Ser Glu Gln Ala Ala Gly Asp Ala Glu Gln Thr Arg Arg Leu
 35 40 45
 Thr Ala Glu Glu Glu Glu Lys Ile Lys Arg Thr Ala Thr Arg Pro Asp
 50 55 60
 Leu Tyr Glu Leu Leu Ser Arg Ser Leu Ala Pro Ser Ile Tyr Glu Met
 65 70 75 80
 Asp Asp Val Lys Lys Gly Ile Leu Leu Gln Leu Phe Gly Gly Thr Asn
 85 90 95
 Lys Thr Phe Gln Lys Gly Gly Asn Pro Arg Tyr Arg Gly Asp Ile Asn
 100 105 110
 Ile Leu Leu Cys Gly Asp Pro Ser Thr Ser Lys Ser Gln Leu Leu Arg
 115 120 125
 Tyr Val His Lys Ile Ala Pro Arg Gly Val Tyr Thr Ser Gly Lys Gly
 130 135 140
 Ser Ser Ala Val Gly Leu Thr Ala Tyr Val Thr Arg Asp Pro Glu Thr
 145 150 155 160
 Arg Gln Met Val Leu Glu Ser Gly Ala Leu Val Leu Ser Asp Gly Gly
 165 170 175
 Ile Cys Cys Ile Asp Glu Phe Asp Lys Met Asn Glu Ser Thr Arg Ser
 180 185 190
 Val Leu His Glu Val Met Glu Gln Gln Thr Val Ser Ile Ala Lys Ala
 195 200 205
 Gly Ile Ile Thr Thr Leu Asn Ala Arg Thr Ser Ile Leu Ala Ser Ala
 210 215 220
 Asn Pro Ile Gly Ser Arg Tyr Asn Pro Asn Leu Pro Val Pro Gln Asn
 225 230 235 240
 Ile Asp Leu Pro Pro Thr Leu Leu Ser Arg Phe Asp Leu Val Tyr Leu
 245 250 255
 Val Leu Asp Arg Val Asp Glu Gln Glu Asp Arg Arg Leu Ala Lys His
 260 265 270
 Leu Val Asn Met Tyr Leu Glu Asp Arg Pro Glu His Ala Ala Glu Gln
 275 280 285
 Glu Ile Leu Val Ser Ala Phe Leu Thr Thr
 290 295

<210> 30448
 <211> 206
 <212> PRT
 <213> A.fumigatus

<400> 30448
 Pro Val His Ser Leu Gln Pro Ile Glu Phe Leu Thr Ala Tyr Ile Thr
 1 5 10 15
 Tyr Ala Lys Thr Lys Val His Pro Val Leu Thr Pro Ala Ala Gly Lys
 20 25 30
 Ala Leu Ser Asp Ala Tyr Val Asn Met Arg Lys Leu Gly Asp Asp Ile
 35 40 45
 Arg Ser Ser Asp Arg Arg Ile Thr Ala Thr Thr Arg Gln Leu Glu Ser
 50 55 60
 Met Ile Arg Leu Ser Glu Ala His Ala Arg Met Arg Leu Ser Pro Glu
 65 70 75 80
 Val Thr Ala Asp Asp Val Glu Glu Ala Val Arg Leu Ile Arg Ser Ala
 85 90 95
 Ile Lys Gln Ala Ala Thr Asp Ser Arg Thr Gly Leu Ile Asp Met Ser
 100 105 110
 Leu Leu Thr Glu Gly Thr Ser Ala Ser Glu Arg Arg Ser Arg Glu Ala
 115 120 125
 Leu Lys Arg Ala Leu Leu Ser Val Val Asp Asp Leu Cys Ser Gly Gly
 130 135 140
 Gly Ala Ala Arg Trp Ala Glu Val Phe Arg Ile Leu Ser Glu Asn Ser
 145 150 155 160
 Ser Ile Glu Val Asp Gly Ala Gln Phe Ala Asp Ala Val Arg Ala Leu
 165 170 175
 Glu Ala Glu Gly Ala Val Ser Val Val Gly Glu Gly Ala Pro Ala Gly
 180 185 190
 Ile Ser Gly Ala Leu Ala Ala Leu Phe Cys Arg Pro Val Leu
 195 200 205

<210> 30449
 <211> 130
 <212> PRT
 <213> A.fumigatus

<400> 30449
 Pro Asn Lys Leu Tyr Ala Ile Leu Thr Pro Leu Gln Gln Pro Val Tyr
 1 5 10 15
 Tyr Thr Ser Ser Asp Ser Ser Leu Asp Val Trp Thr Ile Ile Ala Ala
 20 25 30
 Thr Ser Glu Asp Ala Thr Val Asp Phe Thr Asp Thr Gly Asp Lys Thr
 35 40 45
 Cys Leu Val Met Gln Met Ser Asp Asn Thr Phe Gln Val Leu Leu Arg
 50 55 60
 Leu Met Leu Tyr Phe Arg Arg Arg Leu Ala Thr Arg Asn Phe Val Tyr
 65 70 75 80
 Leu Tyr Leu Leu Ile Leu Pro Lys Cys Thr Phe Leu Gly His Leu Ile
 85 90 95
 Trp Ile Ala Ile Arg Ala Leu Gln Met Gln Gly Ser Leu Val Ser His
 100 105 110
 Ile Pro Arg Ile Asn Gly Val Val Thr Trp Arg Leu Arg Ser Pro Ile
 115 120 125

Asn Ile
130

<210> 30450
<211> 110
<212> PRT
<213> A.fumigatus

<400> 30450
Thr His Leu Ser Val Ser Met Glu Val Ser Ile Leu Ser Leu Phe Lys
1 5 10 15
Ala Tyr Ala Ala Tyr Val Thr Val Ala Val Val Leu Leu Arg Leu Ile
20 25 30
Thr Asn Arg Phe Arg Arg Gly Leu Ala Gly Ile Pro Gly Pro Thr Ile
35 40 45
Ala Lys Trp Thr Arg Leu Trp Lys Leu His Ser Val Trp Lys Gly Asn
50 55 60
His His Thr Thr Ala Ile Asp Leu His Arg Lys Tyr Gly Pro Leu Val
65 70 75 80
Arg Ile Gly Pro Lys His Val Ser Val Gly Asp Pro Ser Ala Ile Pro
85 90 95
Ile Ile Tyr Gly Leu Asn Lys Gly Phe Thr Lys Val Arg Gly
100 105 110

<210> 30451
<211> 67
<212> PRT
<213> A.fumigatus

<400> 30451
Lys Thr Gly Phe Tyr Pro Ile Gln Cys Ile Ser Trp Asn Lys Arg Pro
1 5 10 15
Gln Met Asn Leu Phe Ser Thr Arg Asp Glu Met Phe His Arg Glu Gln
20 25 30
Lys Arg Pro Val Ala Asn Ala Tyr Ser Met Thr Ser Leu Leu Glu Leu
35 40 45
Glu Pro Ala Val Asp Ser Cys Thr Glu Ile Phe Ile Asn Gln Leu Ala
50 55 60
Lys Val Arg
65

<210> 30452
<211> 113
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (68)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30452
Thr Pro Ala Leu Arg Ser Ser Ser Ile Ser Trp Arg Arg Phe Ala Asn
1 5 10 15
Ser Lys Lys Pro Val Asp Leu Gly Met Trp Leu Gln Tyr Tyr Ala Phe
20 25 30

11560

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Asp Val Val Gly Glu Phe Thr Phe Ala Lys Lys Leu Gly Phe Leu Pro
      35                      40                      45
Glu Gly Lys Asp Val Asp Gly Met Ile Glu Ala Ile Gln Gly Met Leu
      50                      55                      60
Val Tyr Ala Xaa Val Cys Gly Gln Ile Pro Glu Ala His Pro Leu Leu
      65                      70                      75                      80
Leu Gly Asn Pro Leu Phe Pro Ile Phe Met Pro Ser Met Glu Thr Trp
                      85                      90                      95
Asn Gln Val Leu Asn Phe Thr Leu Lys Ala Ile Asn Ser Arg Ala Ser
      100                      105                      110
Leu

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<210> 30453

<211> 256

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (254), (255)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30453

```

Ile Leu Ile Leu Lys Gly Phe Phe Glu Ser Arg Asn Asp Pro Lys Asn
1      5      10      15
Asp Pro Val Val Leu Trp Leu Asn Gly Gly Pro Gly Cys Ser Ser Leu
      20      25      30
Thr Gly Leu Phe Leu Glu Leu Gly Pro Ser Ser Ile Asn Glu Lys Ile
      35      40      45
Lys Pro Ile Tyr Asn Asp Phe Ala Trp Asn Ser Asn Ala Ser Val Ile
      50      55      60
Phe Leu Asp Gln Pro Val Asn Val Gly Tyr Ser Tyr Ser Gly Ala Ala
      65      70      75      80
Val Ser Asp Thr Val Ala Ala Gly Lys Asp Val Tyr Ala Leu Leu Thr
      85      90      95
Leu Phe Phe Lys Gln Phe Pro Glu Tyr Ala Lys Gln Asp Phe His Ile
      100      105      110
Ala Gly Glu Ser Tyr Ala Gly His Tyr Ile Pro Val Phe Ala Ser Glu
      115      120      125
Ile Leu Ser His Lys Lys Arg Asn Ile Asn Leu Lys Ser Val Leu Ile
      130      135      140
Gly Asn Gly Leu Thr Asp Gly Leu Thr Gln Tyr Asp Tyr Tyr Arg Pro
      145      150      155      160
Met Ala Cys Gly Glu Gly Gly Tyr Pro Ala Val Leu Asp Glu Ser Ser
      165      170      175
Cys Gln Ser Met Asp Asn Ala Leu Pro Arg Cys Lys Ser Met Ile Glu
      180      185      190
Ser Cys Tyr Asn Thr Glu Ser Ser Trp Ile Cys Val Pro Ala Ser Ile
      195      200      205
Tyr Cys Asn Asn Ala Leu Leu Gly Pro Tyr Gln Arg Thr Gly Gln Asn
      210      215      220
Val Tyr Asp Ile Arg Gly Lys Cys Glu Asp Ser Ser Asn Leu Cys Tyr
      225      230      235      240
Lys Val Phe Thr Gly Gly Ala Arg Arg Ser Val Gln Ser Xaa Xaa Ala
      245      250      255

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11561

<210> 30454
 <211> 171
 <212> PRT
 <213> A.fumigatus

<400> 30454
 Val Thr Met Arg Val Leu Pro Ala Thr Leu Leu Val Gly Ala Ala Thr
 1 5 10 15
 Ala Ala Ala Pro Pro Phe Gln Gln Ile Leu Gly Leu Pro Lys Lys Ser
 20 25 30
 Ala Asp Thr Leu Ala Lys Pro Leu His Asp Leu Gln Glu Gln Leu Lys
 35 40 45
 Thr Leu Ser Gly Glu Ala Arg His Leu Trp Asp Glu Val Ala Ser His
 50 55 60
 Phe Pro Asn Asn Met Asp His Asn Pro Val Phe Ser Leu Pro Lys Lys
 65 70 75 80
 His Asn Arg Arg Pro Asp Ser His Trp Asp His Ile Val Arg Gly Ala
 85 90 95
 Asp Val Gln Ser Val Trp Val Ala Gly Ala Ser Gly Glu Lys Glu Arg
 100 105 110
 Glu Ile Asp Gly Lys Leu Glu Ala Tyr Asp Leu Arg Val Lys Lys Thr
 115 120 125
 Asp Pro Ser Ala Leu Gly Ile Asp Pro Gly Val Lys Gln Tyr Thr Gly
 130 135 140
 Tyr Leu Asp Asp Asn Glu Asn Asp Lys His Leu Phe Tyr Cys Glu Phe
 145 150 155 160
 Tyr Leu Asp Leu Leu Val Cys Val Ala Glu Tyr
 165 170

<210> 30455
 <211> 119
 <212> PRT
 <213> A.fumigatus

<400> 30455
 Lys Ile Asn Cys Ala Gly Asn Leu Asn Ser Leu Glu Val Glu Leu Pro
 1 5 10 15
 Asn Leu Ser Ser Gly Thr Asn Met Thr Phe Arg Asn Val Ser Ala Val
 20 25 30
 Ser Val Pro Ser Leu His Asn Leu Thr Gly Gln Leu Gly Phe Trp Gly
 35 40 45
 Asp Thr Phe Lys Ser Phe Ser Ala Pro Asn Leu Thr Glu Thr Gly Asp
 50 55 60
 Leu Val Phe Asn Ser Asn Ser Lys Leu Thr Asn Ile Ser Met Pro Ala
 65 70 75 80
 Leu Glu Thr Val Asn Gly Gly Phe Leu Ile Thr Arg Asn Asp Glu Leu
 85 90 95
 Ser Ser Ile Asp Leu Pro Ser Leu Lys Val Val Thr Gly Ala Val Asp
 100 105 110
 Phe Ser Gly Lys Phe Asp Glu
 115

<210> 30456
 <211> 101
 <212> PRT

<213> A.fumigatus

<400> 30456

```

Ser Asn Arg Arg Val Ser Met Pro Lys Leu Glu Asn Val Lys Gly Gln
1          5          10          15
Phe Asn Leu Gln Ser Thr Gly Asn Phe Ser Cys Asp Thr Phe Asp Lys
          20          25          30
Ala His Asn Asp Lys Val Ile Arg Gly Thr Tyr Lys Cys Lys Ala Ala
          35          40          45
Glu Pro Asn Pro Thr Thr Lys Asp Gly Ser Ser Gly Thr Thr Thr Ser
          50          55          60
Ser Gly Ser Ser Ala Ser Ala Ser Lys Ser Asn Ala Ala Asp Leu Asn
65          70          75          80
Ala Ala Asn Leu Pro Ala Leu Gly Phe Ala Ala Val Phe Gly Ala Leu
          85          90          95
Val Gln Tyr Val Leu
          100

```

<210> 30457

<211> 72

<212> PRT

<213> A.fumigatus

<400> 30457

```

Asp Ile Tyr Gln Trp Arg Pro Asp Trp Leu Trp Gly Ile Lys Ser Ile
1          5          10          15
Glu Gln His Trp Lys Ser Leu Ile Trp Trp Pro Phe Thr Leu Ser Leu
          20          25          30
Leu Val Cys Asp Ser Leu Ser Leu Ser Ser His Phe Leu Ser Tyr
          35          40          45
Leu Ser Pro Val Ser Leu Pro Arg Val Pro Pro Arg Arg Thr Phe Leu
          50          55          60
Gly His Phe Ser Lys Asn Cys Leu
65          70

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<210> 30458

<211> 115

<212> PRT

<213> A.fumigatus

<400> 30458

```

Leu Thr Met Ser Leu Cys Leu Asn Arg Leu Thr Glu Glu Arg Tyr Val
1          5          10          15
His Gln Pro Ser Leu Asn Ser Arg Arg Ala Asn Thr Ser Thr Thr Pro
          20          25          30
Gln Pro Thr Thr Thr Gln Glu Arg Leu Thr Thr Pro Thr Arg Arg Lys
          35          40          45
Gln Trp Arg Arg Asp His Pro Phe Gly Phe Tyr Ala Lys Pro His Arg
          50          55          60
Thr Pro Gln Gly Val Leu Asp Leu Lys Arg Trp Glu Cys Gly Ile Pro
65          70          75          80
Gly Lys Ala Asn Thr Leu Trp Glu Gly Gly Leu Phe Lys Leu Asp Val
          85          90          95
Val Phe Pro Asp Gly Lys Pro Ala Cys Ala Cys Gly Arg Asp Arg Ser
          100          105          110
Val Leu Val

```


115

<210> 30459
 <211> 91
 <212> PRT
 <213> A.fumigatus

<400> 30459
 Thr Asp Val Ala Asn Asp Thr Gly Lys Phe Val Pro Pro Leu Phe His
 1 5 10 15
 Pro Asn Val Tyr Pro Ser Gly Thr Val Cys Leu Ser Ile Leu Asn Glu
 20 25 30
 Glu Glu Ala Trp Lys Pro Ala Ile Thr Ile Lys Gln Ile Leu Leu Gly
 35 40 45
 Ile Gln Asp Leu Leu Asp Asp Pro Asn Pro Glu Ser Pro Ala Gln Ala
 50 55 60
 Glu Ala Tyr Asn Leu Phe Lys Lys Asp Arg Pro Ala Tyr Glu Arg Arg
 65 70 75 80
 Val Arg Gln Val Val Lys Glu Asn Pro Ala Leu
 85 90

<210> 30460
 <211> 131
 <212> PRT
 <213> A.fumigatus

<400> 30460
 Val Gly Glu His Gly Pro Ser Ser Gly Val Leu Lys Thr Gly Ser Arg
 1 5 10 15
 Arg Tyr Leu Ala Tyr Leu Leu Gln Phe Arg Leu Val Tyr Ser Ser Ser
 20 25 30
 Ile Ser Leu Ala His Val Ala Met Glu Ser Leu Thr Thr His Pro Ser
 35 40 45
 Thr Ala Gln Gln Ala Arg Ala Phe Thr Ser Pro Ala Ser Leu Ser Phe
 50 55 60
 Pro Gly Gly Ala Gly Asp Leu Thr Pro Pro Ser Ser Glu Lys Glu Gly
 65 70 75 80
 Asn Ile Thr Ile Gly Ala Gln Gly Ala Asn Gly Thr Val Asn Gly His
 85 90 95
 Gln Gln Gly Gly Asn Ala Val Asn Gly Asn Gly Val Thr Pro Ala Thr
 100 105 110
 Pro Ala Ala Thr Pro Gly Ala Asn Ala Pro Gly Ser Gly Ile Val Pro
 115 120 125
 Thr Leu Gln
 130

<210> 30461
 <211> 157
 <212> PRT
 <213> A.fumigatus

<400> 30461
 Ser Cys Val Ser Gly Asn Pro Lys Thr Thr Ala Leu Ile Phe Ala Ser
 1 5 10 15
 Gly Lys Met Val Val Thr Gly Ala Lys Ser Glu Asp Asp Ser Lys Leu
 20 25 30

11564

Ala Ser Arg Lys Tyr Ala Arg Ile Ile Gln Lys Leu Gly Phe Asn Ala
 35 40 45
 Lys Phe Thr Asp Phe Lys Ile Gln Asn Ile Val Gly Ser Trp Asp Ile
 50 55 60
 Lys Phe Pro Ile Arg Leu Glu Gly Leu Ala Ser Arg His His Asn Phe
 65 70 75 80
 Ser Ser Tyr Glu Pro Glu Leu Phe Pro Gly Leu Ile Tyr Arg Met Met
 85 90 95
 Lys Pro Lys Ile Val Leu Leu Ile Phe Val Ser Gly Lys Ile Val Leu
 100 105 110
 Thr Gly Ala Lys Val Arg Glu Glu Ile Tyr Gln Ala Phe Glu Leu Ile
 115 120 125
 Tyr Pro Val Leu Ser Gly Thr Val Ile Leu Phe Phe Gly Phe Lys Ser
 130 135 140
 Asn Tyr Met Leu Thr Ile Arg Ser Asp Phe Arg Lys Val
 145 150 155

<210> 30462

<211> 129

<212> PRT

<213> A.fumigatus

<400> 30462

Val Arg His Asn Pro Arg Val Leu Val His Arg His Val Arg Asn His
 1 5 10 15
 Phe Leu Tyr Pro Leu Gln Asn Asn Val Ala Ala Asn Thr Arg Thr Leu
 20 25 30
 Tyr Ser Arg Pro Thr Gly Asp Phe Ile Val Asp Tyr His Pro Asp Tyr
 35 40 45
 Ala Gly Leu Phe Leu Ala Thr Gly Gly Ser Gly His Ala Tyr Lys Phe
 50 55 60
 Phe Pro Val Leu Gly Asp Lys Val Val Asp Ala Ile Glu Gly Lys Leu
 65 70 75 80
 Glu Pro Glu Leu Arg Asn Leu Trp Lys Trp Pro Val Lys Val Asp Gln
 85 90 95
 Ser Ala Phe Glu Gly Asp Gly Ser Arg Ser Gly Glu Gln Gly Leu Leu
 100 105 110
 Leu Met Glu Glu Leu Ala Lys Ser Thr Lys Ala Gln Arg Lys Ser Val
 115 120 125
 Leu

<210> 30463

<211> 75

<212> PRT

<213> A.fumigatus

<400> 30463

Phe Val Cys Gly Arg Ala Arg Glu Thr Thr Thr Ala Ser Thr Asn Pro
 1 5 10 15
 Lys Ala Val Pro Ile Pro Gly Gly Asn Gly Val Thr Met Gln Val Ser
 20 25 30
 Leu Pro Glu Asn Asp Val Pro Val Pro Leu Glu Gly Gln Glu Ala Phe
 35 40 45
 Arg Thr Ala Leu Lys Glu Leu Leu Pro Ser Phe Ala Glu Arg Glu Phe
 50 55 60

11565

Val Thr Thr Arg Val Cys Trp Tyr Thr Asp Thr
65 70 75

<210> 30464
<211> 259
<212> PRT
<213> A.fumigatus

<400> 30464
Thr Thr Leu Thr Arg Ile Gly Ile Tyr Pro Thr Thr Lys Gly Ala Asn
1 5 10 15
Asp Cys Gly Pro Ile Trp Ser Cys Leu Leu Gln Arg Gly Met Gly Phe
20 25 30
Asn Gln Leu Asp Val Pro Asn Arg Tyr Val Leu Thr Asn Ile Leu Glu
35 40 45
Arg Ala Tyr Ala Leu Gln Arg Arg His Pro Ile Thr Phe Trp Gly Arg
50 55 60
Pro Gly Phe Thr Met Arg Ser Val His Asp Phe Ile His Asn Ala Thr
65 70 75 80
His Ser Val Val Ser Gly Ile Ile Val His Asn Glu Lys Asp Ala Glu
85 90 95
Gly Met Leu Gly Leu Ala Arg Leu Met Glu Leu Phe Asp Ala Ile Asp
100 105 110
Glu Glu Val Val Asp Cys Trp Asn Gln Arg Cys Asn Val Asn Ser Gly
115 120 125
Tyr Cys Asn Asn Leu Thr Glu Glu Lys Ala Leu Ser Ile His Gln Asn
130 135 140
Leu Arg Arg Val Cys Glu Ser Glu Arg Tyr Lys Gly Tyr Asp Trp Phe
145 150 155 160
Glu Arg Thr Lys Ser Val Pro Gly Glu Val Gln Ser Val Gln Pro Thr
165 170 175
Ile Ser Met Arg Glu Thr Gln Cys Ala Asp Val Phe Ile Thr Lys Lys
180 185 190
Trp Leu Gln Asn Arg Val Trp Val Leu Cys Ser Thr His Gly Leu Leu
195 200 205
Arg Pro Val Ser Asp His Pro Glu Leu Ser Phe Glu Tyr Thr Ile Thr
210 215 220
Val Ala Val Asp Ala Leu Lys Ile Cys Gln Ser Leu Arg Leu Ser Ser
225 230 235 240
Met Glu Ala His Gly Ile Gly Leu Val Ser Thr Val His Pro Asn Lys
245 250 255
Asn Leu Phe

<210> 30465
<211> 125
<212> PRT
<213> A.fumigatus

<400> 30465
Val Gln Ser Ile Arg Thr Lys Thr Tyr Phe Asn Phe Ser Arg Tyr Ser
1 5 10 15
Arg Ala Arg Ala Gln Val Glu Lys Leu Tyr Asp Ile Ala Val Ser Ala
20 25 30
Ile Gly Ile Ser Ala Asn Val Arg Gln Pro Leu Gly Glu His Ser Thr
35 40 45

11566

Ala Ser Val Ala Gly Ser Met Ala Gly Pro Gly Val Ala Pro Pro Gly
 50 55 60
 Ser Leu Val Gly Ala Met Ser Pro Asn Thr Ala Ala Val His Ser Thr
 65 70 75 80
 Gln Ser Leu Ala Glu Asp Phe Met Leu Leu Leu Asn Thr Leu Arg Gly
 85 90 95
 Gly Asn His Pro Phe Met Glu Lys Phe Lys Ala Tyr Leu Ser Ser Leu
 100 105 110
 His Ile Val Gly Val Gly Cys Ser Asn Trp Ala Gln Thr
 115 120 125

<210> 30466

<211> 416

<212> PRT

<213> A.fumigatus

<400> 30466

Leu Asn Gln Leu Arg Gly Tyr Leu Cys Ser Asp Val Leu Phe Glu Asn
 1 5 10 15
 Pro Ser Ile Ser Asn His Leu Arg Ile Phe Arg Cys Ser Pro Asn Ser
 20 25 30
 Arg Val Ser Gln Ile Arg Gln Gln Gln Gln Thr Gln Leu Leu Arg Lys
 35 40 45
 Ser Ser Gln Ser Ser Leu Ser Asp Ala Tyr Pro Tyr Gln Arg Pro Ile
 50 55 60
 Thr Ser Arg Glu Thr Gly Gln His Gly Val Ala Pro Ser Val Gln Asp
 65 70 75 80
 Pro Thr Gln Trp Pro Ile Pro Gln Arg Gly Glu Ala Ser Val Ser Thr
 85 90 95
 Asp Val Val Pro Pro Arg Ser Asn Thr Ser Ile Gly Pro Ser Trp Pro
 100 105 110
 Ala Thr Asp Thr Ser Ser Val Asp Ser Gln Thr Asn Ser Ala Ile Ser
 115 120 125
 Trp Asn Glu Arg Ser Asp Val Glu Tyr Trp Leu Pro Asp Asn Leu Asp
 130 135 140
 Ala Gln Val Pro Val Phe Glu Phe Pro Gly Ser Asn Ile Tyr Leu Lys
 145 150 155 160
 Ala Ser Leu Pro Ser Ile Ile Gln Pro Glu Gln Glu Ala Ala Gly Leu
 165 170 175
 Gln Pro His His Val Asp Thr Ser Asn Leu Ala Leu Ser Thr Met Gly
 180 185 190
 Val Met Pro Ala Gly Pro Val Pro Thr Arg Thr Thr Trp Pro Ala Ser
 195 200 205
 Ile Val Glu Ala Asn Met Ile Pro Trp Ile Glu Val Tyr Phe Asp Arg
 210 215 220
 Leu His Pro Thr Leu Pro Val Leu Asn Arg Ser Ser Leu Phe Ile Arg
 225 230 235 240
 Met Leu Ala Gln Glu His Arg Arg Asn Pro Gln Phe Gly Ala Met Leu
 245 250 255
 Leu Ser Leu Cys Ala Phe Ser Leu Thr Gln Pro Ile Glu Ile Asp Glu
 260 265 270
 Arg Pro Thr Ser Ser Ser Arg Ala Ser Gln Ala Arg Ser Met Met Asn
 275 280 285
 Glu Ala Thr Lys Met Arg Ser Cys Ser Asp Phe Gly Glu His Pro Thr
 290 295 300
 Ile Glu Ala Val Leu Thr Ser Phe Phe Leu Phe Gly Cys Leu Phe Gly

11567

305		310		315		320
Ser Asn Gln His	Asn Ala Ala Trp Leu Arg Leu Arg Glu Ala Leu Asp					
	325		330		335	
Leu Ala Ala Thr	Leu Gly Leu Asn Asn Pro Asp Ser Tyr Arg Asp Ile					
	340		345		350	
Pro Asn Asp Glu	Arg Gly Gln Arg Leu Arg Thr Tyr Leu Val Leu Ser					
	355		360		365	
Ile Thr Glu Arg	Tyr Gly Ile Gln Pro Thr Arg Cys Ala Lys Ser Ile					
	370		375		380	
Cys Ala Asp Lys	His Pro Arg Lys Ser Leu Cys Pro Ala Thr Ala Thr					
	385		390		395	
Ser His His Phe	Leu Gly Glu Thr Gly Val His His Ala Phe Cys Pro					
	405		410		415	

<210> 30467

<211> 124

<212> PRT

<213> A.fumigatus

<400> 30467

Ala Val Leu Arg	His Pro Pro Gly Ser Gln Ser Ala Ile Leu Leu Ala					
1	5		10		15	
Gln Trp Leu Gly	Gln Ser Asp Ser Asp Ala Thr Ala Ala Met Ile Asn					
	20		25		30	
Ser Gly Pro Ala	Thr Met Thr Asp Trp Met Leu Leu Ala Met Ser Gln					
	35		40		45	
Met Asn Gly Glu	Ser Gln Ala Asn Lys Val Gly Gln Ala Phe Ala Gln					
	50		55		60	
Lys Leu Leu Glu	Ile Gly Asp Ile His Thr Ser Ala Thr Val Leu Leu					
	65		70		75	
Gly Leu Gly Asp	Lys Asn Glu Ala Ile Glu Val Tyr Val Ser Gln Asn					
	85		90		95	
Cys Tyr Met Glu	Ala Ile Leu Met Thr Cys Leu Leu Thr Pro Thr Asp					
	100		105		110	
Trp Gln Arg Gln	Ser Tyr Leu Val Arg Arg Trp Gly					
	115		120			

<210> 30468

<211> 290

<212> PRT

<213> A.fumigatus

<400> 30468

Val Leu Phe His	Pro Met Thr Arg Leu Lys Leu Asn Pro His Arg Pro					
1	5		10		15	
Phe Arg Lys Thr	Trp Ser Trp Asp Val Arg Thr Lys His Val Thr Tyr					
	20		25		30	
Glu Pro Ile Pro	Thr Ile Glu Asn Pro Arg Gly Phe Ala Asn Tyr Gly					
	35		40		45	
Pro Thr Ala Thr	Leu Phe Thr Leu Gly Pro Asn Tyr Thr Val Gln Gln					
	50		55		60	
Tyr Asp Leu Asp	Asn Pro Ser Met Val Ala Asn Val Gln His Ile Pro					
	65		70		75	
Ala Gly Ala Leu	Thr Ala Thr Pro Glu Glu Pro Arg Gly Gly Ser Val					
	85		90		95	
Asp Ser Arg Ala	Leu Gln Asp Pro Pro Asp Leu Arg Glu Ser Ala Arg					

11569

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145          150          155          160
Gln Ser Leu Asn Asn Ala Met Asn Ala Arg Thr Gly Thr Pro Ala Phe
          165          170          175
Asn Arg Ser Arg Leu Pro Ser Ile Gly Glu Thr Pro Val Asp Val His
          180          185          190
Pro Pro Ala Phe Leu Ser Ser Gly Leu Asn Asn Ser Val Glu Tyr Ala
          195          200          205
Ser Ser Val Glu Ser Thr Ser Arg Leu His Glu Gly Ser Gln Ser Gln
          210          215          220
Asp Glu Glu Val Leu Ser Ser Leu Leu Pro Ser Ala Arg Tyr Asn Pro
225          230          235          240
Glu Lys Asp Thr Phe Lys Pro Ser Pro Gln Thr Ala Val Gln Ala Asn
          245          250          255
Ser Asp Lys Phe Ala Thr Ile Lys Val Leu Pro Pro Pro Ser Pro Gly
          260          265          270
Val Phe Glu Ala Leu Lys Glu Arg Ser Asp Ser Arg Asn Gly Ser Arg
          275          280          285
Asp Arg Lys Pro Gly Val Leu Gln Leu His Leu Phe Glu Pro Gly Ala
          290          295          300
Ser Glu Ser Asp Leu Leu Gly Pro Pro Ser Ser Thr Met Ser Asn Ile
305          310          315          320
Arg Ser Pro Ala Ser Thr Leu Asn Ser Tyr Asn Ser Ala Lys Ser Pro
          325          330          335
Ser Val Ser Gly Arg Ser Ile Asp Gln Tyr Ile Ser Ser Leu Ala Glu
          340          345          350
Ala Asn Tyr Arg Ser Gln Lys Leu Ser Arg Gly Arg Arg Asn Thr Asp
          355          360          365
Asp Ser Val Ser Gln Ser Ser Ala Arg Lys Ile Thr Ser Arg Asn Thr
          370          375          380
Ser Gln Glu Thr Thr Arg Gly Arg Asn Glu Arg Arg Tyr Ile Gln Pro
385          390          395          400
Ala Lys Arg Ser Pro Ser Ser Pro Val Pro Met Ser Pro Glu Glu Ile
          405          410          415
Ala Arg Tyr Ser Lys Gly Thr Gly Thr Lys His Pro Ala Ser Lys Ser
          420          425          430
Arg Asn Ser Ser Arg Val Arg Lys Pro Arg Ser Arg His Ser Ser Glu
          435          440          445
Arg Arg Arg His Arg Ser Val Phe Ala Thr Gly Trp Lys Ile Arg Val
          450          455          460

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<210> 30470

<211> 79

<212> PRT

<213> A.fumigatus

<400> 30470

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Ser Val Gly Leu Asn Cys Thr Ser Phe Arg Ser Arg Asp Pro Ala Arg
1          5          10          15
Glu Leu Phe Thr Asp Asp Met Glu Thr Glu Glu Ala Tyr Val Tyr Glu
          20          25          30
Ala Pro Asp Cys Cys Gly Val Ser Leu Pro Leu Ala Glu Ala Ser Glu
          35          40          45
Asn Asp Val Ala Val Cys Pro Asp Leu Leu Gly Ala Glu Asn Gly Thr
          50          55          60
Ile Leu Tyr Phe Pro Glu Asp Ala Phe Glu Leu Thr Glu Leu Ala
65          70          75

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<210> 30471
 <211> 158
 <212> PRT
 <213> A.fumigatus

<400> 30471
 Ser Ser Ser Glu Glu Asn Ser Pro Leu Met Ser Ser Ser Ser Asn Pro
 1 5 10 15
 Ser Ser Glu Ser Ser Ser Leu Pro Ser Val Ser Ser Asp Pro Ser Val
 20 25 30
 Ser Met Pro Ser Pro Ser Phe Ser Ser Glu Glu Thr Cys Asp Ser Phe
 35 40 45
 Leu Cys Arg Leu Leu Ser Phe Ala Glu Val Leu Asp Leu Cys Gly Arg
 50 55 60
 Ser Ser Ser Leu Ser Ser Asp Ala Ser Ser Ser Ser Ser Leu Pro Ser
 65 70 75 80
 Ser Glu Ser Ser Ser Ser Ser Ser Ser Leu Ser Ser Ser Ser Ser Leu
 85 90 95
 Glu Arg Gly Leu Asn Arg Ser Ser Ser Leu Ser Ala Ser Ser Ala Ser
 100 105 110
 Arg Leu Ile Phe Glu Pro Ala Tyr Cys Phe Pro Arg Leu Ile Gly Ser
 115 120 125
 Cys Leu Arg Ser Leu Ala Phe Leu Phe Glu Val Asn Asn Leu Ile Leu
 130 135 140
 Met Ile Thr Asn Arg Gln Lys Val Cys Thr His Pro Thr Ala
 145 150 155

<210> 30472
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 30472
 Cys Leu Gln Gly Leu Pro Arg Ser Gly Thr Pro Pro Ser Phe Pro Arg
 1 5 10 15
 Arg Arg Gly Leu Pro Glu Lys Arg Lys Ile Arg Asp Val Lys Lys Val
 20 25 30
 Ile Ala Val Ser Ser Ala Lys Gly Gly Val Gly Lys Ser Thr Ile Ala
 35 40 45
 Gly Met Lys Leu Leu Ser Trp Met Pro Ser Glu Tyr Leu Ile
 50 55 60

<210> 30473
 <211> 240
 <212> PRT
 <213> A.fumigatus

<400> 30473
 Asp Thr Cys Cys Trp Ala Gln Glu Leu Met Asp Val Leu Asp Asn Cys
 1 5 10 15
 Leu Val Pro Leu Thr Asn Tyr Gly Leu Lys Ser Met Ser Met Gly Tyr
 20 25 30
 Leu Leu Pro Gln Pro Lys Pro Asp Pro Ser Gln Pro Thr Gly Asn Ile
 35 40 45
 Pro Met Asp Thr Thr Pro Ile Ser Trp Arg Gly Leu Met Val Thr Lys

11571

50 55 60
 Ala Met His Gln Leu Leu His Ser Val Ser Trp Gly Pro Leu Asp Val
 65 70 75 80
 Leu Val Leu Asp Leu Pro Pro Gly Thr Gly Asp Val Gln Leu Thr Ile
 85 90 95
 Gly Gln Glu Leu Ile Val Asp Gly Ala Val Ile Val Thr Thr Pro Gln
 100 105 110
 Asp Ile Ala Leu Arg Asp Ala Val Arg Gly Phe Gly Met Phe Glu Lys
 115 120 125
 Met Asn Ile Pro Val Leu Gly Met Val Arg Asn Met Ala Tyr Phe Ala
 130 135 140
 Cys Pro Gln Cys Gly His Gln Thr Lys Ile Phe Ser His Gly Glu Ser
 145 150 155 160
 His Gly His Gly Ser Ala Asp Ser Asp Ser Gly Val Val Ala Glu Cys
 165 170 175
 Lys Arg Leu Gly Val Glu Phe Leu Gly Asp Ile Pro Leu Asp Ala Lys
 180 185 190
 Val Cys Glu Asp Ala Asp Arg Gly Val Pro Thr Val Val Ser Glu Glu
 195 200 205
 Ser Asp Asp Arg Ser Val Arg Arg Lys Ala Phe Leu Asp Val Ala His
 210 215 220
 Arg Ile Ala Gln Lys Met Gly Trp Asn Gly Gly Thr Asn Thr Thr Met
 225 230 235 240

<210> 30474

<211> 178

<212> PRT

<213> A.fumigatus

<400> 30474

Arg Phe Val Ile Ile Arg Ile Arg Leu Leu Thr Ser Asn Arg Lys Ala
 1 5 10 15
 Arg Leu Arg Arg Gln Asp Pro Ile Asn Leu Gly Lys Gln Tyr Ala Gly
 20 25 30
 Ser Lys Ile Ser Arg Glu Ala Leu Glu Ala Glu Ser Asp Asp Asp Leu
 35 40 45
 Phe Arg Pro Arg Ser Ser Asp Glu Glu Glu Asp Ser Glu Asp Glu Glu
 50 55 60
 Glu Glu Asp Ser Glu Leu Gly Ser Asp Glu Asp Glu Asp Ala Ser Glu
 65 70 75 80
 Glu Ser Glu Glu Glu Arg Pro Gln Arg Ser Arg Thr Ser Ala Lys Asp
 85 90 95
 Ser Lys Arg Gln Arg Lys Glu Ser Gln Val Ser Ser Asp Glu Lys Asp
 100 105 110
 Gly Glu Gly Met Asp Thr Asp Gly Ser Glu Glu Thr Glu Gly Ser Glu
 115 120 125
 Asp Asp Ser Glu Asp Gly Phe Asp Glu Asp Asp Met Ser Gly Glu Phe
 130 135 140
 Ser Ser Asp Asp Asp Gln Glu Gly Asp Glu Asp Gly Asp Asp Asp Glu
 145 150 155 160
 Asp Glu Asp Glu Glu Thr Gly Leu His His Gly Ala Gly Arg Val Arg
 165 170 175
 Ala Ser

<210> 30475

<211> 214
 <212> PRT
 <213> A.fumigatus

<400> 30475

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Asp Ser Ile His Gln Leu Asn Arg Leu Tyr Pro His Lys Pro Phe Arg
1           5           10           15
Ser Ile Arg Ser Thr Pro Lys Ser Arg Arg Glu Lys Arg Leu Pro Gln
          20           25           30
Val Ala Asp Cys Ile Gly Asn Gly Ala Asp Ser Ala Ala Thr Trp Leu
          35           40           45
Glu Ala Lys Ala Ala Pro Thr Gly Gln Met Cys Gly Ser Val Ala Thr
          50           55           60
Thr Leu Trp Asn Tyr Leu Lys Ala Asp Asp Tyr Ala Ala Val Lys Asn
65           70           75           80
Leu Ala Trp Thr Ala Gly Ser Gly Ile Ala Leu Asn Val Ile Gly Asn
          85           90           95
Ile Pro Asn Tyr Tyr Ile Asn Ala Leu Leu Ala Lys Gln Ser Ala Ser
          100          105          110
Gly Glu Pro Ser Asp Ala Cys Gly Gln Asn Asn Asp Ser Thr Tyr Ala
          115          120          125
Ser Asp Ala Ala Ser Ser Val Tyr Glu Phe Cys Leu Ser Ile Gln Thr
          130          135          140
Glu Lys Met Glu Asn Thr Ala Thr Arg Phe Asp Ala Met Asp Ser Arg
145          150          155          160
Ser Ser Ser Thr Trp Pro Ala Gly Val Gln Gly Met Ala Lys Tyr Phe
          165          170          175
Ile Ser Gln Gln Ala Glu Thr Trp Ala Pro Ile Cys Ala Ala Tyr Gly
          180          185          190
Ile Thr Trp Lys Arg Asp Met Leu Leu Arg Phe Lys Thr Leu Thr Ala
          195          200          205
Ser Trp Phe Ala Pro Trp
          210

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<210> 30476

<211> 131
 <212> PRT
 <213> A.fumigatus

<400> 30476

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Glu Val Lys Leu Leu Gln Ile Leu Ser Lys Val Tyr Lys Ser Ser Ser
1           5           10           15
Lys Pro Pro Val Lys Asn Leu Ser Phe Phe Leu Ala Asp Met Arg Pro
          20           25           30
Gln Leu Leu Leu Ile Tyr Ala Val Leu Ala Gly Ala Glu Thr Thr Ala
          35           40           45
Thr Val Asp Gln Ser Pro Gln Glu His Phe Gly Leu His Ser Gln Phe
          50           55           60
Ile Asp Lys Leu Gly Ala Thr Tyr Asn Val Phe Val Lys Asp Phe His
65           70           75           80
Gly Thr His Lys Ile Gln Tyr Ile Asn Ser Thr Asp Phe Ile Pro Thr
          85           90           95
Ser His Phe Val Arg Phe Asp Gln His Pro Asn Leu Asp Glu Arg Asn
          100          105          110
Val Cys Arg Lys Ser Leu Ile Ala Leu Val Thr Ala Arg Thr Val Arg
          115          120          125

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Arg Leu Gly
130

<210> 30477

<211> 884

<212> PRT

<213> A.fumigatus

<400> 30477

Pro	Arg	Val	Arg	Phe	Glu	Asn	Glu	Gly	Ala	Arg	Pro	Gly	Val	Trp	Pro
1				5					10					15	
Leu	Asp	Gly	Ser	Gly	Ile	Leu	Pro	Glu	Asn	Lys	Phe	Val	Gly	Ile	Thr
		20						25					30		
Lys	Glu	Val	Pro	Glu	Pro	Met	Ala	Val	Arg	Phe	Cys	Leu	Thr	Asn	Leu
		35					40					45			
Asn	Ser	Gly	Gly	Glu	Ser	Gly	Glu	Ile	Pro	Thr	Gly	Ala	Val	Val	Gly
	50					55					60				
Leu	Val	Leu	Thr	Ile	Met	Phe	Arg	Thr	Ser	Arg	Val	Val	Ser	Gly	Ile
65				70						75					80
Arg	Trp	His	Leu	Asn	Glu	Phe	Thr	Gly	Arg	Asn	Met	Ile	Glu	Glu	Gly
				85					90					95	
Gly	Asn	Pro	Leu	Thr	Leu	Lys	Val	His	Phe	Asp	Asn	Ser	Ala	Gly	Asn
		100						105					110		
Gln	His	Arg	Gly	Phe	Leu	Asp	Cys	Ala	Leu	Ser	Glu	Thr	Gln	Gln	Trp
	115						120					125			
Phe	Met	Glu	Glu	Glu	Ser	Ala	Ala	Cys	Pro	Tyr	Cys	Arg	Ser	Gln	Val
	130					135					140				
Pro	Glu	Glu	Ser	Asp	Ala	Gly	Trp	Leu	Pro	Ser	Arg	Thr	Ser	Arg	Pro
145				150						155					160
Arg	Pro	Arg	Arg	His	Pro	Gln	Lys	Arg	Gly	Leu	Thr	Ser	Ser	Lys	Arg
				165					170					175	
Ala	Arg	Gly	Asn	Met	Pro	Asp	Thr	Gln	Glu	Ser	Pro	Ile	Phe	Pro	Met
		180						185					190		
Arg	His	Ser	Thr	Arg	Lys	Ile	Tyr	Ala	His	Ala	Arg	Thr	Ser	Val	Asp
	195						200					205			
Trp	Asp	Glu	Asp	Leu	Arg	Pro	Ser	Asp	Glu	Pro	Glu	Lys	Leu	Glu	Ser
	210					215					220				
Gln	Lys	Ser	Ile	Gly	Val	Thr	Ser	Ile	Ser	Ser	Pro	Phe	Pro	Gly	Glu
225				230							235				240
Asn	Phe	Ile	Phe	Gly	Gln	Thr	Ser	Ser	Thr	Gly	Thr	Lys	Arg	Lys	Ser
			245						250					255	
Lys	Arg	Lys	Thr	Ser	Phe	Cys	Lys	Arg	Arg	Lys	Thr	Ser	Arg	Lys	Thr
		260						265					270		
Gly	Arg	Asp	Thr	Gly	Lys	Gly	Arg	His	Glu	Ile	Glu	Glu	Ser	Gly	Leu
	275					280						285			
Gly	Gln	Glu	Ser	Asp	Leu	Lys	Gly	Thr	Val	Asp	Ala	Thr	Tyr	Met	Pro
	290					295					300				
Glu	Val	Asn	Ala	Gln	Ser	Glu	Thr	Ser	Lys	Gly	Ser	His	Thr	Lys	Ala
305				310						315					320
Asp	Arg	Ala	Ser	Met	Asp	Asp	Ser	Asp	Glu	Glu	Cys	Pro	Pro	Arg	Gln
			325						330					335	
Leu	Glu	Ser	Leu	Thr	Asp	Glu	Ala	Pro	Glu	Ala	Ala	Leu	Val	Ala	Val
		340						345					350		
Met	Glu	Val	Ser	Gly	Val	Glu	Gln	Ser	Val	Ala	Phe	Leu	Met	Asp	Gln
	355					360						365			
Ala	Gln	Glu	Ile	Gly	Cys	Pro	Leu	Ile	Phe	Glu	Ser	Ser	Arg	Gly	Thr

370		375		380
Gly Asp Gln His Ala Ser Gln Arg Ser Asn Pro Gln Ile Gln Met Pro				
385		390		400
Ser Ser Asn Tyr Glu Gly Asp Ile Ile Ser Tyr Pro Asp Phe Glu Glu				
	405		410	415
Gly Glu Leu Gly Gly Arg Gly Ala Val Val Gly Lys Lys Leu Ala Ser				
	420		425	430
Ala Phe His Pro Asp Cys Thr Phe Tyr Leu Gln Gly Glu Glu Lys Glu				
	435		440	445
Asp Asp Asn Thr Ile Arg Asp Gly Val Thr Gly Ser Val Asp Lys Glu				
	450		455	460
Asp Asp Glu Ser His Ala Met Ser Ala Ser Ala Leu Gln His Asn Asp				
465		470		480
Phe Glu Thr Arg Ala Val Lys Val Gln Ser Gln Ala Ala Met Gly Ser				
	485		490	495
Arg Thr Asn Arg Thr Thr His Leu Ser Pro Asp Ser Ala Gln Ala Val				
	500		505	510
Ala Glu Lys Gln Thr Ser Arg Glu Tyr Pro Gly Ser Ile Gln Gln Ile				
	515		520	525
Ser Ser Thr Arg Leu Thr Arg Arg Lys Ser Arg Val Val Gln Thr Glu				
	530		535	540
Lys Asn Asn Ala Ser Arg Lys Lys Lys Ala Gln Thr Lys Pro Ser Thr				
545		550		560
Val Ala Ser Ser Glu Lys Glu Asn Gln Ala Asp Glu Ile Glu Cys Gln				
	565		570	575
Ser Gln Glu Ile Cys Gly Leu Gly Gln Arg Lys Pro Gly Leu Tyr Ala				
	580		585	590
Leu Lys Lys Pro Gly His Gly Asn Arg Arg Ala Gln Thr Ser Thr Arg				
	595		600	605
Glu Arg Glu Arg Val Thr Ser Gly Tyr His Ser Leu Lys Leu Ile His				
	610		615	620
Arg Ile Gln Lys Pro Glu Glu Gly Asn Ser Ser Asp Ser Asp Asn Pro				
625		630		640
Lys Ile Leu Ser Arg Thr Lys Thr Ile Pro Arg Leu Thr Pro Arg Lys				
	645		650	655
Ala Ile Val Asp Asn Asn Gly Ser Pro Arg Leu Val Ser Arg His Ile				
	660		665	670
Ala Gly Ser Gln Cys Ser Thr His Ala Asn Leu Asn Phe Thr Gln Arg				
	675		680	685
Ser Gly Lys Leu Met Arg Ala Gly Met Asn Leu Val Ser Gln Arg Ser				
	690		695	700
Ser Glu Ser Gly Tyr Glu Ala Asp Phe Asp Glu Gln Leu Glu Gln Ile				
705		710		720
Pro Leu Glu Thr His Glu Ile Ser Ser Phe Arg Thr Lys Met Asp Ala				
	725		730	735
His Arg Asp Lys Tyr Val His Arg Asn Cys Glu Thr Ala Thr His Glu				
	740		745	750
Glu Leu Ser Glu Asn Pro Val Thr Gly Cys Arg Glu Gly Leu Val Ala				
	755		760	765
Ser Lys Val Val Thr Ala Ser Gly Lys Glu Phe Met Met Arg Phe Ser				
	770		775	780
Thr Lys Pro Pro Lys Lys Ser Pro Arg Arg Leu Asp Arg Ser Asn Ala				
785		790		800
Glu Gly Asp Gly Pro Thr Gln Leu Ser Ser Lys Lys Glu Gly Cys Phe				
	805		810	815
Ile Asp Ser Ser Cys Asp Pro Thr Glu Met Ser Pro Arg Ser Glu Glu				

11575

820 825 830
 Leu Pro Arg Gln Ala Asp Leu Val Ser Ser Leu Gln Ser Leu Tyr Glu
 835 840 845
 Ser Ala His Asp Met Leu Leu Ile Thr Asn Glu Val Cys Gln Cys His
 850 855 860
 Tyr Thr Ile His Tyr Asp Arg Val Leu Leu Met Gln Arg Lys Ala Pro
 865 870 875 880
 Ile Ala Arg Thr

<210> 30478
 <211> 65
 <212> PRT
 <213> A.fumigatus

<400> 30478
 Asn Trp Ser Thr Thr Leu Thr Ser Cys Asn Ser Ser Ser Ile Phe Ile
 1 5 10 15
 Asn Ser Asp Met Thr Ser His Thr Trp Asn Pro Ser His Met Leu Asp
 20 25 30
 Val Ser Ala Ile Tyr Leu His Cys Thr Ser Lys Ser Leu Gly Pro Val
 35 40 45
 Leu Ala Glu Met Arg Leu Ser Pro Gly Gly Ala Leu Leu Thr Ile Pro
 50 55 60
 Pro
 65

<210> 30479
 <211> 93
 <212> PRT
 <213> A.fumigatus

<400> 30479
 Ser Ala Ile Gly Ile Asn Ile Leu Pro Leu Gln Pro Thr Leu Phe Thr
 1 5 10 15
 Leu Thr Ser Pro Ser Phe Ser Ser Ile Cys His Leu Ser Ile Asp Ser
 20 25 30
 Ser Asp Met Phe Ser Ser Leu Leu Asn Arg Gly Ala Leu Leu Ala Val
 35 40 45
 Val Ser Leu Leu Ser Ser Ser Val Ala Ala Glu Val Phe Glu Lys Leu
 50 55 60
 Ser Ala Val Pro Gln Gly Leu Phe Ser Arg Pro Pro Ala Ser Tyr Val
 65 70 75 80
 Val Thr Asp Glu Asn Arg Met Glu Ile Leu Pro His Pro
 85 90

<210> 30480
 <211> 199
 <212> PRT
 <213> A.fumigatus

<400> 30480
 Leu Thr Arg Thr Gly Trp Lys Tyr Ser His Thr Pro Ser Asp Arg Asp
 1 5 10 15
 Pro Ile Arg Leu Gln Ile Ala Leu Lys Gln His Asp Val Glu Gly Phe
 20 25 30

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<210> 30481
<211> 64
<212> PRT
<213> A.fumigatus
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<210> 30482
<211> 142
<212> PRT
<213> A.fumigatus
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<400> 30482															
Thr	Arg	Phe	Phe	Gln	Thr	Pro	Phe	His	Pro	Val	Ile	Leu	Glu	Ile	Asp
1				5					10					15	
Ala	Thr	His	Thr	Ile	Phe	Val	Met	Ser	Gln	Glu	Tyr	Phe	Pro	Gly	Lys
			20					25					30		
Gly	Ala	Ser	Ala	Gly	Glu	Gly	Ser	Ser	Arg	His	Pro	Pro	Glu	Asp	Val
		35					40					45			
Ser	Ser	Glu	Asn	Ser	Pro	Pro	Tyr	Pro	Arg	Pro	Pro	Pro	Thr	Tyr	Met
	50					55					60				
Thr	Val	Gly	Asn	Gly	Ser	Thr	Ser	Glu	Ser	Ala	Thr	Ala	Leu	Met	Ala
65				70						75					80
Ser	Leu	Asn	Ala	Asp	Ser	Gly	Tyr	Gly	Gly	Ser	Ile	Ala	Ser	Gly	Ser
				85					90					95	

Val Met Asp Gly Asp Glu Gly Ala Gly Trp Arg Ala Asp Met Met Val
 100 105 110
 Asp Lys Pro Thr Pro Val Pro Asn Thr Ser Ser Ile Gly Asn Trp Asn
 115 120 125
 Pro Ala Gly Phe Glu Phe Cys Ser Cys Trp Asp Asp Lys Gly
 130 135 140

<210> 30483
 <211> 74
 <212> PRT
 <213> A.fumigatus

<400> 30483
 Ile Val Glu Trp Ala Phe Gly Lys Arg Met Thr Pro Ala Glu Arg Leu
 1 5 10 15
 Arg Lys His Gln Arg Ala Leu Asp Arg Thr Gln Arg Glu Leu Asp Arg
 20 25 30
 Glu Arg Ile Lys Leu Glu Asn Gln Glu Lys Lys Leu Ile Gln Asp Ile
 35 40 45
 Lys Lys Ser Ala Lys Asn Gly Gln Ile Gly Ala Cys Lys Ile Gln Ala
 50 55 60
 Lys Asp Leu Val Arg Thr Arg Arg Tyr Val
 65 70

<210> 30484
 <211> 188
 <212> PRT
 <213> A.fumigatus

<400> 30484
 Val His Pro Glu Ile Leu Ser Asp Ala Asp Ala Val Thr Gly His Phe
 1 5 10 15
 Pro Pro Tyr Ser Gly Thr Ala Ala Val Arg Glu Leu Ala Asp Gln Cys
 20 25 30
 Ala Asp Ile Asp Ile Gln Thr Val Arg Ser Asn Glu Gln Met Met Gln
 35 40 45
 Ser Met Lys Gly Ala Thr Met Leu Leu Gly Ser Met Asn Arg Gln Met
 50 55 60
 Asn Leu Pro Ala Leu Gln Arg Ile Ala Met Glu Phe Glu Arg Glu Asn
 65 70 75 80
 Asp Ile Met Asp Gln Arg Gln Glu Met Met Asp Asp Ala Ile Asp Glu
 85 90 95
 Ala Thr Gly Leu Glu Gly Glu Glu Glu Gly Glu Asp Ile Val Lys
 100 105 110
 Glu Val Leu Asp Glu Ile Gly Val Asp Leu Ser Gln Ala Val Cys Phe
 115 120 125
 Ile Gln Trp Ser Thr Ser His Ser Cys Ala Leu Leu Thr Phe Leu Pro
 130 135 140
 Gln Leu Gly Glu Thr Pro Ser Asp Ile Gln Lys Thr Ser Val Gly Glu
 145 150 155 160
 Thr Arg Val Ala Gln Ala Val Gly Ala Gly Gly Gly Thr Ala Ser Asp
 165 170 175
 Asp Asp Leu Gln Ala Arg Leu Asp Ser Leu Arg Arg
 180 185

<210> 30485

<211> 192

<212> PRT

<213> A.fumigatus

<400> 30485

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Ser Ser Ile Ser Val Asp Thr Ser Ala Cys Arg Ser Arg His Thr Ile
1      5      10      15
His Gly Ser Ser Arg Thr His Ser Ser Gly Val Ile His Arg Thr Asn
      20      25      30
Asp Asn Gly Met Thr Pro Arg Ile Leu Ser Glu Gln Leu Glu Thr Ala
      35      40      45
His Ser Arg Ser Ser Ala Ala Arg Asn Ser Gly Ser His Ser Arg Ser
      50      55      60
Leu Ser Ser Asn Lys Thr Val Thr Ala Ile Pro Ser Leu Leu Pro
65      70      75      80
Ser Ala Pro Ala Ser Pro Pro Thr Pro Ala Ser Ser Pro Thr Pro His
      85      90      95
Gln Arg Pro Pro Thr Trp Gln Ser Ser Asp Glu Asp Asp Ala Phe
      100      105      110
Leu Leu Asn Ser Arg Ile His Phe Thr Ser Leu Ser Ser Ala Lys Lys
      115      120      125
Gln Arg Phe Leu Glu Gly Val Leu Gly Leu Cys Asp Ser Gln Leu Leu
      130      135      140
Ser Tyr Val Ser Ser Tyr Val Ala Pro Arg Leu Arg Lys Asp Pro Phe
145      150      155      160
Gln Val Phe Pro Thr Glu Leu Cys Leu Arg Val Ser Phe Ser Val Asp
      165      170      175
Asp Arg Leu Thr Leu Pro Asp Arg Thr Asp Leu Ser Thr Leu His Tyr
      180      185      190

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<210> 30486

<211> 174

<212> PRT

<213> A.fumigatus

<400> 30486

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Ala Ala Glu Asn Glu Thr Trp Asp Glu Ser Glu His Met Glu Lys Arg
1      5      10      15
Trp Lys Met Ala Leu Lys Arg Lys Tyr Met Val Met Gly Leu Ala Thr
      20      25      30
Val Gly Gly Gly Leu Ile Ile Gly Leu Ser Ala Gly Leu Leu Ala Pro
      35      40      45
Val Ile Gly Ala Gly Leu Ala Ala Gly Phe Thr Thr Val Gly Ile Ser
      50      55      60
Gly Thr Ser Ala Phe Leu Gly Gly Ala Gly Gly Thr Ala Leu Ile Ala
65      70      75      80
Ser Gly Ala Thr Leu Thr Gly Ser Thr Ile Gly Leu Arg Ala Ser His
      85      90      95
Arg Arg Thr Gly Ala Val Gln Thr Phe Glu Tyr Arg Pro Leu His Asn
      100      105      110
Asn Lys Arg Val Asn Leu Ile Val Ala Ile Ser Gly Trp Met Thr Gly
      115      120      125
Lys Val Asp Asp Val Arg Leu Pro Phe Ser Thr Val Asp Pro Ile Met
      130      135      140
Gly Asp Ile Tyr Ser Val Leu Trp Glu Pro Glu Met Leu Gln Ser Met
145      150      155      160

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Gly Ala Thr Ile Asn Ile Leu Ala Thr Glu Val Ser Val Ser
 165 170

<210> 30487

<211> 434

<212> PRT

<213> A.fumigatus

<400> 30487

Ala Leu Thr Gln Gly Leu Gln Gln Val Leu Gly Ser Thr Val Leu Met
 1 5 10 15
 Ala Leu Met Ala Ser Leu Gln Leu Pro Leu Val Leu Thr Lys Leu Ser
 20 25 30
 Tyr Leu Ile Asp Asn Pro Trp Asn Val Ser Leu Ala Arg Ala Asn Ala
 35 40 45
 Ala Gly Leu Ile Leu Ala Asp Ser Leu Met Asp His Asn Leu Gly Lys
 50 55 60
 Arg Pro Val Thr Leu Leu Gly Phe Ser Leu Gly Ala Arg Val Ile Phe
 65 70 75 80
 Ser Cys Leu Lys Glu Leu Ala Asp Lys Gly Ala Ser Gly Leu Val Gln
 85 90 95
 Asn Val Tyr Leu Phe Gly Ala Pro Leu Val Ala Asn Lys Asp Glu Phe
 100 105 110
 Ile Lys Ala Arg Ser Val Val Ser Gly Arg Phe Val Asn Gly Tyr Ser
 115 120 125
 Ser Asn Asp Trp Ile Leu Gly Tyr Leu Phe Arg Ala Thr Ser Gly Gly
 130 135 140
 Ile Met Arg Val Ala Gly Ile Ala Pro Val Glu Gly Ile Pro Gly Leu
 145 150 155 160
 Glu Asn His Asp Val Thr Asn Leu Val Asn Gly His Met Asp Tyr Arg
 165 170 175
 Ala Ala Ile Pro Arg Leu Leu Lys Glu Val Gly Trp Glu Val Leu Ser
 180 185 190
 Glu Glu Phe Ala Glu Ile Glu Asp Pro Asp Pro Glu Asn His Gly Glu
 195 200 205
 Arg Gln Arg Glu Leu Ile Arg Glu Ile Asp Glu Ala Arg Lys Ala Ala
 210 215 220
 Glu Ala Gln Pro Glu Lys Lys Arg Phe Gly Leu Phe Lys Arg Gly Lys
 225 230 235 240
 Leu Ala Glu Lys Lys Gly Trp Glu Thr Tyr Asp Val Lys Arg Asn Asp
 245 250 255
 Ser Phe Pro Arg Glu Ser Thr Asp Ser Asn Gly Thr Gly Ala Val Leu
 260 265 270
 Phe Asp Ile Asp Ala Ile Arg Ala Glu Leu Ala Ser Glu Met Ile Glu
 275 280 285
 Val Lys Gln Leu Glu Ser Thr Leu Pro Pro Met Lys Leu Asp Leu Asn
 290 295 300
 Ser Pro Ser Thr Gln Ser Pro Ala Ala Ala Thr Pro Ser Glu His Arg
 305 310 315 320
 Ala Pro Lys Asp Gly Arg Ala Thr Pro Ser Val Pro Gln Thr Pro Asp
 325 330 335
 Glu Asn Ser Arg Gly His Ser Ala Ser Gln Lys Thr Gln Ser Pro Pro
 340 345 350
 Pro Arg Gln Glu Gln Ile His Met Ala Phe Asp Thr Ser Tyr Asp Asn
 355 360 365
 Pro Pro Gln Arg Ser His Ser Ser Phe Glu Pro Ala Ser Tyr Asp Leu

11580

370		375		380
Cys Pro Thr Arg Pro Ala Leu Arg Ser Ser Val Thr Met Pro Thr Ser				
385		390		395
Val Gly Ala Ser Ala Leu Gly Ala Met Ala Leu Glu Pro Asn Ala Trp				
	405		410	415
Ala Asp His Asp Phe Gly His Gly Glu Glu Gly Glu Ile Ser Met Thr				
	420		425	430
Phe Glu				

<210> 30488

<211> 145

<212> PRT

<213> A.fumigatus

<400> 30488

Thr Ala Pro Val Arg Leu Cys Glu Ala Leu Arg Pro Ile Val Leu Pro				
1	5		10	15
Val Lys Val Ala Pro Glu Ala Ile Lys Ala Val Pro Pro Ala Pro Pro				
	20		25	30
Lys Lys Ala Leu Val Pro Glu Ile Pro Thr Val Val Lys Pro Ala Ala				
	35		40	45
Arg Pro Ala Pro Met Thr Gly Ala Ser Lys Pro Ala Glu Ser Pro Met				
	50		55	60
Ile Lys Pro Pro Pro Thr Val Ala Arg Pro Met Thr Ile Tyr Phe Arg				
	65		70	75
Phe Ser Ala Ile Phe Gln Arg Phe Ser Met Cys Ser Asp Ser Ser Gln				
	85		90	95
Val Ser Phe Ser Ala Ala Tyr Cys Ile Ser Arg Ala Ser Met Thr Arg				
	100		105	110
Leu Ser Lys Arg Ala Ile Cys Asn Gln Asp Thr Ser Ile Asp Cys Pro				
	115		120	125
Thr Leu Ser Ser Lys Asp Arg Asp Arg Ala Ser Leu Tyr Thr Ala Gly				
	130		135	140
Leu				
145				

<210> 30489

<211> 241

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (106)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30489

Gly Lys Ala Ser Arg Ile Phe Ser Thr Pro Ser Ile Gly Val Leu Thr				
1	5		10	15
Glu Thr Lys Ala Arg Pro Tyr Ser Pro Pro Asn Asn Phe Gly Asp Asp				
	20		25	30
Asn Ser Arg Pro Ala Ser Gln Ala Gly Gly Thr Pro Pro Ser Ala Ala				
	35		40	45
Gly Val Arg Gly Ala Ser Pro Arg Gly Ile Asp Pro Phe Gly Leu Ser				
	50		55	60

11581

Gln Thr Pro Val Gln Gly Asn Thr Asp Thr Ala Gly Gly Ala Ser Leu
 65 70 75 80
 Gln Ser Pro Ser Arg Ala Asn Ser Thr Ser Ser Pro Ser Ser Gly Met
 85 90 95
 Asn Pro Ile Phe Gly Lys Leu Glu Gly Xaa Asp Gln Pro Pro Thr Ser
 100 105 110
 Thr Ser Ser Pro Gly Arg Ala Asp Ser Pro Ser Ser Arg Gln Ala Ala
 115 120 125
 Val Lys Pro Asn Ala Gly Ala Ile Gly Ser Val Gly Pro Ile Gly Ser
 130 135 140
 Arg Pro Val Gln Gln Ser Gly Pro Ser Gln Ile Ser Asn Pro Ala Leu
 145 150 155 160
 Asn Lys Arg Ser Thr Thr Pro Leu Pro Ser Pro Leu Gly Phe Gly Phe
 165 170 175
 Thr Ser Ser Asp Gly Val Ala Ser Gly Ala Asn Asn Asp Arg Ala Ala
 180 185 190
 Ser Ser Ala Ser Asn Pro Val Ala Ser Thr Pro Ala Thr Asn Ala Gly
 195 200 205
 Ala Lys Glu Ser Ser Gly Gly Val Gly Leu Gly Trp Gly Asn Gly Ser
 210 215 220
 Gly Val Trp Gly Ser Lys Gly Gly Leu Gly Val Gln Ala Ser Val Trp
 225 230 235 240
 Gly

<210> 30490

<211> 65

<212> PRT

<213> A.fumigatus

<400> 30490

Val Leu Asn Ala Met Phe Arg Gly Asn Phe Cys Phe Ala Tyr Val Pro
 1 5 10 15
 Val Phe Leu Val Leu Glu Leu Ser Thr Tyr Phe Ile Ser His Val Ile
 20 25 30
 Glu Leu Ser Val Phe Ser His Lys Ala Thr Tyr Val Leu Ala Val Tyr
 35 40 45
 Ala Gln Glu Val Val Asp Ala Leu Leu Gly Asp Glu His Val His Ala
 50 55 60
 Arg
 65

<210> 30491

<211> 297

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (185)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30491

Phe Thr Asp Ile Ile Leu Ala Phe Cys Asp Val Glu Gly Asn Tyr Phe
 1 5 10 15
 Ile Val Leu Ala Tyr Arg Tyr Thr Thr Met Leu Ser Ala Gln Leu Ile

11582

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      20      25      30
Asn Leu Trp Thr Ile Ala Val Val Val Phe Ile Ser Phe Leu Phe Gly
      35      40      45
Arg Val Arg Tyr His Ile Thr Gln Ile Leu Gly Ile Leu Ile Cys Ile
      50      55      60
Gly Gly Met Gly Val Leu Ile Ala Ser Asp His Ile Thr Gly Ser Asn
65      70      75      80
Gly Gly Asp Val Ser Ser Gly Asn Gln Ile Lys Gly Asp Leu Phe Ala
      85      90      95
Leu Leu Gly Ala Ser Leu Tyr Gly Leu Thr Asn Thr Gly Glu Glu Tyr
      100      105      110
Phe Val Ser Ser Arg Pro Val Tyr Glu Val Leu Gly Gln Met Ala Phe
      115      120      125
Phe Gly Met Ile Ile Asn Gly Val Gln Ala Gly Ile Phe Asp Arg His
      130      135      140
Ser Phe Gln Ile Ala Val Trp Asn Ser Arg Val Gly Gly Tyr Phe Thr
145      150      155      160
Gly Tyr Thr Leu Cys Leu Ala Phe Phe Tyr Cys Met Ala Pro Leu Leu
      165      170      175
Phe Arg Leu Ser Ser Ala Ala Phe Xaa Asn Ile Ser Leu Leu Thr Met
      180      185      190
Asn Phe Trp Gly Val Cys Ile Gly Ile Glu Val Phe His Tyr Lys Ile
      195      200      205
His Trp Met Tyr Pro Ile Ala Phe Val Leu Ile Ile Val Gly Gln Leu
      210      215      220
Ile Tyr Phe Leu Gly Lys Arg Val Leu Gly Glu Ala Arg Lys Pro Trp
225      230      235      240
Leu Gly Lys Asn Gln Glu Arg Gly Phe Ala Gly Leu Phe Thr Ala Lys
      245      250      255
Ala Lys Ile Asp Ser Val Arg Ala Lys Leu Ala Ser Asn Asn Asn His
      260      265      270
Asn Val Asn Ala Gly Gly Ala His Asp Asp Arg Thr Ala Ala Thr
      275      280      285
Ile Asp Glu Arg His Ser Asn Ala Val
      290      295

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<210> 30492

<211> 80

<212> PRT

<213> A.fumigatus

<400> 30492

```

Leu Lys Arg Trp Ile Leu Phe Ile Glu Lys Gly Ser Lys Glu Cys Phe
1      5      10      15
Thr Ser Tyr Ala Pro Phe Val Asp Leu Ile Leu Glu Asp His Glu Ala
      20      25      30
Leu Ala Lys His Arg His Leu Glu Val Tyr Asp Val Ala Val Phe Val
      35      40      45
Thr Val Cys Ala Ile Ser Gln Leu Ser Lys Lys Leu Met Pro Val Ala
      50      55      60
Gln Ala Lys His Asp Ile Cys Ser Gln Asn His Lys Asn Lys Thr Pro
65      70      75      80

```

<210> 30493

<211> 74

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (8), (64), (74)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30493

```

Pro Arg Gly Thr Ile Thr Pro Xaa Cys Ser Val Thr Lys Ile Val Thr
1          5          10          15
Ala Leu Ala Ala Leu Thr Phe Val Asp Arg Gly Gln Phe Asp Pro Asn
          20          25          30
Ala Lys Val Ala Gln Tyr Trp Pro Glu Phe Ala Ala His Gly Lys Gln
          35          40          45
Asp Ile Glu Val Arg His Val Leu Ser His Thr Ala Gly Leu Pro Xaa
          50          55          60
Trp Asp Pro Pro Leu Ser Arg Glu Glu Xaa
65          70

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<210> 30494

<211> 251

<212> PRT

<213> A.fumigatus

<400> 30494

```

Tyr Asn Thr Pro Leu Ala Thr Gln Lys Leu Ile Gln Gln Gln Pro Trp
1          5          10          15
Trp Thr Pro Gly Ser Ala Ser Gly Tyr His Leu Ser Thr Gln Gly Phe
          20          25          30
Leu Leu Gly Glu Leu Val Arg Arg Val Ser Gly Lys Ser Leu Thr Gln
          35          40          45
Phe Ile Ala Asp Glu Leu Ala Ala Pro Leu Gly Ala Asp Phe Gln Leu
          50          55          60
Gly Val Ala Glu Lys Asp Trp Pro Arg Thr Ala Asp Ile Val Pro Pro
65          70          75          80
Pro Ala Ala Pro Phe Pro Ala Leu Asp Pro Gln Ser Ile Ala Met Arg
          85          90          95
Ala Phe Arg Gly Thr Pro Ala Asp Ala Thr Ala Ser Met Thr Pro Glu
          100          105          110
Phe Arg Arg Ala Glu Gln Gly Ala Ser Gly Gly Phe Gly Asn Ala Arg
          115          120          125
Ala Ile Asn Lys Ile Ala Ser Met Val Thr Leu Gly Gly Ser Val Asn
          130          135          140
Gly Lys Arg Phe Leu Ser Pro Gln Thr Ile Asp Leu Ile Phe Gln Glu
145          150          155          160
Gln Val Ser Gly Val Asp Leu Val Leu Gly Ser Phe Leu Arg Phe Gly
          165          170          175
Ile Gly Met Gly Leu Pro Thr Pro Glu Asn Lys Ala Leu Glu Trp Met
          180          185          190
Pro Gln Gly Lys Val Cys Phe Trp Gly Gly Trp Gly Gly Ser Ile Ala
          195          200          205
Ile Met Asp Leu Asp Arg Lys Val Thr Val Thr Tyr Thr Leu Asn Lys
210          215          220
Met Gly Ala Gly Thr Leu Gly Asn Pro Arg Thr Glu Lys Tyr Val Arg
225          230          235          240
Ala Val Tyr Ala Ala Leu Asp Ala Tyr Lys Pro

```

<210> 30495
 <211> 162
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (51), (107), (117)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30495

Pro	Phe	Phe	Glu	Glu	His	Leu	Ala	Ser	Gly	Glu	Glu	Leu	Gly	Ala	Asp
1			5						10					15	
Ile	Cys	Val	Asn	Ile	Asn	Gly	Glu	Asn	Arg	Cys	Arg	Ala	Leu	Gly	Arg
			20					25					30		
Ala	Thr	Gln	Thr	Met	His	Ala	Gln	Ser	Pro	Asp	Pro	Glu	Ala	Pro	Ser
			35				40					45			
Pro	Arg	Xaa	Val	Pro	Ser	Pro	Arg	Ser	Ser	Leu	Leu	Ser	Pro	Arg	Ser
	50					55				60					
Pro	Ser	Ser	Thr	Ala	Ala	Ser	Leu	Thr	Leu	Thr	Pro	Lys	Ser	Pro	Ser
65					70				75					80	
Thr	Gly	Pro	Ser	Ser	Pro	Arg	Thr	Val	Ser	Arg	Thr	Ser	Arg	Ser	Ala
				85				90					95		
Met	Cys	Ser	Ala	Ile	Leu	Pro	Ala	Tyr	Pro	Xaa	Gly	Ile	Arg	Pro	Cys
			100				105					110			
Pro	Ala	Lys	Asn	Xaa	Thr	Thr	Arg	Pro	Trp	Pro	Arg	Arg	Asn	Ser	Ser
		115				120						125			
Ser	Asn	Asn	Pro	Gly	Gly	Arg	Pro	Ala	Pro	Pro	Arg	Asp	Thr	Thr	Ser
	130					135					140				
Arg	Pro	Arg	Ala	Ser	Tyr	Ser	Ala	Ser	Ser	Cys	Ala	Ala	Ser	Gln	Ala
145					150					155					160
Ser	Arg														

<210> 30496
 <211> 234
 <212> PRT
 <213> A.fumigatus

<400> 30496

Pro	His	Thr	Pro	Gln	Arg	Arg	Ile	Cys	Gln	Leu	Gly	Thr	Thr	Cys	Arg
1				5					10					15	
Lys	Gly	Phe	Thr	Lys	Pro	Pro	Thr	Ser	Arg	Gln	Gly	Asn	Thr	Arg	His
			20				25						30		
Cys	Arg	Gly	Gln	Ile	Ser	Ala	Arg	Leu	Ser	Pro	Asn	Gln	Ser	Pro	Thr
		35				40						45			
Leu	Ser	Gln	Gly	Pro	Pro	Pro	Gly	Ala	Pro	Pro	Thr	Gln	Arg	Ala	
	50					55				60					
Pro	Ser	Val	Pro	Pro	Pro	Lys	Gly	Thr	Ala	Pro	Pro	Pro	Arg	Val	
65					70				75					80	
Thr	Ser	Pro	Pro	Thr	Asn	Pro	Pro	Gly	Pro	Ser	Ser	Ala	Ala	Asn	Pro
				85				90					95		
Tyr	Ala	Ser	Leu	Pro	Gln	Ser	Pro	Pro	Met	Gly	Ser	Thr	Met	Gly	Val
			100				105						110		

11585

Pro Pro Pro Pro Ser Ile Pro Arg Gly Pro Ser Pro Tyr Asn Ala Pro
 115 120 125
 Pro Ser Met Pro Pro Pro Ser Asn Arg Tyr Ala Pro Ser Pro Ala Thr
 130 135 140
 Gln Ala Ala Ser Pro Gln Leu Ser Thr Arg Ala Pro Val Pro Pro Pro
 145 150 155 160
 Pro His Ala Ala Ala Ser Pro Tyr Thr Ser Gln Pro Gly Ser His Pro
 165 170 175
 Pro Pro Ala Asn Pro Tyr Ala Pro Ser Thr Pro Pro Pro Ser Gln Leu
 180 185 190
 Pro Met Gln Gln Ala Pro Pro Pro Gln Ala Thr Ser Ser Arg Pro Ser
 195 200 205
 Thr Ala Ser Ser Gln Arg Lys Ala Ala Pro Ala Pro Pro Lys Tyr Arg
 210 215 220
 Lys Ser Phe Leu Leu Leu Asp Ser His Ser
 225 230

<210> 30497

<211> 646

<212> PRT

<213> A.fumigatus

<400> 30497

Gln Arg Ala Met Ser Ser Val Leu Leu Asp Thr Ser Pro Glu Arg Arg
 1 5 10 15
 Ala Ala Asn Cys Leu Thr Thr Leu Pro Pro Ala Val Lys Thr Glu Gly
 20 25 30
 Lys Arg Ala Ser Lys Ile Lys Ile Thr Pro Phe Glu Val Asp Glu Thr
 35 40 45
 Val Ala Lys Ser Thr Glu Thr Phe Glu Asn Ala Leu Lys Glu Gly Asp
 50 55 60
 Leu Arg Ser Ile Cys Glu Thr Arg Ala Ser Gln Ala Ala Ser Asp Glu
 65 70 75 80
 Glu Lys Ala Asp Trp Lys Val Ile Glu Ala Leu Ile Ser Glu Asn Pro
 85 90 95
 Arg Lys Ser Leu Ile Glu Tyr Leu Gly Phe Gln Asp Gln Asp Asp Glu
 100 105 110
 Thr Ala Asp Lys Leu Ala Gln Leu Gly Leu Asn Lys Glu Glu Asp Glu
 115 120 125
 Val Asn Gly Lys Ser Ala Lys Glu Ser Arg Gly Ser Gly Ala Lys Lys
 130 135 140
 His Lys Arg Leu Gln Ser Met Phe Asp Ala Asn Pro Glu Ala Asp Asn
 145 150 155 160
 Phe Leu Ser Asp Leu Ala Ala Ser Lys Gly Ala Lys Thr Asn Asn Pro
 165 170 175
 Phe Gln Ile Phe Asn Gly Ser Glu Thr Glu Ala Asp Lys Gly Ile Thr
 180 185 190
 Arg Ala Leu Leu Leu Gly Asn Phe Glu Lys Ala Leu Asp Val Ala Leu
 195 200 205
 Lys Glu Asp Arg Met Ser Asp Ala Phe Met Ile Ala Ile Cys Gly Gly
 210 215 220
 Gln Lys Cys Ile Glu Lys Ala Gln Glu His Tyr Phe Ser Lys Gln Thr
 225 230 235 240
 Asp Gly Pro Asn Tyr Ile Arg Leu Leu Ala Ser Ile Val Gly Lys Asn
 245 250 255
 Leu Trp Asp Val Val His Asn Ala Asp Leu Ser Asn Trp Arg Glu Val

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<210> 30498
<211> 143
<212> PRT
<213> A.fumigatus
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<221> UNSURE

<222>

(48), (49), (50), (52), (54), (55), (62), (63), (74), (82), (93), (95), (100), (107), (117)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30498

```

Phe Pro Phe Val Val Leu Thr Leu Ile Ser Ser Arg Arg Pro Leu Pro
1           5           10           15
His Pro Arg Arg Arg His Ala Tyr Leu Arg Asp Pro Leu Arg Arg His
          20           25           30
Ala Ala Arg Glu Val Ser Ser Ala Ile Leu Leu Gln Ser Ala Arg Xaa
          35           40           45
Xaa Xaa Pro Xaa Arg Xaa Xaa Ala Arg Gly Pro Arg Pro Xaa Xaa Arg
          50           55           60
Pro Ala Arg Arg Pro Gly Pro Arg Gly Xaa Gly Glu Pro Pro Pro Pro
65          70           75           80
Arg Xaa Pro Ala Gly Pro Arg Gly Pro Ala Pro Ala Xaa Ala Xaa Gly
          85           90           95
Arg Arg Arg Xaa Arg Ala Asp Pro Ala Gly Xaa Pro Gly Pro Asp Arg
          100          105          110
Pro Thr Gln Gly Xaa Arg Pro Ser Pro Lys Glu Lys Asn Gln Pro Gly
          115          120          125
Thr Gly Gly Pro Pro Asn Arg Lys Glu Gly Thr Thr Gln Arg Thr
          130          135          140

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<210> 30499

<211> 145

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222>

(26), (36), (37), (43), (44), (48), (50), (62), (69), (80), (81), (88), (90), (91), (92), (93), (94), (95), (96)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30499

```

Ser Phe Glu Trp Ser Pro Leu Cys Gly Leu Gly Gly Leu Pro Phe Leu
1           5           10           15
Val Gly Phe Phe Leu Trp Gly Ser Ala Xaa Arg Leu Gly Leu Gly Gly
          20           25           30
Pro Ala Pro Xaa Xaa Pro Leu Gly Arg Arg Xaa Xaa Ala Ser Gly Xaa
          35           40           45
Gly Xaa Arg Pro Gly Pro Gly Arg Gly Gly Pro Pro Gly Xaa Gly Gly
          50           55           60
Gly Gly Ala Pro Xaa Gly Pro Gly Ala Pro Gly Ala Ala Pro Gly Xaa
65          70           75           80
Xaa Gly Ala Gly Ala Pro Gly Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa
          85           90           95
Leu Arg Phe Glu Gly Gly Trp Arg Ser Arg Leu His Ala Leu His Val
          100          105          110
Gly Gly Glu Asp Leu Val Asn Arg His Gly Val Cys Gly Asp Val Gly
          115          120          125
Ala Val Ala Gly Ser Leu Ser Lys Ser Glu Leu Arg Met Gly Ile Lys
          130          135          140

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Lys
145

<210> 30500
<211> 217
<212> PRT
<213> A.fumigatus

<400> 30500
Leu Tyr Asn Lys Asn Ser Gln Ala Phe Val Glu Phe Thr Thr Leu Gln
1 5 10 15
Ala Ala Thr Ala Ala Lys His Gln Ile Glu Asn Leu Asn Val Ser Ser
20 25 30
Gln Gly Gly Arg Lys Tyr Met Val His Tyr Thr Asn Pro His Thr Asn
35 40 45
Pro Phe Arg Thr Leu Pro Lys Asp Ala Pro Met Arg Lys Asp Asn Gln
50 55 60
Ala Arg Ser Leu Ser Gly Gly Phe Asn Ser Pro Asn Gln Asn Met Asn
65 70 75 80
Phe Gly Met Asn Asn Met Gly Gly Gly Phe Arg Gly Gly Arg Gly Gly
85 90 95
Phe Asn Ser Arg Gly Gly Met Asn Asn Met Gly Gly Phe Gly Gly Arg
100 105 110
Gly Gly Phe Gln Asn Thr Met Gly Gly Phe Gln Gly Asn Pro Met Val
115 120 125
Gly Gly Phe Gln Gly Asn Pro Met Gly Gly Met Gln Asn Tyr Gly Phe
130 135 140
Asn Asn Arg Ser Asn Met Met Gly Gly Gly Met Arg Gly Gly Pro Gly
145 150 155 160
Gly Met Arg Gly Arg Gly Gly Met Ala Gly Pro Asn Met Met Gly Met
165 170 175
Pro Ala Met Asn Pro Met Gly Gly Met Gly Met Asn Pro Met Ala Gly
180 185 190
Gly Met Asn Pro Met Met Gly Gly Met Gly Gly Asn Met Gly Met Gln
195 200 205
Gly Ala Ser Ser Trp Cys Ser Ile Thr
210 215

<210> 30501
<211> 165
<212> PRT
<213> A.fumigatus

<400> 30501
Tyr Arg Asp Leu Tyr Leu Asn Thr Met Ala Thr Glu Asp Asp Asn Phe
1 5 10 15
Asp Ile Asp Ile Tyr Gly Asp Gly Gly Tyr Asn Thr Asn Asp Gln
20 25 30
Gly Asp Tyr Ile Lys His Glu Asp Thr Glu Leu Ile Leu Asp Ala Pro
35 40 45
Glu Gln Thr Gln Asn Gly Ala Ala Ser Gln Asp Gln Asn Ser Thr Glu
50 55 60
Gln Lys Ala Gln Gln Glu Gln Gly Asp Ser Thr Gly Thr Asn Gly Glu
65 70 75 80
His Val Thr Gln Ala His Ala Val Gln Gln Gln Glu Ala Ser Gln Ala
85 90 95

11589

Ala Pro Ala Pro Gln Gln Gly Val Lys Arg Lys Glu His Glu Asp Arg
 100 105 110
 Pro Ser Asp Pro Asp Ala Thr Thr Ala Leu Leu Ile Ser Asp Leu Tyr
 115 120 125
 Trp Trp Thr Thr Asp Asp Asp Ile Arg Gly Trp Ile Asn Ala Ala Gly
 130 135 140
 Cys Glu Asp Glu Leu Lys Asp Val Thr Phe Ser Glu His Lys Val Asn
 145 150 155 160
 Gly Lys Ser Lys Gly
 165

<210> 30502
 <211> 153
 <212> PRT
 <213> A.fumigatus

<400> 30502
 Arg Lys Val Phe Leu Ser Asp Arg Ala Pro Ala Gly Arg Thr Leu His
 1 5 10 15
 Ala His Val Ser Ala His Ser Thr His His Arg Val His Pro Thr Gly
 20 25 30
 His Arg Ile His Thr His Thr Thr His Gly Ile His Arg Trp His Ser
 35 40 45
 His His Ile Arg Pro Ser His Thr Thr Ala Thr Ala His Ser Ala Arg
 50 55 60
 Thr Ala Thr His Ala Ala Ala His His Ile Ala Thr Val Val Lys Ala
 65 70 75 80
 Val Val Leu His Pro Ser His Trp Ile Ala Leu Glu Ala Ser Asp His
 85 90 95
 Arg Val Ala Leu Lys Thr Ala His Cys Val Leu Lys Ala Ala Ser Ala
 100 105 110
 Pro Lys Ala Ser His Val Val His Ala Ala Ala Val Glu Thr Ser
 115 120 125
 Pro Ser Ala Ala Glu Ala Ser Ala His Val Val His Ser Lys Ile His
 130 135 140
 Ile Leu Ile Arg Arg Val Glu Thr Ala
 145 150

<210> 30503
 <211> 254
 <212> PRT
 <213> A.fumigatus

<400> 30503
 Gln Gly Ala Ser Cys Lys Leu Val Met Tyr Arg Val Phe Cys Pro Ile
 1 5 10 15
 Gly His Ala Asp Gly Cys Leu Leu Ala Gln Arg Phe Thr Gly Pro Gln
 20 25 30
 Ile Leu Arg Met Gln Arg Lys Tyr Pro Glu Val Tyr Lys Lys Thr Ala
 35 40 45
 Arg Ile Ser Leu Val Ser Ser Phe Leu Ala Ser Leu Leu Leu Gly His
 50 55 60
 Ile Ala Pro Met Asp Ile Ser Asp Val Cys Gly Met Asn Leu Trp Asp
 65 70 75 80
 Ile Lys Lys Gly Ala Tyr Asn Glu Lys Leu Leu Gly Leu Cys Ala Gly
 85 90 95

11590

Pro Phe Gly Val Glu Asp Leu Lys Arg Lys Leu Gly Ala Val Pro Glu
 100 105 110
 Asp Gly Gly Leu Arg Leu Gly Lys Ile Asn Arg Tyr Phe Val Glu Arg
 115 120 125
 Tyr Gly Phe Ser Ser Asp Cys Glu Ile Leu Pro Ser Thr Gly Asp Asn
 130 135 140
 Pro Ala Thr Ile Leu Ala Leu Pro Leu Arg Pro Ser Asp Ala Met Val
 145 150 155 160
 Ser Leu Gly Thr Ser Thr Thr Phe Leu Met Ser Thr Pro Asn Tyr Lys
 165 170 175
 Pro Asp Pro Ala Thr His Phe Phe Asn His Pro Thr Thr Pro Gly Leu
 180 185 190
 Tyr Met Phe Met Leu Cys Tyr Lys Asn Gly Gly Leu Ala Arg Glu His
 195 200 205
 Val Arg Asp Ala Ile Asn Glu Lys Ser Gly Ser Gly Ala Ser Gln Ser
 210 215 220
 Trp Glu Ser Phe Asp Lys Ile Met Leu Glu Thr Pro Pro Met Gly Gln
 225 230 235 240
 Lys Thr Glu Ser Gly Pro Met Lys Met Gly Leu Phe Phe Pro
 245 250

<210> 30504

<211> 169

<212> PRT

<213> A.fumigatus

<400> 30504

Lys Leu Asp Pro Val Gly Gly Leu Leu Ile Ser Leu Met Val Ile Lys
 1 5 10 15
 Ala Gly Trp Ala Asn Thr Thr Thr Ser Leu Leu Glu Leu Ala Asp Thr
 20 25 30
 Thr Val Asp Asp Asp Ile Lys Asp Ser Val Arg Asn Ala Ala Ser Lys
 35 40 45
 Ile Leu Ala Lys Leu Glu Asp Pro His Ala Ile Gln Ile Arg Asp Val
 50 55 60
 Gln Gly Met Lys Ser Gly Gln Asn Tyr Leu Met Glu Ile Glu Leu Ala
 65 70 75 80
 Val Pro Gly Ala Trp Ser Leu Ser Arg Ser Arg Glu Ile Glu Glu Thr
 85 90 95
 Val Arg His Ala Val Gly Ala Gly Val Arg Gly Val Lys Arg Leu Lys
 100 105 110
 Val Arg Phe Val Pro Ser Glu Leu Glu His Leu Asp Phe Thr Glu Glu
 115 120 125
 Phe Ile Ala Pro Glu Val Ile Arg Gln Ser Ser Pro Glu Pro Gln Glu
 130 135 140
 Gly Asp Ile Asp Ala Val His Glu Ala His Ala His Asp His Gln His
 145 150 155 160
 Lys Gly Asn Glu Asn Arg Lys Thr Arg
 165

<210> 30505

<211> 300

<212> PRT

<213> A.fumigatus

<220>

11591

<221> UNSURE

<222> (231)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30505

```

Ile Leu Pro Gly Lys Leu Trp Ser Ile Ser Pro Asn Val Lys Gly Trp
1           5           10           15
Val Gly Asp Gln Glu Val Lys Asn His Phe Pro Gln Glu Pro Ser Phe
20           25           30
Pro Tyr Pro Glu Ile Ala Arg Glu Arg Asp Lys Leu Val Arg Asp Ser
35           40           45
Phe His Leu Thr Phe Cys Gln Leu Thr Ile Ser Leu Ala Leu Asn Pro
50           55           60
Ser Tyr Cys Leu Arg Ile Phe Phe Tyr Ser Tyr Phe Phe Asn Asn Thr
65           70           75           80
Pro His Phe Val Ser Phe Phe Phe Leu Thr Leu Pro Ser Ser Val Leu
85           90           95
Ser Pro Ala Phe Leu Ser Val Ser Thr Ser Ser Tyr Leu Pro Ala Gly
100          105          110
Leu Asp Ser Gln Ser Phe Asn Ser His Ile Met Thr Ser Gln Gly Pro
115          120          125
Leu Tyr Ile Gly Phe Asp Leu Ser Thr Gln Gln Leu Lys Gly Leu Val
130          135          140
Val Asn Ser Glu Leu Lys Val Val His Ile Ser Lys Phe Asp Phe Asp
145          150          155          160
Ala Asp Ser His Gly Phe Ser Ile Lys Lys Gly Val Leu Thr Asn Glu
165          170          175
Ala Glu His Glu Val Phe Ala Pro Val Ala Leu Trp Leu Gln Ala Leu
180          185          190
Asp Gly Val Leu Asn Gly Leu Arg Lys Gln Gly Leu Asp Phe Ser Arg
195          200          205
Val Lys Gly Ile Ser Gly Ala Gly Gln Gln His Gly Ser Val Tyr Trp
210          215          220
Gly Glu Asn Ala Glu Ser Xaa Leu Lys Ser Leu Asp Ser Ser Lys Ser
225          230          235          240
Leu Glu Glu Gln Leu Ser Gly Ala Phe Ser His Pro Phe Ser Pro Asn
245          250          255
Trp Gln Asp Ala Ser Thr Gln Lys Glu Cys Asp Glu Phe Asp Ala Phe
260          265          270
Leu Gly Gly Pro Glu Gln Leu Ala Glu Ala Thr Gly Ser Lys Ala His
275          280          285
His Val Ser Trp Ser Cys Thr Val Ser Ser Val Gln
290          295          300

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<210> 30506

<211> 99

<212> PRT

<213> A.fumigatus

<400> 30506

```

Glu Glu Arg Cys Lys Arg Phe Cys Leu Thr Gly Leu Ala Val Leu Ile
1           5           10           15
Ser Leu Val Leu Met Val Val Arg Met Arg Leu Met Tyr Arg Ile Asn
20           25           30
Ile Ala Leu Leu Arg Leu Gly Ala Thr Leu Ser Asp Asp Leu Trp Ser
35           40           45

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11592

Asp Lys Leu Leu Arg Lys Val Gln Met Leu Gln Phe Gly Arg Asp Lys
 50 55 60
 Ser Asp Leu Glu Pro Leu Asp Pro Ala His Thr Gly Pro Asp Gly Met
 65 70 75 80
 Ser Asn Gly Leu Leu Asn Leu Ala Arg Ser Thr Glu Arg Pro Ser Pro
 85 90 95
 Arg His Arg

<210> 30507
 <211> 186
 <212> PRT
 <213> A.fumigatus

<400> 30507
 Thr Leu Thr Ser Leu Gln Trp Tyr Asp Pro Asp Ala Val Thr Thr Arg
 1 5 10 15
 Asn Gly Val Leu Glu Ile Arg Phe Asp Ser Phe Pro Asn His Glu Leu
 20 25 30
 Lys Tyr Arg Ser Gly Met Val Gln Ser Trp Asn Lys Leu Cys Phe Ser
 35 40 45
 Gly Gly Arg Leu Glu Ala Ser Ile Ser Leu Pro Gly Ala Gly Asp Val
 50 55 60
 Ser Gly Phe Trp Pro Gly Phe Trp Ala Met Gly Asn Leu Ala Arg Pro
 65 70 75 80
 Gly Tyr Ala Ala Thr Thr Glu Gly Met Trp Pro Tyr Ser Tyr His Asp
 85 90 95
 Lys Cys Asp Ala Gly Ile Thr Pro Asn Gln Ser Ser Thr Asp Gly Ile
 100 105 110
 Ser Tyr Leu Pro Gly Met Arg Leu Pro Ala Cys Thr Cys Ala Gly Glu
 115 120 125
 Asp His Pro Ser Pro Gly Lys Ser Arg Ser Ala Pro Glu Ile Asp Val
 130 135 140
 Ile Glu Ala Ser Val Thr Ala Leu Asn Asn Asn Pro Asn Ala Val Ile
 145 150 155 160
 Gly Ser Val Ser Gln Ser Leu Gln Met Ala Pro Phe Asp Ile Trp Tyr
 165 170 175
 Met Pro Asp Tyr Gly Lys Cys Tyr Ser Leu
 180 185

<210> 30508
 <211> 74
 <212> PRT
 <213> A.fumigatus

<400> 30508
 Pro Gln Trp Leu Pro Arg Thr Ala Val Lys Gly Met Arg Asp Lys Ser
 1 5 10 15
 Gly Pro Lys Cys Asn Pro Ser Asp Pro Leu Cys Leu Glu Val Arg Glu
 20 25 30
 Arg Pro Leu Leu Ser Asn Ile Arg Arg Gly Leu Ile Asp Pro Asp Thr
 35 40 45
 Pro Asp Ser Ala Lys Thr Lys Lys Ala Ala Asp Gly Lys Glu Trp Ile
 50 55 60
 Leu Val Val Ser Arg Gly Pro Phe Phe Leu
 65 70

<210> 30509
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 30509
 Leu Phe Val Thr Ser Leu Asp Gly Lys Leu Thr Ser Met Ile Gln Phe
 1 5 10 15
 Ser Asp Glu Phe Asn Thr Glu Gly Arg Thr Phe Tyr Glu Gly Asp Asp
 20 25 30
 Pro Phe Tyr Gln Ala Val Asp Leu Trp Tyr Gly Val Thr Gln Asp Leu
 35 40 45
 Glu Val Ser His Glu Thr Cys Ile Ala Asn Trp Ser Lys His
 50 55 60

<210> 30510
 <211> 131
 <212> PRT
 <213> A.fumigatus

<400> 30510
 Arg Asn Tyr Ile Arg Asn Leu Leu Thr Asp Phe Arg Gly Thr Thr Phe
 1 5 10 15
 Leu Ile Gly Pro Phe Leu Gly Pro Ala Leu Ala Gly Tyr Ile Gly Ala
 20 25 30
 Gly Ser Asn Trp Lys Ala Ser Phe Gly Val Leu Thr Ala Phe Tyr Ala
 35 40 45
 Leu Ser Thr Ile Leu Ile Phe Leu Phe Gly Tyr Glu Thr Tyr Tyr Ala
 50 55 60
 Arg Gly His Gln Cys Gln Arg Asn Ser Arg Leu Gln Ser Met Phe Gly
 65 70 75 80
 Ile Lys Asn His Ser Leu Pro Val Gly Arg Thr Leu Ala His Trp Thr
 85 90 95
 Lys Ile Leu Ala Ile Tyr Ile Phe Lys Phe Pro Leu Leu Leu Thr Gly
 100 105 110
 Ile Ala Thr Met Val Asn Phe Cys Trp Pro Ile Gly Gly Trp Ser Asp
 115 120 125
 Pro Ala Thr
 130

<210> 30511
 <211> 142
 <212> PRT
 <213> A.fumigatus

<400> 30511
 Asn Thr Leu Cys Ala Leu Asn Gln Leu Leu Arg Gln Glu Glu Asn Thr
 1 5 10 15
 Ala Ser Glu Gln Thr Met Thr Leu Gln Val Pro Leu Leu Gly Arg Leu
 20 25 30
 His Ile Arg Arg Asn Val Lys Pro Pro Gln Ser Thr Ala Ile Asn Ala
 35 40 45
 Lys Ala Ser Ser Thr Leu Ala Pro Ser Ser His Ala Leu Ser Gln Gly
 50 55 60
 Asn Val Ser Ala Ser Phe Leu Gln Gly Pro Val Gly Cys Gln Leu Pro

11594

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65              70              75              80
Thr Val Met Asp Gly Ala Thr Val Val Gln Asn Gly Trp Gly Trp Asn
      85              90              95
Asp Phe Ser Trp Ser Ile Glu Asp Thr His Gln Ser Leu Phe Asn Asp
      100             105             110
Ala Phe Met Gly Asp Ser Met Gly Gln Ala Ala Leu Trp Tyr Asn Thr
      115             120             125
Ser Asn Asn Ser Leu Ser Thr Trp Asn Thr Phe Asn Ile Leu
      130             135             140

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<210> 30512
 <211> 202
 <212> PRT
 <213> A.fumigatus

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<400> 30512
Arg Pro Ala Ser Tyr Thr Arg Asp Thr Cys Ser Pro Pro Pro Arg Ser
1              5              10              15
Ser Thr His Trp Arg Ile Ala Gly Thr Ala Gly Gly Glu Ser Asn Phe
      20              25              30
Asp Pro Ile Arg Gly Phe Phe Asn Glu Asp Gly Phe Phe Ala Glu Arg
      35              40              45
Met Gly Trp His Leu Pro Gly Phe Asp Asp Ser Ala Trp Thr Ser Glu
      50              55              60
Asn Ser Ala Thr Ser Ala Ser Ser Ala Leu Ser Phe Thr Gly Ala Thr
65              70              75              80
Val Arg Phe Phe Arg Ser Val Val Pro Leu Asn Ile Pro Ala Gly Leu
      85              90              95
Asp Val Ser Ile Ser Phe Val Leu Ser Thr Pro Thr Ala Ala Pro Lys
      100             105             110
Gly Tyr Arg Ala Gln Leu Phe Val Asn Gly Tyr Gln Tyr Gly Arg Tyr
      115             120             125
Asn Pro His Ile Gly Asn Gln Val Val Phe Pro Val Pro Pro Gly Ile
      130             135             140
Leu Asp Tyr Gln Gly Asp Asn Thr Ile Gly Leu Ala Val Trp Ala Gln
145             150             155             160
Thr Glu Glu Gly Ala Gly Ile Gln Val Asp Trp Lys Val Asn Tyr Val
      165             170             175
Ala Asp Ser Ser Leu Ser Val Ala Gly Phe Gly Lys Gly Leu Arg Pro
      180             185             190
Gly Trp Thr Glu Glu Arg Leu Lys Phe Ala
      195             200

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<210> 30513
 <211> 71
 <212> PRT
 <213> A.fumigatus

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<400> 30513
Pro Gly Cys Leu Tyr Phe Leu Ser Ala Trp Tyr Thr Arg Lys Glu Leu
1              5              10              15
Gly Phe Arg Thr Ala Ala Leu Tyr Ser Gly Ser Leu Ile Ser Gly Ala
      20              25              30
Phe Ser Gly Leu Ile Ala Ala Gly Ile Thr Asp Gly Met Glu Asn Val
      35              40              45
Lys Gly Leu Arg Ala Trp Tyr Gly Ser Leu Phe Leu Phe Ala Pro Ser

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11595

50 55 60
 Ser Val Val Ala Gln Ser Cys
 65 70

<210> 30514
 <211> 100
 <212> PRT
 <213> A.fumigatus

<400> 30514
 Leu Arg Ser Leu Ala Asp Phe Ser Arg Arg Trp Leu Phe Ile Ile Glu
 1 5 10 15
 Gly Ala Ile Thr Ile Val Val Ala Phe Ile Ala Met Trp Ile Leu Pro
 20 25 30
 Asn Phe Pro Arg Thr Thr Thr Trp Leu Ser Glu Glu Glu Lys Gln Leu
 35 40 45
 Ala Thr Trp Arg Leu Glu Glu Asp Ile Gly Glu Asp Asp Trp Val Asp
 50 55 60
 Ser Glu Gln Gln Ser Leu Leu His Gly Ala Lys Leu Ala Phe Thr Asp
 65 70 75 80
 Leu Lys Thr Trp Ile Leu Val Ser Arg Tyr Ser Leu Pro Leu Thr Arg
 85 90 95
 Asn Gly Thr Asp
 100

<210> 30515
 <211> 140
 <212> PRT
 <213> A.fumigatus

<400> 30515
 Cys Arg Val Ser Val Ile Asn Arg Leu Ser Leu Cys His Lys Leu Thr
 1 5 10 15
 Val Val Val Pro Ser Asn Leu Met Leu Asn Lys Phe Gly Lys Pro Ala
 20 25 30
 Ile Tyr Leu Pro Cys Ala Met Ile Leu Trp Gly Ile Ile Ser Thr Ala
 35 40 45
 Thr Ala Gly Ala Gln Asn Phe Ala Gly Leu Val Met Thr Arg Phe Phe
 50 55 60
 Leu Gly Phe Ile Glu Ala Ala Tyr Phe Val Arg Leu Ser Asn Asn Asp
 65 70 75 80
 Tyr His Gly Arg Asp Ser Phe Ala Asp Cys Ile Val Ala Arg Leu Pro
 85 90 95
 Leu Leu Ser Glu Cys Leu Val His Ser Gln Arg Ala Gly Leu Pro His
 100 105 110
 Cys Cys Pro Leu Leu Trp Phe Ser Asp Leu Arg Cys Phe Leu Trp Ser
 115 120 125
 His Cys Cys Trp Tyr His Arg Trp Tyr Gly Glu Cys
 130 135 140

<210> 30516
 <211> 158
 <212> PRT
 <213> A.fumigatus

<400> 30516

11596

Met Leu His Ile Leu Cys Ile Val Ser Ser Ala Ser Val Thr Asn Phe
 1 5 10 15
 Phe Pro Thr Val Val Glu Thr Leu Asn Tyr Gly Arg Ile Glu Thr Leu
 20 25 30
 Leu Leu Thr Ala Pro Pro Tyr Cys Leu Ala Val Ile Ser Ala Phe Phe
 35 40 45
 Asn Ala Trp His Ser Asp Arg Thr Gly Glu Lys Tyr Phe His Ile Thr
 50 55 60
 Ala Pro Leu Tyr Ile Ser Val Ala Ala Phe Ile Ile Ala Ala Thr Thr
 65 70 75 80
 Thr Gly Val Ala Pro Arg Tyr Leu Ser Met Met Leu Met Val Pro Ser
 85 90 95
 Leu Tyr Ala Gly Tyr Val Val Ala Leu Gly Trp Ile Ser Ser Thr Leu
 100 105 110
 Pro Arg Pro Ala Ser Lys Arg Ala Ala Leu Ala Ala Ile Asn Met
 115 120 125
 Val Ser Asn Ala Ser Ser Ile Tyr Ala Ser Tyr Met Tyr Pro Asp His
 130 135 140
 Asp Ala Pro Arg Phe Ser Thr Ser Gln Tyr Phe Ser Ile Ile
 145 150 155

<210> 30517

<211> 64

<212> PRT

<213> A.fumigatus

<400> 30517

Ser Leu Leu Ser Asp Arg Phe Ile Val Thr Ala Met Ser Val Asn Cys
 1 5 10 15
 Val Thr Ala Phe Ile Ala Ile Leu Ser Ala Thr Leu Leu Arg Ile Ile
 20 25 30
 Leu Val Arg Leu Asn Lys Lys Leu Asp Arg Gly Glu Ala Leu Asn Asp
 35 40 45
 Gly Ser Val Pro Gly Gln Ala Ser Ser Arg Gly Phe Arg Phe Leu Val
 50 55 60

<210> 30518

<211> 260

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (248)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30518

Phe Leu Tyr Cys Ser Leu Phe Pro Phe Ile Leu Leu Ser Thr Ile Ala
 1 5 10 15
 Leu Asp Ser Phe Gln Ile Leu Arg Asp Asp Thr Arg Asn Ile Leu Ile
 20 25 30
 Pro His Ser Leu Leu Ser Gly Ile Ser Ser Cys His Asp Gln Ala Val
 35 40 45
 Ile Pro Glu Val Gly Val Ser Arg Ala Ala Met Ala Met Gln Pro Ser
 50 55 60
 Tyr Pro Ala Pro Phe Gly Ala Ala Ala Ile Ser Ser Ser Ala Gly Gln

11598

145 150 155 160
 Arg Leu Ser Thr Asp Tyr Thr Gly Ser Thr Ala Ile Val Ala Ile Tyr
 165 170 175
 Gln Ala Ser Gln Ala Ile Tyr Asp Ile Phe Asp Lys Val Ile Val Leu
 180 185 190
 Tyr Glu Gly Arg Gln Ile Tyr Phe Gly Lys Ala Ser Asp Ala Lys Arg
 195 200 205
 Phe Phe Ile Asp Met Gly Phe Asp Cys Pro Asp Arg Gln Thr Thr Gly
 210 215 220
 Asp Phe Leu Thr Ser Leu Thr Ser Pro Ser Glu Arg Leu Val Arg Lys
 225 230 235 240
 Gly Tyr Glu Ala Leu Val Pro Arg Thr Pro Asp Glu Ser Ala Ala Arg
 245 250 255
 Trp Arg Glu Ser Ala Glu Arg Gln Arg Leu Leu Ala Asp Ile Glu Ala
 260 265 270
 Phe Glu Asn Glu Ser Pro Leu Gly Ser Lys Tyr Lys Glu Phe Thr
 275 280 285
 Val Ser Arg Ala Ala Glu Lys Ala Lys Gly Thr Arg Ala Pro Ser Pro
 290 295 300
 Tyr Thr Leu Ser Tyr Pro Met Gln Ile Arg Leu Cys Leu Arg Arg Gly
 305 310 315 320
 Phe Leu Arg Leu Lys Gly Asp Met Ser Met Thr Leu Ala Thr Val Ile
 325 330 335
 Gly Asn Ser Ile Met Ala Phe Ile Val Ser Ser Val Phe Tyr Asn Leu
 340 345 350
 Asp Gln Thr Thr Asn Ser Phe Phe Ser Arg Gly Ala Leu Leu Phe Phe
 355 360 365
 Ala Ile Leu Leu Asn Ala Phe Ala Ser Ser Leu Glu Ile Leu Thr Leu
 370 375 380
 Trp Gln Gln Arg Pro Ile Val Glu Lys His Asp Lys Tyr Ala Leu Tyr
 385 390 395 400
 His Pro Ser Ala Glu Ala Ile Ser Ser Met Ile Val Asp Leu Pro Ser
 405 410 415
 Lys Phe Leu Val Ser Val Val Phe Asn Leu Ile Leu Tyr Phe Met Thr
 420 425 430
 Asn Leu Arg Arg Thr Pro Gly His Phe Phe Val Phe Tyr Leu Phe Ser
 435 440 445
 Val Thr Ile Thr Leu Thr Met Ser Asn Ile Phe Arg Trp Ile Gly Ala
 450 455 460
 Ile Ser Arg Ser Met Ala Gln Ala Met Val Pro Ser Ser Ile Leu Ser
 465 470 475 480
 Ser Ala His Met Gln Ser Thr Ser Leu Pro
 485 490

<210> 30520

<211> 137

<212> PRT

<213> A.fumigatus

<400> 30520

Ile Asn Ala Leu Leu Asp Gln Leu Pro Gln Arg Thr Gln Leu Ser Glu
 1 5 10 15
 Glu Met Asp Thr Val Leu Asn Ser Leu Glu Asp Val Val Asn Leu Ala
 20 25 30
 Ile Cys Cys Glu Pro Ser Asn Ala Lys Thr Asn Ala Ala Val Ser Ala
 35 40 45

11599

Leu Val Ala Ala Ala Gln Cys Ser Lys Asp Val Ala Gly Phe Gln Arg
 50 55 60
 Gly Arg Gly Thr Gly Thr Arg Arg Gln Cys Asn Val Leu Gln Ser
 65 70 75 80
 His Gln Lys Arg Leu Ala Leu Asn Ile Ser Glu Arg Asp Val Asp Ala
 85 90 95
 Ser Arg Val Met Ala Leu Ser Ile Pro Ile Glu Arg Gly Val Phe His
 100 105 110
 Arg Gln Lys Ser Ile Gln Gln Thr Leu Arg Gln Pro Leu Asn Val Leu
 115 120 125
 Pro Ile Ile Leu Leu Asp Val Leu Val
 130 135

<210> 30521

<211> 162

<212> PRT

<213> A.fumigatus

<400> 30521

Ser Arg Val Gly Ser Asn Gly Arg Leu Glu Ile Leu His Pro Asp Gln
 1 5 10 15
 Ser Phe Ile Leu Asn Gly Gln Ile Cys Asp Phe Glu Ser Leu Ile Leu
 20 25 30
 Lys Met Pro Ala Ala Val Gln Asp Thr Leu Val Leu Ser Leu Arg Cys
 35 40 45
 Asp Asn Val Leu Leu Leu Ala Gly Thr Thr Lys Glu Ser Gly His Thr
 50 55 60
 Leu Asp Ala His Val Val Thr Phe Gly Gly Ala Thr Arg Lys Asp Asp
 65 70 75 80
 Phe Leu Trp Ile Arg Pro Asn Gln Phe Arg Asn Ile Phe Ser Gly Leu
 85 90 95
 Phe Asp Ser Leu Leu Arg Leu Pro Thr Ile Cys Val Ser Pro Gly Met
 100 105 110
 Arg Val Ser Val Asp Thr Gly Glu Ile Gly Lys His Ser Ile Glu Asn
 115 120 125
 Thr Arg Ile Asn Arg Arg Ser Gly Leu His Ile Gln Ile Asn Arg Pro
 130 135 140
 Cys Ser Leu Ile His Asn Ser Cys Leu Phe Gln Asn Thr Arg Arg Gly
 145 150 155 160
 Thr His

<210> 30522

<211> 119

<212> PRT

<213> A.fumigatus

<400> 30522

Ser Ala Ser Trp Leu Ser Thr Met Arg Leu Val Leu Phe Asn Pro Trp
 1 5 10 15
 Glu Glu Ile Gly Lys Leu Cys Arg Ala Lys Lys Val Phe Phe His Thr
 20 25 30
 Asp Ala Ala Gln Ala Val Gly Lys Ile Pro Leu Asp Val Asn Lys Leu
 35 40 45
 Asn Ile Asp Leu Met Ser Ile Ser Ser His Lys Ile Tyr Gly Pro Lys
 50 55 60

11600

Gly Ile Gly Ala Cys Tyr Val Arg Arg Arg Pro Arg Val Arg Leu Glu
 65 70 75 80
 Pro Ile Ile Ser Gly Gly Gly Gln Glu Arg Gly Leu Arg Ser Gly Thr
 85 90 95
 Leu Ala Pro His Leu Val Val Gly Phe Gly Glu Ala Cys Arg Ile Ala
 100 105 110
 Ser Gln Asp Met Glu Val Ser
 115

<210> 30523

<211> 293

<212> PRT

<213> A.fumigatus

<400> 30523

Ile Met Ser Ser Val Thr Pro Ser Val Leu Arg Gln Ala Ser Arg Ala
 1 5 10 15
 Tyr Ala Arg Arg Leu Ser Ser Thr Gln His Gly Ser Leu Ala Thr Ala
 20 25 30
 Ser Phe Pro Arg Arg Ala Leu Ala Thr Ser Ser Gly Ala Ala Ser Arg
 35 40 45
 Arg Thr Tyr Val Thr Glu Thr Lys Ala Gly Asn Ala Gln Val Ser Ile
 50 55 60
 Asp Thr Ala Ile Lys Gln Glu Gln Lys Asn Phe Ile Lys Gln Thr Gly
 65 70 75 80
 Leu Glu Pro Gly Lys Val Glu Leu Pro Ala Ser Gly Ile Ser Gly Asp
 85 90 95
 Ala Ser Met Ser Pro Ser Ala Gly Ile Leu Lys Gln Ala Thr Val Met
 100 105 110
 Asp Gln Gly Thr Arg Pro Ile Tyr Leu Asp Met Gln Ala Thr Thr Pro
 115 120 125
 Val Asp Pro Arg Val Leu Asp Ala Met Leu Pro Tyr Leu Thr Gly Ile
 130 135 140
 Tyr Gly Asn Pro His Ser Arg Thr His Ala Tyr Gly Trp Glu Ser Glu
 145 150 155 160
 Lys Ala Val Glu Gln Ala Arg Glu Tyr Ile Ala Lys Leu Ile Gly Ala
 165 170 175
 Asp Pro Lys Glu Ile Ile Phe Thr Ser Gly Ala Thr Glu Ser Asn Asn
 180 185 190
 Met Ser Ile Lys Gly Val Ala Arg Phe Phe Gly Arg Ser Gly Lys Lys
 195 200 205
 Lys His Ile Ile Thr Ser Gln Thr Glu His Lys Cys Val Leu Asp Ser
 210 215 220
 Cys Arg His Leu Gln Asp Glu Gly Phe Glu Val Thr Tyr Leu Pro Val
 225 230 235 240
 Gln Asn Lys Arg Leu Ile Arg Met Glu Asp Leu Glu Ala Ala Ile Arg
 245 250 255
 Pro Asp Thr Ala Leu Val Ser Ile Met Ala Val Asn Asn Glu Ile Gly
 260 265 270
 Val Ile Gln Pro Leu Gly Arg Asp Arg Lys Ala Leu Pro Cys Glu Glu
 275 280 285
 Gly Phe Leu Pro His
 290

<210> 30524

<211> 144

11601

<212> PRT

<213> A.fumigatus

<400> 30524

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His Ile Glu Gln Tyr Asp Arg Lys His Val Glu Arg Leu Ser Lys Arg
1           5           10           15
Leu Leu Asp Gly Leu Leu Ala Met Glu His Thr Thr Leu Asn Gly Asp
          20           25           30
Ala Glu Arg His Tyr Pro Gly Cys Val Asn Val Ser Phe Ala Tyr Ile
          35           40           45
Glu Gly Glu Ser Leu Leu Met Ala Leu Lys Asp Ile Ala Leu Ser Ser
          50           55           60
Gly Ser Ala Cys Thr Ser Ala Ser Leu Glu Pro Ser Tyr Val Leu Arg
65          70          75          80
Ala Leu Gly Ser Ser Asp Glu Ser Ala His Ser Ser Ile Arg Phe Gly
          85          90          95
Ile Gly Arg Phe Thr Thr Asp Ser Glu Ile Asp Tyr Val Leu Lys Ala
          100         105         110
Val Gln Asp Arg Val His Phe Leu Arg Glu Leu Ser Pro Leu Trp Glu
          115         120         125
Leu Val Gln Glu Gly Ile Asp Leu Asn Thr Ile Gln Trp Ser Gln His
          130         135         140

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<210> 30525

<211> 314

<212> PRT

<213> A.fumigatus

<400> 30525

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Leu Pro Ala Arg Met Gly Pro Ser Leu Gly Glu Asn Thr Val Ala Arg
1           5           10           15
Ser Ile Leu Arg Lys Gln Gln Ser Phe Ser Gln Pro Asn Pro Gln Ser
          20           25           30
Ser Pro His Thr Tyr Ser Ser Ser Ala Ser Pro Ser Asp Phe Tyr Arg
          35           40           45
Gln Asp Pro His Tyr Gly Gln Asp Thr Pro Phe Ser Glu Met Asp Ile
          50           55           60
Pro Ile Thr Ala Ile His Leu Gly Pro Val Glu Arg Asn Cys Ser Gln
65          70          75          80
Ser Val Pro Pro Asn Met Arg Phe Gly His His Met Gly Asp Pro Ile
          85          90          95
Pro Arg Pro Ala Ser Thr Lys Val Glu Asn His Arg Arg Arg Pro Ser
          100         105         110
His Asn Asn Asn Pro Ala Leu Cys Pro Leu Asp Glu Leu Glu Ala Leu
          115         120         125
Gly Pro Ile Asp Thr Pro Glu Asp Leu Asp Arg Thr Pro Arg Ala Ala
          130         135         140
His Cys Lys Thr Pro Phe Ser Pro Asp Gly Pro His Ala Asn Asp Ile
145         150         155         160
Ile His Ser Gly Trp Met Lys Lys Arg Lys Thr Thr Arg Leu Leu Arg
          165         170         175
His Glu Trp Glu Asp His His Phe Thr Leu Arg Gly Thr Gln Leu Ala
          180         185         190
Met Tyr Pro Asp Glu Asp Ala Ser Arg Arg Asp Ser Lys Ala Leu Glu
          195         200         205
Tyr Ile Asp Val Asp Asp Tyr Ala Val Ala Cys Ser Ser Leu Ala Ser

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11602

210	215	220
Ser Ser Lys Leu Thr Ala Ala Phe Lys Lys Thr Val Leu Lys Arg Arg		
225	230	235 240
Asp Asn Thr Gln Gly Glu Ala Ala Phe Ala Phe Cys Leu Ile Pro Ser		
	245	250 255
Pro Asn Ala Gly Ser Asp Arg Lys Ser Phe Phe Asn Gln Ala Ala Lys		
	260	265 270
Thr His Arg Phe Ala Val Lys Thr Arg Glu Glu Arg Ile Asp Trp Met		
	275	280 285
Arg Glu Leu Met Leu Ala Lys Ala Leu Arg Arg Gly Arg Glu Ser Gly		
	290	295 300
Ala Thr Leu Asn Leu Asn Gly Asn Pro Leu		
305	310	

<210> 30526
 <211> 85
 <212> PRT
 <213> A.fumigatus

<400> 30526

Leu Leu Leu Gly Val Lys Ser Ser Leu Phe Leu Met Val Ile Asn Leu
1 5 10 15
Ser Trp Leu Lys Pro Asn Pro Leu Arg Arg Leu Val Ile Leu Met Ala
20 25 30
Leu Ala Glu Gly Asp Val Asp Tyr Lys Gly Ser Ala Leu Cys Glu Arg
35 40 45
Leu Ser Ser Ser Cys Asp Asp Ala Tyr Tyr Lys Val Val Pro Ser Asn
50 55 60
Thr Tyr Ile Thr Tyr Pro Glu Tyr Val Tyr Ala Leu Met Arg Met Asp
65 70 75 80
Asp Leu Thr Phe Asp
85

<210> 30527
 <211> 69
 <212> PRT
 <213> A.fumigatus

<400> 30527

Ser Lys Asp Tyr Ile Thr Pro Leu Gln Val Val Thr Ser Arg Asn Ser
1 5 10 15
Arg Asp Glu Ser Gln Asn Val Ser Ile Thr Tyr Ser Cys Ser Val Asn
20 25 30
Pro Ala His Asn Ser Ile Asn Ser Asn Ser Asn Lys Lys Lys Lys
35 40 45
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Glu Lys Lys
50 55 60
Lys Lys Lys Lys Asn
65

<210> 30528
 <211> 156
 <212> PRT
 <213> A.fumigatus

<400> 30528

11603

Pro Arg Arg Gly Ser Pro Gly Arg Arg Glu Pro Ala Ala Gly Arg Ala
 1 5 10 15
 Gly Ala Leu Val Arg Asn Thr Asp Leu Pro Leu Pro Ala Gly Gly Gly
 20 25 30
 Ala Cys Pro Arg Gly Ala Gly Asp Asp Arg Gly Arg Ala Val Arg Gln
 35 40 45
 Ser Ala Pro Ala Gly Cys Gly Ala Gly Ala Ala Ser Gly Ala Asp Glu
 50 55 60
 Gly Gly Asp Gly Glu Cys Ala Gly Gly Ala Val Ala Asp Gly Gly Gly
 65 70 75 80
 Cys Asp Arg Cys Ala Arg Val Trp Ala Trp Gly Pro Arg Leu Gly Ala
 85 90 95
 Ala Val Leu His Arg Ser Asp Cys Asp Trp Gly Gly His Cys Asp Glu
 100 105 110
 Ala Ala Glu Tyr Cys Glu Ser Gly Gly Asp Ala Gly Arg Val Gly Gly
 115 120 125
 Gly His Leu Arg Gln Tyr Pro Cys Arg Pro Gln Gly Glu Tyr His Ser
 130 135 140
 Gly Ser Val Gly Phe Glu Ala Gln Arg Ala Asp Val
 145 150 155

<210> 30529

<211> 417

<212> PRT

<213> A.fumigatus

<400> 30529

Ala Pro Thr Ser Leu Asn Gly Leu Ile Glu Arg Tyr Arg Pro Asp Leu
 1 5 10 15
 Thr Pro Phe Glu Glu Thr Tyr Arg Gln Ile His Arg Ser Pro Glu Leu
 20 25 30
 Ser Gly His Glu Glu Gln Thr Ser Thr Ile Ala Ala Ser His Leu Gln
 35 40 45
 Gly Leu Gly Phe Asp Val His Thr His Ile Gly Gly Tyr Gly Leu Ala
 50 55 60
 Gly Val Leu Arg Asn Gly Pro Gly Pro Thr Val Leu Leu Arg Ala Asp
 65 70 75 80
 Met Asp Ala Leu Pro Val Glu Glu Lys Thr Gly Leu Pro Tyr Ala Ser
 85 90 95
 Thr Lys Thr Ala Thr Gly Pro Asp Gly Glu Thr Val Pro Val Met His
 100 105 110
 Ala Cys Gly His Asp Ser His Val Val Gly Leu Leu Ala Gly Ala Ser
 115 120 125
 Leu Leu Gln Ala Ala Arg Glu His Trp Ser Gly Thr Leu Ile Cys Leu
 130 135 140
 Phe Gln Pro Ala Glu Glu His Val Arg Gly Ala Arg Ala Met Ile Glu
 145 150 155 160
 Asp Gly Leu Tyr Asp Lys Val Pro Gln Pro Asp Val Val Leu Ala Gln
 165 170 175
 His Leu Val Arg Met Lys Ala Gly Thr Val Ser Val Arg Ala Gly Arg
 180 185 190
 Leu Leu Thr Ala Ala Asp Ala Ile Asp Val Arg Val Tyr Gly Arg Gly
 195 200 205
 Gly His Gly Ser Ala Pro Gln Ser Cys Ile Asp Pro Ile Val Ile Gly
 210 215 220
 Ala Ala Ile Val Thr Arg Leu Gln Ser Ile Val Ser Arg Glu Val Thr

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<210> 30530
<211> 102
<212> PRT
<213> A.fumigatus
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<210> 30531
<211> 169
<212> PRT
<213> A.fumigatus
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<400> 30531
Ser Gly Met Ile Phe Ala Leu Trp Pro Ala Trp Ile Leu Pro Gln Val
1           5           10           15
Thr Thr Ala Asn Ser Pro Gly Val Thr Ser Arg Leu Thr Ile Leu Cys

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11605

20 25 30
 Ser Leu Val Thr Met Ala Ala Pro Ile Thr Ile Gly Ser Met Gln Asp
 35 40 45
 Cys Gly Ala Glu Pro Trp Pro Pro Arg Pro Tyr Thr Arg Thr Ser Ile
 50 55 60
 Ala Ser Ala Ala Val Ser Asn Arg Pro Ala Arg Thr Leu Thr Val Pro
 65 70 75 80
 Ala Phe Ile Arg Thr Arg Cys Cys Ala Ser Thr Thr Ser Gly Trp Gly
 85 90 95
 Thr Leu Ser Tyr Ser Pro Ser Ser Ile Ile Ala Arg Ala Pro Arg Thr
 100 105 110
 Cys Ser Ser Ala Gly Trp Lys Arg Gln Ile Ser Val Pro Asp Gln Cys
 115 120 125
 Ser Arg Ala Ala Cys Ser Arg Leu Ala Pro Ala Arg Arg Pro Thr Thr
 130 135 140
 Trp Leu Ser Cys Pro Gln Ala Cys Ile Thr Gly Thr Val Ser Pro Ser
 145 150 155 160
 Gly Pro Val Ala Val Leu Val Leu Ala
 165

<210> 30532
 <211> 203
 <212> PRT
 <213> A.fumigatus

<400> 30532
 Val Arg Met Gly Pro Leu Arg Ala Met Thr Gln Tyr Gly Tyr Ala Asn
 1 5 10 15
 Asp Asp Trp Arg Met Cys Pro Arg Asp Ala Leu Cys Ser Val Ala Ser
 20 25 30
 Met Arg Arg Gly Cys Ser Pro Arg Leu Val Ala Phe Cys Arg Gly Ala
 35 40 45
 Asp Glu Ala Leu Thr Gln Leu Val Gly Ser His Ala Ser Leu Thr Ala
 50 55 60
 Arg Glu Gly Arg Ala Leu Ser Glu Gln Lys Ala Ala Leu Glu Leu Leu
 65 70 75 80
 Glu Gly Met Tyr Met Arg Thr Leu Tyr Val Val His Phe Ser Asp Glu
 85 90 95
 Ala Arg Glu Ser Pro Arg Asp Val Gln Ala Asp Leu Glu Asp Ala Ala
 100 105 110
 Leu Met Ala Trp Ala Glu Phe Leu Pro Asp Gly Phe Leu Asp Thr Leu
 115 120 125
 Ala Gly Gly Gly Val Gly Ala Thr Leu Ser Tyr Val Ile Leu Ala Tyr
 130 135 140
 Phe His Leu Leu Phe Ser Leu Phe Glu Ser Val Trp Tyr Val Gln Gly
 145 150 155 160
 Gly Phe Asp Gly Glu Ile Val Gln Ile Gln Ala Leu Val Glu Met Ser
 165 170 175
 Gly Glu Gly Glu Leu Met Ser Leu Met Gln Trp Pro Val Ala Val Ile
 180 185 190
 Ala Val Asn His Asp His Arg Gly Ser Ser Val
 195 200

<210> 30533
 <211> 286
 <212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (184)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30533

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Ile Lys Asp Lys Met Glu Leu Pro Ser Thr Met Lys Ala Trp Leu Tyr
1          5          10          15
Ser Asn Thr Thr Gly Gly Leu Glu Asn Asn Leu Glu Leu Ser Thr Ser
          20          25          30
Ala Arg Thr Pro Gly Pro Pro Gly His Ser Gln Leu Leu Ile Lys Val
          35          40          45
Ile Ser Ala Ser Ile Asn Pro Ala Asp Tyr Lys Val Pro Glu Met Pro
          50          55          60
Ile Val Pro Arg Phe Phe Val Ser Tyr Pro Ala Thr Pro Gly Met Asp
          65          70          75          80
Phe Cys Gly Gln Val Val Ala Ala Gly Pro Gly Ala Thr Ala Phe Gln
          85          90          95
Pro Gly Gln Leu Val Tyr Gly Thr Thr Ala Ala Pro Ala Gln Phe Gly
          100          105          110
Ser Leu Gly Glu Tyr Leu Leu Cys Lys Thr Glu His Val Ala Leu Leu
          115          120          125
Pro Asp Gly Val Ala Pro Asp His Ala Ala Thr Val Gly Val Ala Ala
          130          135          140
Gln Thr Ala Tyr Gln Ser Ile Ala Pro Tyr Val Ser Ala Gly Asp Arg
          145          150          155          160
Val Phe Ile Asn Gly Gly Ser Gly Gly Cys Gly Ile Phe Ala Ile Gln
          165          170          175
Ile Ala Lys Ala Leu Gly Cys Xaa Val Thr Thr Thr Cys Trp Arg Arg
          180          185          190
Asn Val Pro Phe Cys Lys Glu Leu Gly Ala Glu Glu Val Ile Asp Tyr
          195          200          205
Thr Gln Asp Asp Val Leu Ala Val Leu Arg Ala Pro Gly Pro Gly Val
          210          215          220
Cys Ala Arg Arg Arg Pro Tyr Trp Ala Ala Arg Gly Ala Val Leu Ala
          225          230          235          240
Val Ala Tyr Val Leu Ala Ser Gly Glu Gly Val Cys Ala Gly Trp Cys
          245          250          255
Ala Val Asp Ala Asp Val Cys Ala Ala Gly Gly Val Ala Gly Val Phe
          260          265          270
Gly Arg Trp Ala Glu Glu Val Cys Asp Leu Tyr Asp Glu Glu
          275          280          285

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<210> 30534

<211> 238

<212> PRT

<213> A.fumigatus

<400> 30534

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Pro Pro Pro Thr Arg Pro Ala Ser Pro Pro Asp Ser Gln Tyr Ser Ala
1          5          10          15
Ala Ser Ser Gln Trp Pro Pro Gln Ser Gln Ser Asp Arg Cys Arg Thr
          20          25          30
Ala Ala Pro Ser Arg Gly Pro His Ala His Thr Arg Ala His Arg Ser

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Ser	Lys	Ser	Ser	Gln	Pro	Pro	Ser	Thr	Arg	Pro	Thr	Thr	Lys	Ser	Pro
1				5					10					15	
Lys	Cys	Pro	Ser	Ser	Arg	Gly	Phe	Leu	Cys	Pro	Ile	Pro	Pro	Pro	Arg
			20					25					30		
Glu	Trp	Thr	Phe	Ala	Asp	Arg	Ser	Ser	Pro	Pro	Ala	Pro	Ala	Pro	Pro
		35					40					45			
Pro	Ser	Asn	Arg	Ala	Asn	Trp	Ser	Thr	Ala	Arg	Arg	Arg	Arg	Leu	Arg
	50					55					60				
Ser	Ser	Ala	Arg	Trp	Ala	Ser	Thr	Cys	Ser	Ala	Arg	Arg	Ser	Thr	Ser
65				70					75					80	
Leu	Ser	Cys	Arg	Thr	Gly	Ser	His	Pro	Thr	Thr	Arg	Pro	Pro	Ser	Gly
				85					90					95	
Ser	Pro	Arg	Lys	Arg	Arg	Thr	Ser	Leu	Ser	Arg	Arg	Thr	Ser	Arg	Arg
			100					105					110		
Gly	Ile	Gly	Cys	Ser	Ser	Thr	Gly	Val	Arg	Ala	Gly	Ala	Gly	Ser	Ser
		115					120					125			
Arg	Ser	Arg	Leu	Pro	Arg	Arg	Trp	Gly	Val	Xaa	Ser	Arg	Arg	Arg	Val
	130					135					140				
Gly	Gly	Ala	Met	Cys	Arg	Ser	Ala	Arg	Ser	Trp	Gly	Pro	Arg	Arg	Ser

11608

145		150		155		160
Ser Thr Thr Pro Arg Thr Met Cys Trp Arg Tyr Ser Ala Pro Arg Gly						
	165		170		175	
Pro Val Tyr Ala His Ala Val Asp His Ile Gly Leu Pro Glu Ala Leu						
	180		185		190	
Tyr Ser Gln Ser His Met Phe Leu Leu Pro Gly Lys Ala Phe Val Gln						
	195		200		205	
Val Gly Ala Leu Ser Met Leu Thr Phe Val Arg Arg Val Val Trp Pro						
	210		215		220	
Gly Phe Leu Gly Gly Gly Arg Arg Lys Tyr Val Ile Phe Met Met Lys						
225		230		235		240
Ser Asn Gln Arg Asp Ile Ala Thr Leu Gly Glu Trp Met Gln Gln Gly						
	245		250		255	
Lys Leu Arg Val Glu Val Asp Ser Thr Tyr Glu Leu Glu Asp Ala Val						
	260		265		270	
Lys Ala Phe Ala Lys Leu Arg Ser Gly Arg Ala Arg Gly Lys Ile Ile						
	275		280		285	
Ile His Val Ser Thr Glu Ser Ser						
	290		295			

<210> 30536

<211> 373

<212> PRT

<213> A.fumigatus

<400> 30536

Val Gln Val Val Tyr Ala Ser Leu Val Pro Lys Val Asn Thr Phe Ile									
1	5		10		15				
Tyr Trp Ser Cys Arg Val Leu Leu Pro Glu Lys Gly Gln Arg Pro Gln									
	20		25		30				
Ala His Arg Ile His Gly Cys Pro Gln Ser Arg Leu Asp Thr Arg Arg									
	35		40		45				
Lys Glu Arg Arg Met Val Thr Arg Gln Leu Val His Arg Pro Pro Gly									
	50		55		60				
His Gly Val Arg Pro Cys Leu Val Val Asp Ala Ala Ile Arg Pro His									
65		70		75		80			
His Val Gly Arg Pro Asp Gly Arg Arg Glu Gln Gly Glu Ile Leu Ala									
	85		90		95				
Arg Cys Asp Arg Leu Arg Val His Gln Val Leu Ala Glu Val Gly Ala									
	100		105		110				
Lys Gly Leu Leu Glu Arg Thr His Arg Arg Leu Val Val Asp Gly Arg									
	115		120		125				
Arg Gly Gly Arg His Asn Val Asn Arg Arg Arg Leu His Gly Thr Arg									
	130		135		140				
Arg Arg Thr Phe Arg Leu Asp Asp Ala Leu Asn Ala Arg Asp Asp Ser									
145		150		155		160			
Arg Ala Ser Val Gly Ile Ile Arg Pro His Ala Glu Leu Gln Ile Gln									
	165		170		175				
Leu Ile Arg Asn Asp Ile Arg Leu Val Ala Gly Met Asp Thr Ala Ala									
	180		185		190				
Gly Asp His Arg Gln Leu Ala Arg Arg His Leu Pro Thr His Asn Thr									
	195		200		205				
Leu Gln Pro Arg His Asn Gly Arg Pro Asn His Asn Arg Ile Asp Ala									
	210		215		220				
Gly Leu Arg Arg Arg Ala Val Ala Pro Thr Pro Ile His Ala His Ile									
225		230		235		240			

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<210> 30537
<211> 68
<212> PRT
<213> A.fumigatus
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<210> 30538
<211> 390
<212> PRT
<213> A.fumigatus
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110 111 112

11610

Ala Glu Ile Glu Phe Asp Ser Ser Tyr Ala Ser Ala Val Glu Asp Trp
 115 120 125
 Tyr Lys Asp Asp His Ser His Asp Val Glu Asn His Ile Ile Thr Pro
 130 135 140
 Pro Val His Gly Phe Arg Arg Arg Gly Asp Pro Ser Val Thr Leu Val
 145 150 155 160
 Gly Gly Pro Ser Gly Asn Asp Gly Gly Asn Ser Val Glu Phe Glu Phe
 165 170 175
 Asp Ser Ser Tyr Ala Ser Val Val Lys Asp Ala Tyr Lys Asp Asp His
 180 185 190
 Ser Val Gly Ile Glu Asn His Ile Thr His Pro Pro Pro Ala Pro Gly
 195 200 205
 Phe Arg Lys Arg Gly Asp Gly Asp Thr Thr Val Ile Gly Gly Pro Ser
 210 215 220
 Gly Asn Asp Gly Gly Asn Ser Ala Glu Ile Glu Phe Asp Ser Ser Tyr
 225 230 235 240
 Asn Ser Ala Val Lys Asp Ala Tyr Lys Asp Asp His Ser Val Asp Ile
 245 250 255
 Asp Asp His Ile Val Gln Ala Ala Pro Ser Arg Gly Phe His Lys Arg
 260 265 270
 Gly Gly Gly Asp Thr Thr Val Ile Gly Gly Pro Ser Gly Asp Asp Gly
 275 280 285
 Gly Asn Ser Ala Ser Phe Glu Phe Asp Ser Ser Tyr Ala Ser Ser Val
 290 295 300
 Lys Asp Trp Tyr Lys Asp Asp His Ser Val Asp Val Lys Asn Thr Ile
 305 310 315 320
 Ile His Pro Pro Pro Ile Phe His His Pro Pro Gly Val Gly Phe Arg
 325 330 335
 Lys Arg Gly Gly Gly Asp Thr Thr Val Ile Gly Gly Pro Ser Gly Asp
 340 345 350
 Asp Gly Gly Asn Ser Ala Glu Val Glu Phe Glu Ser Thr Tyr Glu Ser
 355 360 365
 Ser Val Lys Asp Tyr Tyr Lys Glu Thr Ile Gln Cys Leu His His Gly
 370 375 380
 Ala Gly Arg Thr Arg Ala
 385 390

<210> 30539

<211> 139

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (115), (116), (119), (122), (123), (124), (135)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30539

Pro Cys Pro Pro Tyr His Pro Ala Arg Pro Val Arg His Gln Gln
 1 5 10 15
 Ile Arg Pro Val Leu Glu Gln Val Arg Glu Pro Pro Ser Ala Ser Asp
 20 25 30
 Asn Pro Arg Thr Ala Asn Met Ser Ser Arg Phe Phe Tyr Gly Gly Gly
 35 40 45
 Ser Asp Ser Asp Ser Ser Ser Ser Asp Glu Glu Glu Leu Tyr Ser Asp
 50 55 60

11611

Arg Glu Glu Glu Glu Lys Ser Glu Glu Glu Glu Ser Ser Glu Glu Glu
 65 70 75 80
 Asp Glu Thr Ser Glu Glu Glu Glu Ser Asp Glu Glu Thr Gly Ala Arg
 85 90 95
 Lys Phe Leu Lys Asp Val Ala Ser Asp Ser Glu Gly Arg Arg Arg Lys
 100 105 110
 Arg Leu Xaa Xaa Arg Cys Xaa Lys Cys Xaa Xaa Xaa Lys Asn Trp Met
 115 120 125
 Lys Leu Glu Ile Thr Ile Xaa Leu Asn Glu Asn
 130 135

<210> 30540

<211> 231

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (61)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30540

Ala Met Val Ala Pro Thr Ser Gln Ala Ala Pro Phe His Tyr Ala Ala
 1 5 10 15
 Glu Val Tyr Arg Ala Leu Arg Thr Ala Asn Glu Ser Glu Asn Ser Ser
 20 25 30
 Leu Asn Lys Thr Ile Pro Pro Gly Ile Gln Gln Gln Gln Gln Ala Glu
 35 40 45
 Asp Gly Ser Lys Gln Arg Ala Ala Gln Ala Ala His Xaa Gln Ser Ala
 50 55 60
 Ala Gln Asn Ala Tyr Ser Met Gln Met Asn Gln Phe His Thr Pro Ser
 65 70 75 80
 His Gly Gln Pro Pro Pro Met Tyr Asn Gly Met Phe Ala Gly His Gln
 85 90 95
 Gln Gly Ala His Pro Pro Tyr Pro Ala Gln Pro Pro Gly Tyr Gly His
 100 105 110
 Gln Met Asn Leu Met Pro Gly Gln Met Pro Gln Ser Gln Tyr Ala Pro
 115 120 125
 Ser Gln Ser Leu Tyr Ala Gln Ala Thr Thr Arg Ala Gly Arg Gln Arg
 130 135 140
 Ala Ser Thr Met Asp His Gln Gly Gly Gly Ile Pro Pro Thr Ile Gln
 145 150 155 160
 Arg Val Ala Ser His Leu Asp Pro Asn Ala Pro Ile Arg Leu Gln Pro
 165 170 175
 Ser Pro Ala Tyr Tyr Pro Pro Pro Pro Asp Gly Tyr Val Asp Asn Asn
 180 185 190
 Ala Gln Arg Arg Arg Gly Ser Arg Ala Gly Ala Gly Gln Arg Asn Arg
 195 200 205
 Asp Phe Ile Arg Thr Leu Glu Asp Gly Val Leu Gly Gly Asp Gly Tyr
 210 215 220
 Met Asn Gln Ser Gln Trp His
 225 230

<210> 30541

<211> 235

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (224)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30541

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Thr Asp Ser Ser Ser Tyr Ser Ser Ala Ile Asp Met Trp Ser Leu Gly
1          5          10          15
Cys Ile Val Val Glu Leu Phe Leu Gly Leu Pro Leu Phe Pro Gly Ser
          20          25          30
Ser Glu Tyr Asn Gln Val Cys Arg Ile Val Glu Met Leu Gly Leu Pro
          35          40          45
Pro Thr Trp Met Leu Glu Met Gly Lys Gln Ser Gly Glu Phe Phe Glu
          50          55          60
Lys Thr Gln Asp Glu Phe Gly Arg Lys Thr Tyr Arg Leu Lys Ser Leu
          65          70          75          80
Glu Gln Tyr Ser Arg Glu His Asn Thr Lys Glu Gln Pro Ser Lys Lys
          85          90          95
Tyr Phe Gln Ala Ser Thr Leu Glu Glu Ile Ile Arg Ser Tyr Pro Met
          100          105          110
Pro Arg Lys Asn Met Lys Gln Ala Glu Ile Glu Arg Gly Ser Phe Leu
          115          120          125
Gln Thr Thr Ile Ser Phe His Ser Leu Thr Ser Arg Pro Glu Leu Asn
          130          135          140
Asn Arg Val Ala Phe Ile Asp Phe Val Arg Gly Leu Leu Ser Ile Asn
          145          150          155          160
Pro Leu Glu Arg Trp Ser Pro Gln Gln Ala Lys Leu His Pro Phe Ile
          165          170          175
Thr Gln Gln Lys Phe Thr Gly Pro Phe Val Pro Pro Met Asn Leu Lys
          180          185          190
Ile Pro Arg Ser Thr Lys Pro Tyr Arg Leu Glu Tyr Ser Ser Asn Ser
          195          200          205
Arg Leu Arg Met Val Ala Asn Ser Glu Gln Pro Lys Arg His Met Xaa
          210          215          220
Ser Gln Arg Pro Arg Met His Ile Arg Cys Lys
          225          230          235

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<210> 30542

<211> 140

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (12), (31)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30542

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Ala Asn Ser Asp Ser Tyr Gln Gln Arg Met Gln Xaa Asp Leu Pro Gly
1          5          10          15
Val Phe Ser Ala Ser Pro Val Ala Asp Asn Val Arg Thr Trp Xaa Val
          20          25          30
Leu His Ser Ser Arg Phe Ile Arg Thr Ser Glu Glu Cys Gly Asn Gly
          35          40          45

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11613

Val	Thr	Asp	Ile	Ser	Val	Cys	Arg	Asn	Ala	Val	Ile	Ile	Gly	Pro	Ala
50						55					60				
Asp	Thr	Pro	Phe	Glu	Asp	Gly	Thr	Phe	Arg	Leu	Val	Met	His	Phe	Glu
65					70					75					80
Glu	Gln	Tyr	Pro	Asn	Lys	Pro	Pro	Gly	Val	Lys	Phe	Ile	Ser	Gln	Met
				85					90					95	
Phe	His	Pro	Asn	Val	Tyr	Gly	Thr	Gly	Glu	Leu	Cys	Leu	Asp	Ile	Leu
			100					105					110		
Gln	Asn	Arg	Trp	Ser	Pro	Thr	Tyr	Asp	Val	Ala	Ala	Ile	Leu	Thr	Ser
		115					120					125			
Ile	Gln	Arg	Tyr	Val	Glu	Tyr	Tyr	Tyr	Thr	Thr	His				
	130					135					140				

<210> 30543

<211> 85

<212> PRT

<213> A.fumigatus

<400> 30543

Gln	Ile	Ile	Trp	Ala	Arg	Leu	Glu	His	His	Gln	Gly	Phe	Val	Cys	Ser
1				5					10					15	
Val	Arg	Arg	His	Met	Phe	Glu	Asp	Thr	His	Arg	Tyr	Cys	Thr	Val	Val
			20					25					30		
Ala	Arg	Phe	Arg	Pro	Gln	Asn	Lys	Val	Glu	Leu	Ala	Ser	Gly	Gly	Glu
		35					40					45			
Pro	Ile	Val	Glu	Phe	Glu	Asn	Glu	Gln	Ser	Cys	Lys	Ile	Asn	Val	Ser
	50					55					60				
Leu	Pro	Ser	Arg	Leu	Met	Lys	Gly	Lys	Val	Cys	Trp	Arg	Leu	Lys	Ile
65				70						75					80
Leu	Thr	Arg	Glu	Arg											
				85											

<210> 30544

<211> 312

<212> PRT

<213> A.fumigatus

<400> 30544

Ser	Lys	Glu	Gly	Ser	Gly	Ala	Phe	Thr	Phe	Asp	Arg	Val	Phe	Pro	Met
1				5					10					15	
Asp	Ser	Lys	Gln	Thr	Asp	Ile	Phe	Asp	Tyr	Ser	Ile	Arg	Pro	Thr	Val
			20					25					30		
Asp	Asp	Ile	Leu	Asn	Gly	Tyr	Asn	Gly	Thr	Val	Phe	Ala	Tyr	Gly	Gln
		35					40					45			
Thr	Gly	Ala	Gly	Lys	Ser	Tyr	Thr	Met	Met	Gly	Ser	Asp	Ile	Asp	Asp
	50					55					60				
Pro	Glu	Gly	Lys	Gly	Ile	Pro	Arg	Ile	Val	Glu	Gln	Ile	Phe	Ala	
65				70					75					80	
Ser	Ile	Leu	Thr	Ser	Pro	Ser	Asn	Ile	Glu	Tyr	Thr	Val	Arg	Val	Ser
				85					90					95	
Tyr	Met	Glu	Ile	Tyr	Met	Glu	Arg	Ile	Arg	Asp	Leu	Leu	Val	Pro	Gln
			100					105					110		
Asn	Asp	Asn	Leu	Pro	Val	His	Glu	Glu	Lys	Ser	Arg	Gly	Val	Tyr	Val
		115					120					125			
Lys	Gly	Leu	Leu	Glu	Val	Tyr	Val	Ser	Ser	Val	Gln	Glu	Val	Tyr	Glu
	130					135					140				

Val Met Arg Arg Gly Gly Ala Ala Arg Ala Val Ala Ala Thr Asn Met
 145 150 155 160
 Asn Gln Glu Ser Ser Arg Ser His Ser Ile Phe Val Val Thr Val Ser
 165 170 175
 Gln Lys Asn Leu Glu Thr Gly Ser Ala Lys Ser Gly Gln Leu Phe Leu
 180 185 190
 Val Asp Leu Ala Gly Ser Glu Lys Val Gly Lys Thr Gly Ala Ser Gly
 195 200 205
 Gln Thr Leu Glu Glu Ala Lys Lys Ile Asn Lys Ser Leu Ser Ala Leu
 210 215 220
 Gly Met Val Ile Asn Ala Leu Thr Asp Gly Lys Ser Thr His Ile Pro
 225 230 235 240
 Tyr Arg Asp Ser Lys Leu Thr Arg Ile Leu Gln Glu Ser Leu Gly Gly
 245 250 255
 Asn Ser Arg Thr Thr Leu Ile Ile Asn Cys Ser Pro Ser Ser Tyr Asn
 260 265 270
 Asp Ala Glu Thr Ile Ser Thr Leu Arg Phe Gly Val Arg Ala Lys Ala
 275 280 285
 Ile Lys Asn Lys Ala Lys Val Asn Ala Glu Leu Thr Phe Gly Leu His
 290 295 300
 His Gly Ala Gly Arg Val Arg Ala
 305 310

<210> 30545

<211> 224

<212> PRT

<213> A.fumigatus

<400> 30545

Gly His Leu Ser Phe Thr Gly Ile Leu Leu Leu Ser Ser Thr Thr Leu
 1 5 10 15
 Asp Asn Arg Val Asp Ile Arg Glu Val Asn Leu Arg Ala Asp Thr Leu
 20 25 30
 Cys Val Lys Ile Glu Gly Lys Ser Asp Gln Ile Asp Ile Thr Ser Ser
 35 40 45
 Leu Thr Ile Ser Glu Lys Ser Ser Phe Asp Thr Leu Ser Thr Ser His
 50 55 60
 Leu Ser Gln Leu Gly Gly Gly Asn Ser Thr Ala Thr Val Val Val Gly
 65 70 75 80
 Met Asp Arg Asp Asp Lys Leu Leu Ser Leu Arg His Val Pro Ala Glu
 85 90 95
 Ile Leu Asn Leu Val Cys Lys Tyr Val Trp Arg Cys His Leu His Cys
 100 105 110
 Cys Trp Gln Ile Glu Tyr Tyr Gly Ala Phe Phe Gly Arg Ala Pro Ser
 115 120 125
 Ser Leu Asp Gly Leu Ala Asn Leu Asp Cys Glu Leu Arg Leu Gly Val
 130 135 140
 Gly Glu Gly Phe Gly Arg Lys Leu Glu Leu Pro Leu Gly Thr Ser His
 145 150 155 160
 Leu Trp Ile Val Leu Gly Tyr Arg Ala Gly Val Leu Gly Ala Ser Tyr
 165 170 175
 Gly Asn Leu Lys Thr Leu Phe Ala Gly Gly Ser Glu Asn Tyr Ser Ala
 180 185 190
 Glu Thr Arg Ala Gly Ser Gln Val Asp Val Glu Asp Ser Phe Leu Cys
 195 200 205
 Ala Phe Glu Gly Ile Asp Ser Ala Thr Asp Asp Phe Phe Ser Ala Arg

11615

210

215

220

<210> 30546
 <211> 134
 <212> PRT
 <213> A.fumigatus

<400> 30546
 Ala Ser Ser Ala Ala Ala Thr Ala Gln Pro Arg Ser Leu Trp Gly Trp
 1 5 10 15
 Thr Glu Thr Thr Asn Phe Ser Leu Ser Val Met Phe Arg Gln Lys Tyr
 20 25 30
 Ser Thr Trp Ser Ala Asn Thr Phe Gly Val Val Ile Ser Thr Val Ala
 35 40 45
 Gly Arg Leu Asn Ile Met Gly Leu Ser Ser Val Gly Pro Gln Ala Ala
 50 55 60
 Leu Thr Ala Ser Gln Ile Trp Thr Ala Asn Ser Gly Ser Val Ser Glu
 65 70 75 80
 Lys Val Ser Gly Glu Asn Ser Asn Cys His Trp Val Pro Ala Ile Ser
 85 90 95
 Gly Ser Ser Leu Val Ile Glu Arg Ala Tyr Leu Val His Leu Thr Ala
 100 105 110
 Ile Ser Arg Leu Cys Ser Arg Val Val Pro Lys Thr Ile Arg Arg Lys
 115 120 125
 His Gly Leu Val Ala Arg
 130

<210> 30547
 <211> 150
 <212> PRT
 <213> A.fumigatus

<400> 30547
 Pro Val Gly Cys Asn Val Val Val Asp Gln Val Glu Ala Arg Val Arg
 1 5 10 15
 Leu Glu Val Val Arg Leu Leu Glu Glu Leu Asp Asp Phe Leu Gly Pro
 20 25 30
 Gln Leu Pro Val His Gly Phe Gly Leu Leu Leu Asn Asp Leu Ala Glu
 35 40 45
 Leu Asp Leu Gln Ser Ala Arg Glu Ile Gln Leu Gln Thr Ala Gln Asp
 50 55 60
 Asp Pro Gly Gly Thr Thr Leu Ala Ala Leu Gly Val Asp Thr Asp Asp
 65 70 75 80
 Ser Leu Val Val Pro Pro Asn Val Leu Arg Ile Gln Arg Glu Val Trp
 85 90 95
 Asp Asp Pro Phe Val Val Val Gly Gly Val Gly Thr Phe Ala Gln Leu
 100 105 110
 Glu Ser Leu Leu Asp Ser Val Leu Val Thr Ala Ala Glu Arg Ala Asp
 115 120 125
 Asn Gln Leu Thr Thr Val Gly Pro Ser Phe Ile His Arg Asn Leu Val
 130 135 140
 Ala Leu Phe His His Pro
 145 150

<210> 30548
 <211> 275

<212> PRT

<213> A.fumigatus

<400> 30548

Asp Gly Asp Gln Lys Phe Arg Phe Phe Lys Met Leu Val Asp Ile Gly
 1 5 10 15
 Tyr Thr Glu Ile Glu Val Ser Phe Pro Ser Ala Ser Gln Thr Asp Phe
 20 25 30
 Asp Phe Thr Arg Arg Leu Val Lys Thr Pro Gly Val Val Pro Asp Asp
 35 40 45
 Val Trp Leu Gln Val Leu Ser Pro Cys Arg Glu Glu Ile Ile Arg Arg
 50 55 60
 Thr Val Asp Ser Leu Lys Ser Ala Lys Lys Ala Ile Leu His Ile Tyr
 65 70 75 80
 Leu Ala Thr Ser Pro Cys Phe Arg Arg Ile Val Phe Gly Thr Thr Arg
 85 90 95
 Glu Gln Ser Leu Glu Ile Ala Val Arg Cys Thr Lys Tyr Ala Arg Ser
 100 105 110
 Ile Thr Lys Asp Asp Pro Glu Met Ala Gly Thr Gln Trp Gln Phe Glu
 115 120 125
 Phe Ser Pro Glu Thr Phe Ser Asp Thr Glu Pro Glu Phe Ala Val Gln
 130 135 140
 Ile Cys Glu Ala Val Lys Ala Ala Trp Gly Pro Thr Glu Glu Ser Pro
 145 150 155 160
 Ile Ile Phe Asn Leu Pro Ala Thr Val Glu Met Thr Thr Pro Asn Val
 165 170 175
 Phe Ala Asp Gln Val Glu Tyr Phe Cys Arg Asn Met Thr Glu Arg Glu
 180 185 190
 Lys Phe Val Val Ser Val His Pro His Asn Asp Arg Gly Cys Ala Val
 195 200 205
 Ala Ala Ala Glu Leu Ala Gln Met Ala Gly Ala Gln Arg Val Glu Gly
 210 215 220
 Thr Leu Phe Gly Asn Gly Glu Arg Thr Gly Asn Val Asp Leu Val Thr
 225 230 235 240
 Leu Ala Leu Asn Leu Tyr Thr Gln Gly Val Ser Pro Gln Val Asp Phe
 245 250 255
 Ser Asp Ile Asn Ser Val Ile Lys Gly Gly Gly Arg Glu Gln Gln Asp
 260 265 270
 Ser Cys Glu
 275

<210> 30549

<211> 348

<212> PRT

<213> A.fumigatus

<400> 30549

Arg Arg Glu Arg Ser Leu Ser Ser Leu Ser Ile Pro Thr Thr Thr Val
 1 5 10 15
 Ala Val Leu Leu Pro Pro Pro Ser Trp Leu Arg Trp Leu Val Leu Ser
 20 25 30
 Val Ser Lys Glu Leu Phe Ser Glu Met Val Arg Glu Leu Val Met Ser
 35 40 45
 Ile Trp Ser Leu Leu Pro Ser Ile Phe Thr His Arg Val Ser Ala Leu
 50 55 60
 Lys Leu Thr Ser Arg Ile Ser Thr Arg Leu Ser Arg Val Val Glu Glu

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65		70		75		80
Ser Asn Lys Ile Pro Val Asn Glu Arg Trp Pro Tyr Gly Gly Gln Leu						
	85			90		95
Val Val Cys Ala Phe Ser Gly Ser His Gln Asp Ala Ile Lys Lys Gly						
	100			105		110
Phe Lys Leu Arg Glu Ser Ala Asn Ala Thr Asp Asp Asp Glu Trp Val						
	115			120		125
Ile Pro Tyr Leu Pro Leu Asp Pro Gln Asp Ile Gly Arg Asn Tyr Glu						
	130			135		140
Ala Val Ile Arg Val Asn Ser Gln Ser Gly Lys Gly Gly Ala Ala Trp						
	145			150		155
Val Ile Leu Arg Ser Leu Glu Leu Asp Leu Pro Arg Ala Leu Gln Val						
	165			170		175
Glu Phe Ser Lys Ile Val Gln Lys Lys Thr Glu Ala Val Asn Arg Glu						
	180			185		190
Leu Arg Pro Lys Glu Ile Val Glu Leu Phe Glu Glu Ala Tyr His Leu						
	195			200		205
Lys Ser Asn Pro Arg Phe Asn Leu Val Asp Tyr Asn Ile Thr Thr Asp						
	210			215		220
Arg Ser Gln Ser Pro Ala Pro Pro Glu Pro Gly Lys Ala Leu Asn Thr						
	225			230		235
Lys Asn Leu Lys Arg Arg Phe Thr Gly Ile Ile Glu Ile Asp Asn Ile						
	245			250		255
Gln His Ala Ile Thr Gly Val Gly Pro Gly Ala Ile Ser Ser Leu Ala						
	260			265		270
Asn Ala Leu Ser Thr Leu Gly Ile Asp Leu Asp Val Ile Asp Tyr Lys						
	275			280		285
Glu His Ser Ile Gly Leu Gly Arg Asp Val Lys Ala Ala Thr Tyr Leu						
	290			295		300
Gln Cys Thr Ala Ala Gly Ser Lys Glu Gln Val Trp Gly Val Gly Ile						
	305			310		315
His Gln Asp Val Val Gln Ala Ser Leu Ile Ala Leu Leu Ser Ala Ala						
	325			330		335
Ser Ser Val Arg Phe Leu Leu His Phe Ser Ser Pro						
	340			345		

<210> 30550

<211> 62

<212> PRT

<213> A.fumigatus

<400> 30550

Phe Asp Arg Leu Lys Asp Pro Ser Lys Lys Tyr Lys Pro Phe Lys Pro						
1	5			10		15
Leu His Leu Pro Asn Arg Gln Trp Pro Asp Lys Val Ile Asp Lys Pro						
	20			25		30
Pro Arg Trp Leu Ala Thr Asp Leu Arg Asp Gly Asn Gln Ser Leu Pro						
	35			40		45
Asp Pro Met Val Arg Thr Ser Phe Ile Phe Phe Gly Arg Leu						
	50			55		60

<210> 30551

<211> 97

<212> PRT

<213> A.fumigatus

<400> 30551

Ser Pro Ser Ser Ala Leu Arg Pro Arg Tyr Val Ser Tyr Tyr Thr Phe
 1 5 10 15
 Pro Pro Leu Lys Ile Ser Ile Ile Ser Asn Arg Leu Leu Val Gln Phe
 20 25 30
 Leu Thr Ser Arg Ala Gly Ser Pro Ala Pro Phe Arg Pro Gln Arg Ser
 35 40 45
 Asn Thr Leu Thr Asp Glu Asp Leu Gln Ala Leu Glu Gln Leu Gly Ser
 50 55 60
 Ser Asn Ala Ala Ala Ile Thr Ala Ser Lys Leu Thr Thr Asn Asp Ser
 65 70 75 80
 Ala Lys Pro Lys Val Asp Leu Asp Ala Leu Thr Ala Gln Ala Asn Ser
 85 90 95
 Gln

<210> 30552

<211> 305

<212> PRT

<213> A.fumigatus

<400> 30552

Thr Ile His Phe Val Leu Pro Ile Phe Phe Tyr Leu Leu Ser Phe Pro
 1 5 10 15
 Phe Leu Ile Gln Pro Leu Val Ile Pro Asp Met Ala Ser Tyr Ser Thr
 20 25 30
 Cys Ala Glu Val Ser Pro Leu Cys Pro Val Glu Ala Thr Thr Tyr Gly
 35 40 45
 Tyr Tyr Pro Asn Leu Ala Gly Asn Ile Phe Phe Ala Val Phe Phe Gly
 50 55 60
 Ile Leu Ala Leu Phe Gln Leu Gly Ile Gly Ile His Tyr Arg Thr Trp
 65 70 75 80
 Thr Phe Met Val Ala Val Ala Val Gly Ala Ile Leu Glu Leu Ala Gly
 85 90 95
 Tyr Ile Gly Arg Val Leu Met His Arg Asn Pro Trp Asp Ser Ser Ala
 100 105 110
 Phe Lys Leu Gln Ile Val Cys Leu Val Leu Ala Pro Thr Phe Val Ala
 115 120 125
 Ala Gly Ile Tyr Leu Thr Leu Lys His Ile Ile Leu Ala Leu Gly Pro
 130 135 140
 Glu His Ser Arg Leu Lys Pro Ala Leu Phe Thr Trp Ile Phe Ile Gly
 145 150 155 160
 Cys Asp Val Gly Ser Leu Ile Leu Gln Ala Ala Gly Gly Gly Val Ala
 165 170 175
 Ala Ala Ala Gly Asn Thr Asn Val Ser Leu Leu Lys Ala Gly Asp Asp
 180 185 190
 Ile Ile Ile Ala Gly Ile Ala Phe Gln Val Ala Thr Met Ser Val Cys
 195 200 205
 Gly Phe Leu Gly Leu Glu Phe Phe Ile Arg Tyr Ser Lys Arg Gly Ala
 210 215 220
 Gly Leu Ser Gly Glu Lys Thr Ser Val Gly Arg Asn Ile Lys Trp Val
 225 230 235 240
 Ile Val Gly Glu Val Phe Ala Tyr Ile Thr Val Leu Ile Arg Cys Ile
 245 250 255
 Tyr Arg Tyr Val Tyr Thr Phe Ser Arg Leu Pro Ser Arg Ser Ser Cys
 260 265 270

11619

Arg Thr Leu Asn Met Ala Thr Ser Ile Pro Glu Met Ala Gly Gly Trp
 275 280 285
 Gly Asn Pro Leu Met Gln Lys Glu Asn Glu Phe Leu Val Leu Asp Gly
 290 295 300
 Met
 305

<210> 30553
 <211> 146
 <212> PRT
 <213> A.fumigatus

<400> 30553
 Tyr Ser Leu Ala Val Ser Leu Leu Ser Leu Ile Arg Pro Pro Phe Val
 1 5 10 15
 Ser Val Leu Arg Ala Lys Glu Gln Gly Val Arg Arg Leu Ser Val Leu
 20 25 30
 Val Thr Glu Pro Lys Leu Phe Ala Thr Cys Ile Asp His Cys Trp Leu
 35 40 45
 Ser Asp His Ile Ala Gly Ser Gln Leu Lys Met Ala Phe Leu Arg Thr
 50 55 60
 Pro Ile Val Leu Leu Leu Thr Gln Ile Leu Leu Phe Leu Gly Leu Val
 65 70 75 80
 Asn Ala Val Pro Thr Pro Glu Ser Leu Asp Val His Gly Asn Leu Ala
 85 90 95
 Arg Asp Thr Ala Ser Ser Phe Trp Val Ala Asn Ile Lys Arg Gln Gly
 100 105 110
 Ala Val Ala Phe Gly Gln Ser Ser Gly Tyr Gln Val Tyr Arg Asn Val
 115 120 125
 Lys Asp Phe Gly Ala Lys Gly Lys Ser Pro Ser Thr Glu Thr Arg Val
 130 135 140
 Phe Ser
 145

<210> 30554
 <211> 432
 <212> PRT
 <213> A.fumigatus

<400> 30554
 Val Ser Phe Tyr Arg Asp Gln Ser Ile Phe Leu Thr Glu Asn Val Gly
 1 5 10 15
 Asp Gly Val Thr Asp Asp Thr Ala Ala Ile Asn Gln Ala Ile Ser Ser
 20 25 30
 Gly Asp Trp Cys Gly Lys Gly Cys Asp Ser Ser Thr Thr Thr Pro Ala
 35 40 45
 Leu Val Tyr Phe Pro Pro Gly Thr Tyr Val Val Ser Lys Pro Ile Ile
 50 55 60
 Gln Tyr Tyr Tyr Thr Gln Ile Val Gly Asp Ala Val Asp Leu Pro Val
 65 70 75 80
 Ile Lys Ala Ser Ala Asp Phe Thr Gly Met Ala Val Ile Asp Ala Asp
 85 90 95
 Pro Tyr Glu Asn Asp Gly Ser Asn Trp Tyr Thr Asn Gln Asn Asn Phe
 100 105 110
 Phe Arg Ala Ile Arg Asn Leu Val Ile Asp Leu Arg Ala Met Pro Met
 115 120 125

Asn Ser Gly Ala Gly Ile His Trp Gln Val Gly Gln Ala Thr Ser Leu
 130 135 140
 Gln Asn Ile Arg Phe Glu Met Ile Arg Gly Gly Gly Asp Ala Asn Lys
 145 150 155 160
 Gln Gln Gly Ile Phe Met Asp Asn Gly Ser Gly Gly Phe Met Ser Asp
 165 170 175
 Leu Thr Phe Asn Gly Gly Asn Tyr Gly Met Phe Val Gly Asn Gln Gln
 180 185 190
 Phe Thr Thr Arg Asn Leu Ser Phe Asn Asp Cys Asn Thr Ala Val Phe
 195 200 205
 Met Asn Trp Asn Trp Ala Trp Thr Phe Lys Ser Ile Ser Ile Asn Asn
 210 215 220
 Cys Gln Val Gly Leu Asn Met Ser Asn Ala Pro Gln Asn Gln Thr Val
 225 230 235 240
 Gly Ser Val Leu Leu Asp Ser Ser Val Thr Asn Thr Pro Thr Gly
 245 250 255
 Val Val Thr Ala Phe Thr Gln Asp Ser Ile Pro Val Gly Gly Gly Val
 260 265 270
 Leu Ile Leu Glu Asn Val Asp Phe Thr Gly Ser Asn Val Ala Val Ala
 275 280 285
 Gly Ile Ser Gly Asn Thr Ile Leu Lys Gly Gly Ser Val Val Ala Ser
 290 295 300
 Trp Ile Gln Gly Asn Thr Tyr Ser Pro Ala Asn Ser Leu Asn Lys Arg
 305 310 315 320
 Ala Thr Gln Gly Lys Val Arg Val Val Thr Glu Thr Val Val Glu Thr
 325 330 335
 Val Leu Ala Cys Pro Ala Gln His Ser Glu Thr Leu Glu Ser Ala Pro
 340 345 350
 Ala Arg Thr Ala Thr Ala Ala Ala Ser Thr Glu Ala Arg Gln Ser Asn
 355 360 365
 Ala Asp Ala Tyr Glu Ser Thr Gln Val Ala Gly Gln Pro Ser Ala Ala
 370 375 380
 Lys Thr Thr Pro Val Val Tyr Pro Thr Leu Ser Gly Gly Leu Ser Lys
 385 390 395 400
 Pro Gly Phe Ser Ser Gly Ser Thr Ile Ser Ser Gln Gly Pro Ser Ser
 405 410 415
 Gly Asn Met Pro Ser Ser Pro Arg Gly Trp Lys Asp Gln Gly Gly Leu
 420 425 430

<210> 30555

<211> 82

<212> PRT

<213> A.fumigatus

<400> 30555

Leu Lys Gln Asp Val Leu Gly Asp Val Leu His Val Leu Tyr Pro Val
 1 5 10 15
 Asp Gly Phe Asp Ser His Ile Asp Gly His Asp Tyr Leu Asp Asp Cys
 20 25 30
 Leu Gly Glu Ser Asp Gly Gln Leu Gly Arg Phe Glu Leu Val Tyr Ala
 35 40 45
 Ala Val Gly Asp Asn Glu Leu Leu Tyr Thr Cys Arg Cys Asp Glu Ser
 50 55 60
 Gly Asp Pro Asp Gly Cys Asp Gly Gly Gln His Thr Asp Asp Arg Val
 65 70 75 80
 Gly Gly

<210> 30556
 <211> 142
 <212> PRT
 <213> A.fumigatus

<400> 30556

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Asn Arg Thr Tyr Trp Val Thr Phe Tyr Thr Tyr Tyr Ile Pro Ser Thr
1      5      10      15
Ala Ser Ile Arg Thr Ser Thr Val Thr Thr Thr Ser Thr Ile Val Ser
      20      25      30
Val Lys Ala Thr Asp Ser Ser Asp Ala Ser Ser Ser Phe Thr Arg Leu
      35      40      45
Ser Ala Thr Met Ser Phe Tyr Thr Pro Ala Gly Ala Thr Asn Pro Val
      50      55      60
Thr Pro Thr Asp Val Thr Ala Ala Ser Ile Pro Thr Ile Val Ser Gly
      65      70      75      80
Asp Asp Gly Arg Ser Asn Gly Asn Ser Gly Ser Gly Gly Asn Gly Gly
      85      90      95
Val Gly Ile Ser Val Asn Gly Val Ile Gly Gly Pro Gly Gly Asp Leu
      100      105      110
Asn Ala Ala Asn Ala Thr Arg Arg Phe Gly Trp Glu Thr Ala Leu Thr
      115      120      125
Leu Ser Ile Val Leu Gly Thr Gly Leu Leu Met Ile Tyr Leu
      130      135      140

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<210> 30557
 <211> 226
 <212> PRT
 <213> A.fumigatus

<400> 30557

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Thr Val Tyr Asp Glu Ile Ile Pro Val Gln Thr Ala Thr Asn Arg Thr
1      5      10      15
Pro Ala Asn Leu Trp Leu Met Asp Arg Pro Asp Leu Ile Ala Thr Phe
      20      25      30
Thr Lys Ile Glu Leu Trp Arg Gln Thr Gln Phe Arg Lys Ile Val Tyr
      35      40      45
Ile Asp Cys Asp Val Val Ala Val Arg Ala Pro Asp Glu Leu Leu Thr
      50      55      60
Leu Glu Glu Asp Phe Ala Ala Ala Pro Asp Val Gly Trp Pro Asp Ile
      65      70      75      80
Phe Asn Ser Gly Val Met Val Leu Arg Pro Asn Leu Gln Asp Tyr Tyr
      85      90      95
Ala Leu Lys Ala Leu Ala Glu Arg Gly Ile Ser Phe Asp Gly Ala Asp
      100      105      110
Gln Gly Leu Leu Asn Met His Phe Arg Asn Trp His Arg Leu Ser Phe
      115      120      125
Thr Tyr Asn Cys Thr Pro Ser Ala Asn Tyr Gln Tyr Ile Pro Ala Tyr
      130      135      140
Lys His Phe Gln Ser Thr Ile Ser Leu Ile His Phe Ile Gly Ala Gln
      145      150      155      160
Lys Pro Trp Asn Leu Pro Arg Gln Val Leu Pro Val Asp Ser Pro Tyr
      165      170      175
Asn Gln Leu Leu Gly Arg Trp Trp Ala Ile Tyr Asp Arg His Tyr Arg

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180 185 190
 Pro Val Val Thr Val Gly Phe Asp Val Leu Tyr Cys Asp Thr Phe Pro
 195 200 205
 Ser Ala Thr Phe Ile Ala His Asp Ala Ser Gly Ser Arg Thr Leu Pro
 210 215 220
 Ala Glu
 225

<210> 30558

<211> 381

<212> PRT

<213> A.fumigatus

<400> 30558

Ser Leu Val Tyr Tyr Tyr Ile Arg Ser Leu Ile His Arg Pro Ala Val
 1 5 10 15
 Cys Phe Gly Glu Glu His Ile Arg Ser Pro Ser Ile Leu Ala Thr Phe
 20 25 30
 Asp Ser Cys Lys His Ile Ile Gln Ile Leu Gln Leu Leu Asp Glu Arg
 35 40 45
 Arg Leu Cys Leu Ser Ile Ser Ile Asn Arg Lys Glu Leu Val Phe Thr
 50 55 60
 Ser Gly Leu Gly Leu Leu Trp Gln Asn Thr Gly Leu Lys Arg Glu Ser
 65 70 75 80
 Lys Leu Leu Lys Glu Cys Gln Lys Leu Leu Thr Ala Val Ile Asp Gln
 85 90 95
 Leu Glu Pro Glu Ser Ala Gln Ala Ala Glu Phe Ser Ser Val Ala
 100 105 110
 Ser Leu Leu Val Ser Phe Asp Ser Asp Lys Arg Gly Thr Ser Val Lys
 115 120 125
 Asn Arg Ser Met Ser Pro Pro Ala His Lys Pro Leu Lys Ser Pro Lys
 130 135 140
 Lys Gln Leu Gln Ser Leu Lys Ala Arg Ser Thr Ser Asp Glu Ala Pro
 145 150 155 160
 Asn Gln Ala Thr Glu Ser Leu Ser Arg Arg Ala Thr Ile Ser Gly Thr
 165 170 175
 Ser Leu Gly Val Pro His Arg His Leu Arg Ser Pro Ser Arg Val Ser
 180 185 190
 Leu Pro Ser Glu Asn Tyr Pro Ala Pro Gln Gln Ser Met Asn Arg Ala
 195 200 205
 Tyr Tyr Met Ser Pro Ser Thr Thr His Glu His Thr Gln Thr Met Ser
 210 215 220
 Ser Ser Ala Pro Ser Asn Ala Ala Ala Gly Pro Met Ser Met Ala Asp
 225 230 235 240
 Trp Glu Phe Val Leu Ser Asp Met Asp His Gly Tyr Ser Asn Ile Phe
 245 250 255
 Thr Gly Ile Tyr Gly Gly Lys Glu Cys Gly Glu Asp Ser Gly Pro Phe
 260 265 270
 Ala Ser Leu Thr Thr Gly Cys Val Pro Thr Asp Gln Ser Pro Met Pro
 275 280 285
 Leu Ser Ala Ser Thr Lys Asp Val Pro Gly Leu Ser Pro Glu Ala Trp
 290 295 300
 Ser Ala Ser Ser Asn Ser Asp Met Leu Pro Asn His Glu Val Asn Pro
 305 310 315 320
 Ala Pro Gln Ser Val Leu Ser Phe Ser Asp Glu Ser Ile Asn Ala Glu
 325 330 335

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Asp Ser Leu Pro Tyr His Asp Leu Gln Leu Pro Val Asp Asp Leu Asp
 340 345 350
 Pro Phe Arg Gly Ile Met Ile Pro Ala Val Asp Asp Glu Ile Asp Glu
 355 360 365
 Phe Gly Met Thr His Gly Trp Asp Arg Arg Leu Ala Val
 370 375 380

<210> 30559

<211> 117

<212> PRT

<213> A.fumigatus

<400> 30559

Phe Arg Leu Asp Val Phe Thr Lys Gly Leu Lys Glu Gln Gly Arg Pro
 1 5 10 15
 Leu Ser Val Ile Ser Thr Gln Ala Leu Thr Ala Ser Pro Pro Ala Ile
 20 25 30
 Ser His Ala Arg Ile Asp Gln Ala Ile Lys Thr Thr Pro Arg Leu Val
 35 40 45
 Ser Asp Gln Leu Ile Asn Ile Phe Phe Gln Glu Trp Ala Pro Leu Tyr
 50 55 60
 Pro Val Val His Arg Pro Thr Ile Leu Lys Ala Tyr Glu Lys Tyr Leu
 65 70 75 80
 Ser Asn Thr Glu Ser Val Gln Gly Ser Thr His Asp Met Val Gln Leu
 85 90 95
 Asn Leu Ile Phe Gly Ile Ala Ala Leu Ala Ser Ser Val Arg Asn Cys
 100 105 110
 Val Trp Ile Cys Met
 115

<210> 30560

<211> 273

<212> PRT

<213> A.fumigatus

<400> 30560

Ser Val Ser Ser Pro Ser Thr Leu Asp Gly Ser Arg Thr Arg Gly Met
 1 5 10 15
 Phe Tyr Ser Gln Ser His Ser Phe Thr Ala Ala Leu Thr Gly Leu Pro
 20 25 30
 Val Leu Leu Arg Glu Glu Asp Val Arg Thr Glu Tyr Pro Glu Asp Val
 35 40 45
 Asp Asp Glu Asn Val Thr Glu Thr Asp Phe Leu Pro Thr Leu Pro Gly
 50 55 60
 Glu Ser Thr Arg Ile Ser Ser Ala Leu Ala Leu Phe Gly Ala Ser Arg
 65 70 75 80
 Val Leu Asn Lys Ala Leu Glu Tyr Ile Phe Pro Ser Asp Gly Gly Tyr
 85 90 95
 Glu Val Val Val Ser Lys Met Arg Ser Val Ala Glu Gln Leu Asp Thr
 100 105 110
 Trp Val Lys Thr Leu Pro Ala His Leu Arg Leu Glu Phe Ser Gln Asp
 115 120 125
 Lys Pro Ser Thr Asn Ile Thr Ser Ser Arg Ser Pro Leu Leu Val Ser
 130 135 140
 Cys Leu Gly Arg Arg Ser Gln Arg Leu Cys Ser Thr Leu Thr Ser Ala
 145 150 155 160

Leu Leu Ser Leu Trp Phe Ile Ile Ile Ser Val Leu Ser Phe Ile Ala
 165 170 175
 Pro Leu Ser Ala Leu Val Lys Ser Thr Phe Gly His His Arg Phe Trp
 180 185 190
 Leu His Leu Thr Arg Ala Ser Ile Leu Phe Arg Ser Tyr Ser Cys Leu
 195 200 205
 Thr Lys Gly Val Phe Val Ser Arg Ser Val Ser Thr Gly Lys Ser Trp
 210 215 220
 Cys Ser Arg Leu Val Trp Gly Phe Cys Gly Lys Thr Arg Asp Ser Asn
 225 230 235 240
 Ala Lys Val Asn Ser Ser Arg Ser Ala Arg Ser Cys Ser Pro Arg Leu
 245 250 255
 Leu Ile Asn Ser Asn Pro Ser Arg Leu Arg Gln Gln Gln Ser Ser Ala
 260 265 270
 Arg

<210> 30561
 <211> 120
 <212> PRT
 <213> A.fumigatus

<400> 30561
 Ser Arg Thr Asn Gln Asp Pro Thr Phe Phe Glu Asp Asn Trp Ser Ser
 1 5 10 15
 Thr Leu Glu Ser Leu Ala Asn Ser Ile Ser Ile Ser Thr Leu Gln Cys
 20 25 30
 Tyr Val Leu Ala Gln Met Tyr Cys Met Thr Lys Gly Asp Tyr Thr Gly
 35 40 45
 Leu Leu Arg Tyr Arg Gly Leu Ala Val Gly Leu Cys His Gln Leu Arg
 50 55 60
 Leu His Gln Ser Gln Lys Arg Phe Ser Ser Asn Pro Leu Val Ala Glu
 65 70 75 80
 Thr Arg Lys Lys Val Phe Trp Cys Gln Tyr Val Leu Asp Arg Leu Val
 85 90 95
 Pro Arg Leu Pro Trp Met Val Arg Glu Leu Glu Glu Cys Phe Thr His
 100 105 110
 Lys Ala Thr Val Ser Pro Leu Leu
 115 120

<210> 30562
 <211> 184
 <212> PRT
 <213> A.fumigatus

<400> 30562
 Arg Leu Gln Thr Thr Glu Asn Ser Val Tyr Tyr Ile Thr His Gln Gly
 1 5 10 15
 Val Tyr Arg Lys Met Pro Ser Leu Gln Gln Arg Lys Leu Ala Phe Ile
 20 25 30
 Gly Gly Gly Asn Met Ala Ser Ala Ile Ile Gly Gly Leu Val Ser Gln
 35 40 45
 Asp Met Asn Pro Ala Asn Ile Thr Val Ser Glu Pro Trp Asp Val Asn
 50 55 60
 Arg Glu Lys Ile Ala Lys Leu Gly Val Gln Thr Thr Thr Ser Asn Gly
 65 70 75 80

11625

Glu Ala Ala Ala Asn Ala Asp Ile Val Ile Ile Ala Val Lys Pro Gln
 85 90 95
 Thr Thr Lys Asn Val Cys Gln Glu Leu Ala Thr Ala Trp Ser Gln Arg
 100 105 110
 Thr Ser Leu Pro Val Val Val Ser Ile Ala Ala Gly Ile Thr Leu Asn
 115 120 125
 Ser Met Lys Glu Trp Leu Arg Thr Asn Asp Gly Arg Thr Ala His Ile
 130 135 140
 Val Arg Val Met Pro Asn Thr Pro Ala Leu Val Lys Glu Gly Ala Ser
 145 150 155 160
 Gly Leu Leu Ala Ser Asp Asp Val Thr Ala Glu Glu Lys Glu Leu Ile
 165 170 175
 Gly Ala Leu Leu Gln Ser Val Cys
 180

<210> 30563

<211> 72

<212> PRT

<213> A.fumigatus

<400> 30563

Leu Thr Arg Ile Ser Met Leu Thr Met Met Leu Asn Gly Asn Phe Leu
 1 5 10 15
 Asp Ile Glu Gln Leu Val Gln Ser Gln Gln Tyr Leu Lys Ala Ile Lys
 20 25 30
 Arg Gln Leu Pro Leu Ile Ile Arg Arg Lys Met Val Leu His Met Glu
 35 40 45
 Leu Gln Trp Gln Lys Ile Val Trp Val Gly Lys Glu Gln Gln Gly Gln
 50 55 60
 Ser Ser Asn Asp Gln Ile Thr Arg
 65 70

<210> 30564

<211> 139

<212> PRT

<213> A.fumigatus

<400> 30564

Pro Val Asp Pro Leu Gly Pro Leu Gly Asp Lys Pro Thr Asp Ser Leu
 1 5 10 15
 Ala Pro Val Asn Glu Gln Ala Pro Ile Pro Pro Gln Lys Glu Pro Phe
 20 25 30
 Ala Gly Arg Gly Ala Arg Pro Thr Ser Ser Thr Ser Arg Thr Ser Ser
 35 40 45
 Ala Gly Gly Leu Gly Asp Ser Val His Leu Glu Glu Asp Gly Ala Gly
 50 55 60
 Phe Arg Gly Pro Pro Pro Val Gln Pro Pro Val Asp Ala Asp Gly Thr
 65 70 75 80
 Lys Arg Gln Ser Gln Pro Ser Ile Ser Ile Glu Glu Ala Ala Lys Pro
 85 90 95
 Thr Phe Glu Ile Thr Val Gly Asp Pro His Lys Val Gly Asp Leu Thr
 100 105 110
 Ser Ser His Ile Val Tyr Gln Val Arg Thr Lys Val Thr Ser Pro Leu
 115 120 125
 His Ile Ser Ile His Ala Trp Asp Ala Arg Leu
 130 135

<210> 30565
 <211> 149
 <212> PRT
 <213> A.fumigatus

<400> 30565

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Tyr Ala Ala Gln Thr Thr Ser Lys Ala Tyr Arg Gln Pro Glu Phe Thr
1          5          10          15
Val Ser Arg Arg Tyr Arg Asp Phe Leu Trp Leu Tyr Asn Ser Met His
          20          25          30
Asn Asn Asn Pro Gly Val Val Val Pro Pro Pro Pro Glu Lys Gln Ala
          35          40          45
Val Gly Arg Phe Asp Thr Asn Phe Val Glu Ser Arg Arg Ala Ala Leu
          50          55          60
Glu Arg Met Leu Asn Lys Ile Ala Ala His Pro Ile Leu Gln His Asp
          65          70          75          80
Ala Asp Leu Lys Ile Phe Leu Glu Ser Glu Ser Phe Asn Met Asp Val
          85          90          95
Lys Asn Lys Glu Asn Arg Glu Pro Asp Leu Gly Gln Asn Lys Gly Met
          100          105          110
Phe Ser Ser Phe Gly Ile Ser Val Gly Gly Gly Gly Lys Phe Val Glu
          115          120          125
His Asp Asp Val Ser Phe Leu Trp Phe Ala Tyr Ser Gln Val Ile Lys
          130          135          140
Leu Thr Arg Val Glu
145
  
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<210> 30566
 <211> 167
 <212> PRT
 <213> A.fumigatus

<220>

<221> UNSURE

<222> (154)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30566

```

Trp Phe His Asp Arg Lys Ile Tyr Met Asp Ala Leu Glu Asn Gln Leu
1          5          10          15
Lys Ala Leu Leu Lys Ala Ile Asp Val Val Val Ala Gln Arg Lys Gly
          20          25          30
Leu Ala Glu Ala Ala Gly Asp Phe Ser Ser Ser Leu His Ala Leu Ala
          35          40          45
Ala Val Glu Leu Ser Pro Ala Leu Ser Ser Pro Leu Asp Gly Leu Ser
          50          55          60
Glu Leu Gln Leu Arg Ile Lys Glu Leu Tyr Glu Arg Gln Ala Gln Gln
          65          70          75          80
Asp Val Leu Thr Leu Gly Ile Thr Ile Asp Glu Tyr Leu Arg Ile Ile
          85          90          95
Gly Ser Val Lys Thr Ala Phe Ser Gln Arg Gln Lys Ala Phe His Ser
          100          105          110
Trp His Ala Ala Glu Ser Glu Leu Gln Lys Arg Lys His Thr Gln Glu
          115          120          125
Lys Leu Leu Arg Gln Gly Lys Thr Gln Gln Asp Arg Leu Asn Gln Ala
  
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11627

130		135		140
Asn Ser Asp Val Ala Asp Thr Glu Arg Xaa Cys Thr Arg Pro Ser Cys				
145		150		155
				160
Tyr Ser Thr Thr Trp Ala Leu				
		165		

<210> 30567
 <211> 63
 <212> PRT
 <213> A.fumigatus

<400> 30567

Leu Arg Gly Gly His Pro Pro Phe Asp Gln Arg Leu Arg Tyr Phe Ser				
1	5		10	15
Ser Ala Glu Met Thr Ile Ile Ile Asn His Ile Arg Glu Phe Ile Ser				
	20		25	30
Lys Pro Gln Ile His Ser Gln Pro Ile Arg Phe Phe Thr Asn Thr				
	35		40	45
Gly Phe Leu Gly Gly Gly Glu Ser Phe Phe Phe Leu Val Phe Leu				
50		55		60

<210> 30568
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 30568

Trp Trp Thr Glu Leu Cys Ala Asp Ala His Gln Gln Asn Ile Ile Ile				
1	5		10	15
Ile Ile Thr Leu Ala Asn Ala Ala Ala Ile Leu Asp Leu Cys Leu Trp				
	20		25	30
Val Ile Leu Pro Phe Phe Leu Leu Glu Gly Val Phe Gly Pro Met				
	35		40	45
Gln Leu Arg Val Cys Gly Gly Thr Gln Ala His Met Asn Arg Pro Thr				
50		55		60
Thr Leu Arg Phe				
65				

<210> 30569
 <211> 415
 <212> PRT
 <213> A.fumigatus

<400> 30569

Thr Arg Leu Tyr Arg Ala Thr Ser Leu Phe Leu Ile Asn Leu Ser Val				
1	5		10	15
Leu Ile Val Leu Cys Val Ser Pro Ala Ile Cys Thr Asp Lys Ser Pro				
	20		25	30
Arg Ala Met Glu Thr Thr Glu Pro Ile Phe Ser Ala Val Ser Ser Asn				
	35		40	45
Ala His Gln Leu Tyr Thr Leu Leu Gln Cys Ile Gly Phe Val Pro Lys				
50		55		60
Ala Thr Val Gln Ile Thr Pro Asp Gly Ile Arg Phe Ser Ala Glu Glu				
65		70		75
Thr Arg Val Ile Gln Gly Leu Ala Phe Leu Asp Lys Ala Leu Phe Thr				
	85		90	95

Ser Tyr Thr Phe Asn Pro Pro Lys Thr Pro Asn Asn Glu Ala Asn Asp
 100 105 110
 Ala Asp Asn His Asp Asn Thr Thr Asp Thr Ala Tyr Tyr Pro Cys Phe
 115 120 125
 Val Val Ser Leu Ser Ala Leu Leu Glu Thr Leu Lys Ile Phe Gly Ile
 130 135 140
 Asn Glu Ala Pro Ser Gly Ser Phe Ser Arg Ala Ala Ser Val Gln Pro
 145 150 155 160
 Pro Asn Pro Ala Ala Ser Ser Ala Phe Thr Phe Pro Ala Leu Leu Leu
 165 170 175
 Ala Arg Ser Cys Thr Ile Gln Tyr Thr His Glu Gly Ala Pro Leu Ser
 180 185 190
 Ile Thr Leu Ser Glu Thr Gly Val Lys Thr Thr Cys Asp Leu Thr Thr
 195 200 205
 Tyr Glu Pro Glu Asp Thr Asp Thr Asp Ile Pro Phe Gln Arg Asp Gly
 210 215 220
 Ile Val Met Lys Ile Ile Met Arg Ser Ala Trp Leu His Asn Ala Ile
 225 230 235 240
 Thr Glu Leu Gly Ala Thr Asn Pro Thr Val Leu Lys Leu Ser Ala Ser
 245 250 255
 Ala Thr Arg Glu Pro Phe Phe Ala Leu Ser Gly Ser Gly Gly Pro Leu
 260 265 270
 Ser Glu Ser Thr Val Glu Phe Ser Ile Glu Arg Gln Asn Gln Asn Asn
 275 280 285
 Gly Pro Ser Gln Thr His Lys Val Leu Thr Asp Asp Gly Ser Arg Ala
 290 295 300
 Arg Ala Lys Arg Ala Lys Leu Ala Pro Thr Val Thr Glu Thr Phe Leu
 305 310 315 320
 Val Ser Pro Pro Ser Ser Met Gly Thr Arg Ile Asn Gln Asn Tyr Arg
 325 330 335
 Phe Ser Met Ile Gln Lys Ala Ala Arg Ala Met Ala Val Ala Asn Lys
 340 345 350
 Val Ser Ile Arg Gly Asp Arg Gln Gly Val Leu Ser Leu Gln Phe Met
 355 360 365
 Ile Glu Phe Asp Asn Asn Gly His Gly Gly Ala Pro Gly Gly Met Arg
 370 375 380
 Ser Ser Gly Ala Ser Thr Gly Gly Thr Val Thr Phe Val Asp Phe Arg
 385 390 395 400
 Phe Val Pro Leu Leu Asp Asp Asp Asp Val Asp Leu Glu Met Asp
 405 410 415

<210> 30570

<211> 78

<212> PRT

<213> A.fumigatus

<400> 30570

Glu Arg Arg Lys Tyr Pro Arg Glu Pro Phe Ile Ile Ala His Ser Lys
 1 5 10 15
 Leu Asp Phe His Leu Val Ala Leu Leu Arg Gln Arg Ala Met Arg Gly
 20 25 30
 Met Asn Ile Ser Arg Arg Val Gly Leu Thr Phe Thr Ser Glu Ala His
 35 40 45
 Leu Phe Trp Glu Gly Asn Asp Pro Gln Arg Trp Leu Pro Gln Arg Phe
 50 55 60
 Ile Phe Gly Leu Gln Gln Thr Leu Ser Glu Gly Gln Gln Lys

11629

65

70

75

<210> 30571
 <211> 65
 <212> PRT
 <213> A.fumigatus

<400> 30571
 Leu Ser Phe Val Lys Ile Cys Leu Cys Met Met Ile Ala Ile Ala Ile
 1 5 10 15
 Ile Thr Leu Gly Phe Ile Val Ala Leu Asn Gly Ser Lys Lys Leu Val
 20 25 30
 Gln Leu Gly Phe Gln Val Cys Gln Met Val Phe Glu Tyr Phe Ser Cys
 35 40 45
 Phe Phe Thr Pro Tyr Arg Gly Gln Lys Thr Leu Ser Asp Leu Ser Leu
 50 55 60
 Arg
 65

<210> 30572
 <211> 65
 <212> PRT
 <213> A.fumigatus

<400> 30572
 Ile Val Tyr Leu Arg Ala Asp Pro Ser Ser Pro Val Val Lys Thr Glu
 1 5 10 15
 Ala Phe Ile Arg Ala Ala Glu Glu Met Met Thr Lys Asp Leu Asp Asp
 20 25 30
 Asn Met Lys Ile Gly Gln Asn Gly Ala Glu Trp Ile Ile Lys His Ala
 35 40 45
 Leu Ala Arg His Lys Ser Thr Ala Thr Val Leu Thr His Cys Asn Thr
 50 55 60
 Gly
 65

<210> 30573
 <211> 214
 <212> PRT
 <213> A.fumigatus

<400> 30573
 Met Asp Ser Ile Ser Ser Leu Ala Thr Ser Gly Tyr Gly Thr Ala Leu
 1 5 10 15
 Gly Val Ile Arg Ser Leu Ala Ser Lys Lys Ala Leu Glu His Ala Tyr
 20 25 30
 Cys Thr Glu Thr Arg Pro Tyr Asn Gln Gly Ser Arg Leu Thr Ala Phe
 35 40 45
 Glu Leu Val His Asp Arg Leu Pro Ala Thr Leu Ile Thr Asp Ser Met
 50 55 60
 Val Ala Ala Leu Leu Ala Ser Thr Lys Ala Glu Val Asp Ala Ile Val
 65 70 75 80
 Val Gly Ala Asp Arg Val Ala Ala Asn Gly Asp Thr Ala Asn Lys Ile
 85 90 95
 Gly Thr Tyr Gly Leu Ala Val Leu Ala Lys Tyr His Gly Val Lys Phe
 100 105 110

11630

Leu Val Ala Ala Pro Leu Thr Thr Ile Asp Leu Gly Thr Lys Ser Gly
 115 120 125
 Glu Asp Ile Val Ile Glu Glu Arg Pro Ser Ala Glu Val Thr Lys Ile
 130 135 140
 Arg Gly Pro Val Asp Gly Asp His Pro Ala Asp Ile Val Lys Leu Glu
 145 150 155 160
 Thr Val His Ile Ala Ala Lys Gly Ile Asp Val Trp Asn Pro Ala Phe
 165 170 175
 Asp Val Thr Pro Ser Thr Leu Ile Asp Gly Ile Ile Thr Glu Val Gly
 180 185 190
 Val Ile Glu Lys Glu Ala Asp Gly Gln Phe His Leu Glu Arg Leu Phe
 195 200 205
 Ile Asp Asn Ser Ala Ser
 210

<210> 30574

<211> 83

<212> PRT

<213> A.fumigatus

<400> 30574

Ser Ser Val Phe Arg Ile Gly Val Gly Ser Trp Arg Val Phe Lys Ser
 1 5 10 15
 Asn Phe Ala Gln Leu Tyr Val Phe Asp Leu Ala Gln Gly Val Tyr Phe
 20 25 30
 Ile Thr Pro Ile Ile Ser Ser Leu Ser Gly Met Phe Ser Cys Leu Tyr
 35 40 45
 Ala Ile Ile Gly Trp Leu Leu Ser Phe Trp Thr Ala Phe Leu Trp Leu
 50 55 60
 Ser Gly Tyr Lys Thr Thr Leu Gly Cys Pro Tyr Pro Ala Phe Tyr
 65 70 75 80
 Tyr His Val

<210> 30575

<211> 85

<212> PRT

<213> A.fumigatus

<400> 30575

Phe Glu Asn Thr Pro Arg Thr Asp Ala Asn Ser Glu Tyr Ala Arg Leu
 1 5 10 15
 Thr Ala Gln Gln Asp Lys Cys His Leu Leu Leu Leu Ser Thr Cys Met
 20 25 30
 Leu Arg Gly Val His Val Pro Pro Ile Leu Ser Leu Thr Val Ser Glu
 35 40 45
 Val Tyr Lys Asp Leu His Pro Ile Glu Ser Ser Arg Ser Ser Asn Ser
 50 55 60
 Ser Arg Leu Ala Arg Lys Leu Ala Pro Pro Gly Val Ala Met Leu Gly
 65 70 75 80
 Met Pro Ser Ala Thr
 85

<210> 30576

<211> 93

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (60), (76)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30576

Phe	Pro	Gln	Phe	Val	Arg	Asn	Gly	Lys	Thr	Pro	Lys	Val	Phe	Ile	Pro
1				5					10					15	
Gly	Lys	Pro	Thr	Lys	Lys	Lys	Ser	Trp	Pro	Val	Arg	Trp	Arg	Val	Arg
			20					25					30		
Gln	Leu	Phe	Val	Ser	Val	Ser	Gln	Asp	Arg	Thr	Val	Lys	Ile	Trp	Ser
		35					40					45			
Thr	Glu	Gly	Ser	Val	Val	Ser	Phe	Gly	Xaa	His	Lys	Arg	Gly		
	50					55			60						
Val	Trp	Ser	Val	Arg	Phe	Ala	Ala	Lys	Arg	Ser	Xaa	Gln	Gln	Ala	Glu
65				70					75						80
Ala	Gly	Gln	Thr	His	Arg	Ala	Asp	Ala	Thr	Gly	Leu	Gly			
			85						90						

<210> 30577

<211> 354

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (53)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30577

Thr	Ser	Ser	Leu	Glu	Leu	Ser	Asp	Tyr	Ser	Cys	Leu	Leu	Thr	Phe	Glu
1			5						10					15	
Gly	His	Thr	Asn	Ser	Val	Val	Lys	Val	Ile	Trp	Leu	Pro	Pro	Ser	Glu
			20					25					30		
Leu	Ser	Ile	Lys	Ala	Glu	Asp	Ala	Glu	Glu	Asp	Asp	Thr	Asp	Ala	Ser
		35					40					45			
Ala	Arg	Lys	Ile	Xaa	Thr	Gln	Pro	Lys	Pro	Leu	Ile	Ala	Ser	Ala	Ala
	50					55				60					
Ala	Asp	Gly	Leu	Val	Lys	Ile	Trp	Ser	Pro	Tyr	Thr	Gly	Glu	Val	Glu
65				70					75						80
Thr	Thr	Leu	Asp	Asn	His	Glu	Asp	Arg	Val	Trp	Ala	Leu	Ala	Ser	Pro
			85					90					95		
Thr	Pro	Ser	Gly	Ser	Arg	Ala	Asp	Val	Lys	Ser	Ser	Pro	Ser	Gln	Lys
		100					105						110		
Ala	Ala	Thr	Pro	Tyr	Ala	Leu	Ala	Ser	Gly	Ser	Ala	Asp	Ser	Thr	Val
		115					120					125			
Thr	Phe	Trp	Thr	Asp	Thr	Thr	Ser	Ala	Thr	Tyr	Thr	Ala	Ala	Val	Ser
	130					135					140				
Ala	Asn	Ser	Ala	Arg	Ile	Glu	Gln	Asp	Gln	Lys	Leu	Gln	Asn	Tyr	Ile
145				150					155						160
Arg	Ala	Gly	Ala	Tyr	Arg	Glu	Ala	Ile	Thr	Leu	Ala	Leu	Gln	Leu	Asn
			165					170					175		
His	Pro	Ala	Arg	Leu	Leu	Ser	Ile	Phe	Thr	Thr	Ala	Ile	Asp	Ala	Ala
			180					185					190		

Asp Asn Pro Tyr Ser Ser Asp Ser Asp Lys Asp Glu Arg Val Asn Ser
 195 200 205
 Leu Thr Gly Asp Ala Ser Ile Asp Glu Val Leu Gln Ser Leu Asp Pro
 210 215 220
 Ser Asn Leu Arg Leu Leu Leu Leu Arg Leu Arg Asp Trp Asn Thr Asn
 225 230 235 240
 Ala Arg Thr Ser Arg Val Ala Gln Arg Ile Leu Tyr Ala Leu Phe Arg
 245 250 255
 Ser Tyr Pro Ala Ser Thr Phe Val Glu Leu Ala Thr Ser Ser Met Ala
 260 265 270
 Lys Arg Gly Ser Asp Arg Arg Thr Ala Ala Gly Met Arg Asp Ile Leu
 275 280 285
 Gln Ala Leu Ala Ala Tyr Thr Glu Arg His Tyr Arg Arg Val Glu Glu
 290 295 300
 Leu Thr Asp Glu Ser Phe Leu Val Glu Trp Val Leu Gly Glu Met Asp
 305 310 315 320
 Gly Gly Val Gly Leu Leu Gly Gly Pro Gly Val Ser Ser Thr Ser Glu
 325 330 335
 Ala Asn Gly Asp Gln Val His Glu His Glu Lys Asp Phe Ile Met Leu
 340 345 350
 Gly Val

<210> 30578

<211> 358

<212> PRT

<213> A.fumigatus

<400> 30578

Leu Asn Gln Lys Arg Asp Asp Ala Asn Gly Gly Thr Glu Pro Ser Ser
 1 5 10 15
 Pro Phe Ser Arg Lys Arg Arg Thr Leu Asp Ser Gln Arg Ser Ser Arg
 20 25 30
 Arg Tyr Ser Thr Gly Thr Gly Arg Gly Ile Leu Gly Val Glu Asp Ile
 35 40 45
 Gln Val His Pro Ala Thr Met Arg Gln Glu Ile Ile Ala Ala Ser Arg
 50 55 60
 Asn Arg Phe Asp Asp Val Ser Ser Glu Ser Asp Ser Asp Gln Arg Glu
 65 70 75 80
 Gly Asp Glu Gly Asp Gly Gln Pro Ser Glu Arg Thr Asn Leu Leu Gly
 85 90 95
 Ser Lys Asp Arg Ala Thr Asn Tyr Thr Asp Glu Ser Asp Thr Ala Tyr
 100 105 110
 Lys Arg Gln Glu Pro Ile Gly Asp Asp Ile His Lys Ser His Asn
 115 120 125
 His Ala Gln Pro Lys Pro Lys Glu Gly Lys His Gly His Gly His Gly
 130 135 140
 His Asp Leu Asn Met Arg Gly Val Phe Leu His Val Met Gly Asp Ala
 145 150 155 160
 Leu Gly Asn Ile Gly Val Ile Val Ser Ala Leu Val Ile Trp Leu Thr
 165 170 175
 Asp Tyr Ser Trp Arg Phe Tyr Val Asp Pro Gly Ile Ser Leu Leu Ile
 180 185 190
 Thr Val Ile Ile Leu Ala Ser Ala Ile Pro Leu Cys Lys Ala Ala Ser
 195 200 205
 Arg Ile Leu Leu Gln Ala Val Pro Ala Gly Leu Ser Ile Asp His Ile

210	215	220
Lys Glu Asp Ile Glu Arg Leu Pro Gly Val Ile Gly Ser His His Leu		
225	230	235
His Val Trp Gln Leu Ser Asp Thr Lys Leu Val Ala Ser Ile His Ile		240
	245	250
Gln Val Asp Thr Glu Ile Lys Gly Glu Gly Ser Glu Arg Tyr Met Arg		255
	260	265
Leu Ala Arg Gln Val Arg Lys Cys Leu His Ala Tyr Gly Ile His Ser		270
	275	280
Ser Thr Ile Gln Pro Glu Phe Ala Pro Asp Ser Asp Ala Glu Asp Thr		285
	290	295
Gln Ala Leu Pro Ser Ser Ser Arg Gly Ser Asn Asp Glu Pro Ser Gly		300
305	310	315
Ser Ser Lys Leu Pro Ser Gln Ala Pro Ser Val Arg Asp Gly Asp Pro		320
	325	330
Gln Ala Cys Leu Leu Glu Cys Gly Glu Glu Cys Ala Gln Lys Gly Gln		335
	340	345
Cys Cys Pro Lys Lys Ser		350
355		

<210> 30579
 <211> 75
 <212> PRT
 <213> A.fumigatus

<400> 30579
Leu Phe Ala Pro Arg Tyr Tyr Tyr Cys Pro Val Glu Val Ser Leu Ala
1 5 10 15
Asn Asp Glu Arg Asp Gly Ile Thr Leu Pro Thr Thr Ala Tyr Leu Tyr
20 25 30
Ile Ser Ala Leu Leu Ser Tyr Ser Ser Val Thr Leu Leu Tyr Leu His
35 40 45
Phe Leu Gln His Asp Thr Leu Ile Cys Leu Ser Arg Gln Asn Leu Pro
50 55 60
Ala Leu Leu Leu Cys Tyr Arg Ala Leu Leu Phe
65 70 75

<210> 30580
 <211> 165
 <212> PRT
 <213> A.fumigatus

<400> 30580
Trp Gln Arg Ala Glu Thr Leu Gly Ala Leu Val Asn Gly Val Phe Leu
1 5 10 15
Val Ala Leu Cys Leu Ser Ile Phe Leu Glu Ala Ile Gln Arg Leu Val
20 25 30
Glu Pro Gln Glu Val Lys Asn Pro Lys Leu Val Cys Thr Val Gly Cys
35 40 45
Leu Gly Leu Leu Ser Asn Ile Leu Gly Leu Val Leu Phe His Asp His
50 55 60
Ser His Ala His Gly His Ala Asp Asp His Ser Asn Glu Asp Ile Glu
65 70 75 80
Asp Val Asp Ala Ala Glu Gln Gly Leu Ala His Gly His Gly Glu Thr
85 90 95
Thr Val Ala Asp Lys Arg Ala Ser Thr Ala Thr Val Asn Thr Pro His

11634

100	105	110
Pro Leu Ser Thr Leu Leu Trp	Leu Thr Glu Ser Lys	Ala Arg Arg Cys
115	120	125
Lys Arg Trp Asp Arg Thr Ile	Phe Ser Phe Leu Thr	Glu Ala Pro Asp
130	135	140
Ser Gly Leu Ser Thr Gln Phe	Ser Ser Val Gln His	Gly Asn Trp Thr
145	150	155
Trp Tyr Leu Gly Cys		160
165		

<210> 30581
 <211> 87
 <212> PRT
 <213> A.fumigatus

<400> 30581
Val Val Ile Cys Met Ser Met Gly Val Arg Val Val Met Lys Gln Asp
1 5 10 15
Glu Pro Lys Tyr Ile Arg Lys Glu Ala Gln Ala Ser Asn Ser Ala Asn
20 25 30
Gln Leu Arg Ile Leu His Phe Leu Trp Leu Asp Glu Ser Leu Asp Cys
35 40 45
Phe Glu Glu Asn Gly Gln Thr Gln Arg Asn Glu Glu Asp Thr Val His
50 55 60
Gln Gly Thr Glu Gly Phe Arg Thr Leu Pro Leu Ile Gln Arg Lys Arg
65 70 75 80
Leu Ala Leu Leu Leu Leu Ile
85

<210> 30582
 <211> 67
 <212> PRT
 <213> A.fumigatus

<400> 30582
His Ile Pro Leu Phe Val Ile Leu Phe Glu Ile Ala Thr Leu Tyr Leu
1 5 10 15
Val Arg Leu Lys His Thr Leu Phe Phe Leu Ile Lys Ala Leu Ala Gln
20 25 30
Val Leu Arg Arg Leu Leu Gln Gly Thr Gln His Leu Ala Pro Phe Cys
35 40 45
Asn Asn Asn Arg Asp Ile Ile Cys Arg Ser Ile Val Ser Cys Arg Val
50 55 60
Trp Pro Lys
65

<210> 30583
 <211> 168
 <212> PRT
 <213> A.fumigatus

<400> 30583
Ser Val Ser Asn Lys Ser Thr Asp Val Val Cys Lys His Gly Pro Ala
1 5 10 15
Glu Cys Ile Gly Asp Met Leu Ile Leu Cys Ala Ala Asn Leu Pro Phe
20 25 30

11635

Pro Pro Glu Gly Arg Ser Met Pro Arg Thr Pro Thr Ile Arg Ser Leu
 35 40 45
 Gly Phe Ala Asn Cys Leu Ile Ser Ser Tyr Glu Lys Ile Pro Glu Arg
 50 55 60
 Ser Phe Val Glu Gln Cys Ala Leu Glu His Gly Ile Asp Phe Asp Ala
 65 70 75 80
 Leu Asn Glu Cys Ala Ser Gln Gln Asn Asp Asp Pro Gly His His Gly
 85 90 95
 Gly Asp Lys Asp Pro Leu Ser Gly Ile Ala Leu Leu Arg Lys Ser Ala
 100 105 110
 Leu Tyr Ser Glu Ala Leu Gly Val Arg Thr Ser Cys Thr Val Arg Leu
 115 120 125
 Asp Glu Gln Val Trp Cys Val Arg Asp Asp Gly Leu Trp Lys Asp Cys
 130 135 140
 Ala Gln Gly Gly Arg Gly Ser Gln Ile Ser Val Leu Val Glu Glu Ile
 145 150 155 160
 Glu Arg Ile Trp Arg Glu Arg Asn
 165

<210> 30584
 <211> 104
 <212> PRT
 <213> A.fumigatus

<400> 30584
 His Lys Ser His Ile Ser Val Glu Tyr Ser Asn Asn Met Val Asn Pro
 1 5 10 15
 Asn Gln Lys Thr Gly Ala Glu Thr His Thr Asp Glu Gln Lys Arg His
 20 25 30
 Phe Tyr Asp Ser Leu Thr Glu Asp Gln Lys Lys Lys Gln Thr Phe Gly
 35 40 45
 Glu Trp Val Lys Glu Ala Tyr Asn Asp Gln Tyr Glu Lys Trp Met Pro
 50 55 60
 Trp Leu Glu Glu Gln Tyr Leu Lys Trp Phe Gly Lys Gly Asp Asn Lys
 65 70 75 80
 Ala Ser Tyr Val Ala Lys Gly Lys Lys Ser Pro Phe Leu Ile Tyr Ile
 85 90 95
 Arg Lys Met Thr Leu Ser Ile Ser
 100

<210> 30585
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 30585
 Ala Arg Leu Asp Ser Leu Ser Lys Ser Lys Val Ser Gly Ile Lys Gln
 1 5 10 15
 Ile Asp Gln Val Gln Asp Asp Val His Asn Leu Ala Gly Asn Gln Leu
 20 25 30
 Gly Glu Asn Gly Phe Leu Ala Pro Val Gly Tyr Met Ile Ser Ile Glu
 35 40 45
 Gly Ile Ile Arg Ala Glu Arg Asn Gly Lys Asp Asp Asp Gly Ser Tyr
 50 55 60
 Asn Gly Pro Leu Gly Gly Val Ser Glu
 65 70

<210> 30586
 <211> 82
 <212> PRT
 <213> A.fumigatus

<400> 30586
 Lys Glu Gln Asn Ile Thr Pro Leu Ile Phe Pro Thr Thr Cys Phe Ile
 1 5 10 15
 Gln Thr Leu Leu Ile Met Arg Phe Leu Pro Trp Ala Val Ala Ile Leu
 20 25 30
 Ser Ala Val Cys Val Gln Ala Asn Glu Trp His Ala Tyr Tyr Arg Leu
 35 40 45
 Thr Ser Asp Ala Tyr Gln Ala Lys Phe Asn Asp Leu Val Gly Gln Gly
 50 55 60
 Tyr Arg Leu Asn Ser Val Ser Gly Tyr Asp Arg Asn Gly Gln Pro Asn
 65 70 75 80
 Phe Ala

<210> 30587
 <211> 85
 <212> PRT
 <213> A.fumigatus

<400> 30587
 Thr Cys Leu Pro Leu Gln Asn Thr Ser Leu Pro Gly Thr Thr Trp Thr
 1 5 10 15
 Thr Thr Gly Met Phe Ile Pro Ala Phe Ala Ile Leu Thr Ala Tyr Ile
 20 25 30
 Cys Ser Ile Asn Leu Gln His Tyr Leu Val Val Gln Leu Phe Gly Tyr
 35 40 45
 Arg Ile His Pro Ser Ile Pro Val Lys Asp Val Asn Asn Leu Arg Ile
 50 55 60
 Ala Asp Val Gly Thr Gly Thr Gly Tyr Val Lys Leu Asp Leu Leu Asp
 65 70 75 80
 Gly Ser Phe Ser His
 85

<210> 30588
 <211> 114
 <212> PRT
 <213> A.fumigatus

<400> 30588
 Arg Arg Cys Asn Ala Gly Asp Met Arg Tyr Gly Gly Val Gly Leu His
 1 5 10 15
 Gln Ala Arg Val Ile Ala Ile Asp Pro Val Met Ile Gln Thr Trp Ala
 20 25 30
 Lys Phe Leu Leu Ala Ile Ala Phe Ile Tyr Ile Phe Ser Val Ile Leu
 35 40 45
 Pro Lys Leu Ala Val Leu Ser Leu Tyr Ile Ser Ile Phe Asn Arg His
 50 55 60
 Arg Ala Ser Arg Ile Thr Cys Tyr Val Thr Gly Phe Leu Met Ile Gly
 65 70 75 80
 Asn Cys Ile Gly Cys Ala Ala Ala Gly Phe Ala Val Cys Thr Pro Leu

11637

				85						90					95
Arg	Lys	Leu	Trp	Glu	Pro	Gln	Val	Asp	Gly	His	Cys	Val	Asn	Ile	Asn
				100				105					110		
Ala Trp															

<210> 30589

<211> 244

<212> PRT

<213> A.fumigatus

<400> 30589

Met	Ala	Ala	Ser	His	Thr	Asp	Arg	Ile	Trp	Leu	Thr	Asp	Leu	Ala	Asp
1				5					10					15	
Glu	Phe	Pro	Ala	Thr	Val	Gln	Leu	Asp	Gly	Leu	Asp	Val	Ser	Phe	Asp
			20					25					30		
Ala	Ala	Pro	Pro	Arg	Asp	Trp	Leu	Pro	Pro	Asn	Met	Ser	Leu	His	His
			35				40					45			
Trp	Asp	Ile	Lys	Ala	Lys	Val	Pro	Glu	His	Leu	Val	Gly	Val	Tyr	Asp
			50			55					60				
Val	Val	Asn	Val	Arg	His	Phe	Val	Phe	Val	Leu	Gln	Gln	Ser	Asp	Met
65					70					75				80	
Lys	Gly	Val	Leu	Asp	Asn	Leu	Phe	Lys	Leu	Leu	Ser	Thr	Ser	Asp	Ser
				85					90					95	
Phe	Tyr	Asn	Phe	Arg	Ile	Ser	Asn	Ser	Trp	Phe	Thr	Glu	Pro	Gly	Gly
			100				105						110		
Tyr	Leu	Gln	Trp	Thr	Asp	Leu	Asp	Met	Ser	Ser	Leu	Arg	Val	Glu	Lys
			115				120					125			
Ile	Asn	Pro	Asp	Ile	Lys	Ala	Asp	Ala	Asn	Val	Lys	Leu	Met	Gln	Leu
			130				135					140			
Phe	Gln	Ala	Asn	Asp	Thr	Arg	Leu	Arg	Thr	Ala	Trp	Gly	Ala	Ser	Leu
145					150					155					160
Pro	Ser	His	Phe	Ala	Gln	Ser	Gly	Phe	Thr	Asn	Val	Lys	Ser	Asp	Val
				165					170					175	
Arg	Asp	Ala	Pro	Pro	His	Leu	Ala	Val	Ala	Leu	His	Glu	Cys	Gly	Met
			180					185					190		
Leu	Ala	Thr	Glu	Val	Leu	Ala	Arg	Asn	Lys	Val	Gly	Gly	Asn	Glu	Gln
			195				200					205			
Met	Val	Gln	Gln	Leu	Arg	Gln	Thr	Leu	Ala	Glu	Ala	Ala	Lys	Glu	Thr
			210				215				220				
Arg	Gln	Gly	Ser	Val	Leu	Ala	Leu	Thr	Arg	Leu	Thr	Val	Val	Gly	Gln
225					230					235					240
Lys Pro Ser Gln															

<210> 30590

<211> 84

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222>

(7), (16), (17), (18), (19), (20), (21), (22), (23), (24), (25), (30), (31), (32), (33), (34), (35), (36), (37), (38)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30590

```

Lys Leu Gly Gly Val Gly Xaa Leu Phe Cys Val Gly Trp Gly Gly Xaa
1      5      10      15
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Asp Arg Arg Xaa Xaa Xaa
20      25      30
Xaa Xaa Xaa Xaa Xaa Xaa Asn Lys Lys Lys Val Phe Phe Gly Pro Ser
35      40      45
Pro Pro Trp Gly Leu Tyr Ser Asn Pro Val Ser Cys Met Thr Lys Arg
50      55      60
Pro Thr Gly Ala Pro Pro Gly Leu Gly Ile Pro Leu Val Lys Lys Asn
65      70      75      80
Arg Asp Thr Pro

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<210> 30591

<211> 174

<212> PRT

<213> A.fumigatus

<400> 30591

```

Arg Gln Arg Ala Ala Gln Arg Leu Lys Pro Gln Thr Gly Ala Cys Thr
1      5      10      15
Thr Val Lys Ile Pro Ser Thr Arg Arg Arg Val Ala Pro Pro Gly Phe
20      25      30
Thr Glu Thr Leu Gly Ala Pro Asn Thr Lys Lys Gly Asn Gln Thr Pro
35      40      45
Ala Arg Pro Arg Pro Arg Leu Phe Ala Ser Arg Glu Gly Ala Lys Pro
50      55      60
His Lys Pro Ala Val Arg Pro Glu Glu Thr Ile Pro Ser Gln Thr Ala
65      70      75      80
Ser Val Arg Pro Cys Arg Ala Thr Ala Thr Lys Leu Gly Arg Ile Thr
85      90      95
Val Gly Lys Thr Lys Pro Ala Glu Ala Leu Ala Pro Ala Pro Ala Val
100      105      110
Ala Asp Pro Pro Ala Thr Leu Thr Ala Gln Asp Lys Lys Ile Arg Gly
115      120      125
Leu Leu Lys Lys Ile Arg Ala Ile Glu Glu Leu Lys Met Arg Leu Ala
130      135      140
Ser Gly Glu Lys Leu Glu Asp Thr Gln Val Lys Lys Ile Gln Thr Glu
145      150      155      160
Asp Ala Val Arg Lys Glu Leu Glu Ala Leu Gly Tyr Asn Gly
165      170

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<210> 30592

<211> 159

<212> PRT

<213> A.fumigatus

<400> 30592

```

Val Ala Ser Leu Ser Pro Phe Ala Gly Pro Gly Pro Val Lys Thr Ile
1      5      10      15
Ile Ile Leu Val Glu Met Ser Thr Pro Glu Gln Ser Ser Pro Arg Ser
20      25      30
Pro Leu Arg Ala Ala Gln Arg Pro Thr Arg Val Leu Ala Cys Val Leu
35      40      45

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11639

Cys Gln Gln Arg Lys Val Lys Cys Asp Arg Gln Phe Pro Cys Ala Thr
 50 55 60
 Cys Val Arg Ala Gln Met Gln Cys Val Pro Ala Thr Gln Ala Arg Arg
 65 70 75 80
 Arg Arg Arg Val Pro Glu Arg Glu Leu Leu Asp Arg Ile Arg Arg Tyr
 85 90 95
 Glu Asp Leu Leu Arg Gln Asn Asn Ile Gln Phe Gln Pro Leu His Asn
 100 105 110
 Ser Val Ala Glu Gln Ala Ser Ser Ser Arg Glu Asn Arg Arg Phe Asp
 115 120 125
 Thr Asp His Asp Glu Lys Leu Glu Arg Asp Ser Gln Lys Glu Glu Thr
 130 135 140
 Pro Gly Thr Glu Thr Lys Tyr Glu Ala Lys Ser Ala Ser His Pro
 145 150 155

<210> 30593

<211> 203

<212> PRT

<213> A.fumigatus

<400> 30593

Thr Arg Gln Thr Thr Asp Ala Ser Lys Ile Ser Val Arg Pro Gln Thr
 1 5 10 15
 Asp Pro Arg Ser Leu Ser Pro Ile Leu Gly Val Ala Ile Arg Ile Ala
 20 25 30
 Leu Arg Met Gly Ile His Ser Glu Ser Ser Tyr Ser Arg Cys Thr Ile
 35 40 45
 Leu Glu Gly Glu Met Arg Arg Arg Leu Trp Trp Ser Leu Val Leu Phe
 50 55 60
 Asp Asn Arg Ile Cys Glu Met Ala Asp Tyr Lys Ala Ser Asn Leu Leu
 65 70 75 80
 Pro Thr Trp Asp Cys Lys Ile Pro Leu Asn Val Asn Asp Phe Asp Leu
 85 90 95
 Gln Pro Glu Met Lys Thr Gly Pro Thr Met His Gly Asn Pro Ser Glu
 100 105 110
 Ala Leu Phe Ala Val Val Arg Ser Glu Val Gly Asn Phe Thr Arg Arg
 115 120 125
 Ser Ser Phe His Leu Asp Phe Thr Asn Pro Ala Leu Lys Thr Val Ala
 130 135 140
 Lys Glu Asn Pro Leu Pro Ala Ala Gly Ser Leu Pro Ala Phe Glu Arg
 145 150 155 160
 Met Ile Glu Glu Lys Tyr Phe Ala Ser Cys Asn Pro Glu Asn Pro Leu
 165 170 175
 His Phe Met Thr Ile Trp Thr Thr Arg Gly Gln Leu Ala Lys Asn Arg
 180 185 190
 Leu Val Phe Thr Ala Gly Val Arg Gly Ser Val
 195 200

<210> 30594

<211> 160

<212> PRT

<213> A.fumigatus

<400> 30594

Gln Ser Glu Met Tyr Asp Ile Ala Thr Gln Leu Val Met Lys Trp Ala
 1 5 10 15

Arg	His	Gly	Pro	Thr	Val	Pro	Ile	Met	Val	Thr	Asp	Asp	Phe	Thr	Arg
		20						25					30		
Leu	Thr	Leu	Asp	Thr	Ile	Ala	Leu	Cys	Ala	Met	Gly	Thr	Arg	Phe	Asn
		35					40					45			
Ser	Phe	Tyr	His	Glu	Glu	Met	His	Pro	Phe	Val	Glu	Ala	Met	Val	Gly
	50					55					60				
Leu	Leu	Gln	Gly	Ser	Gly	Asp	Arg	Ala	Arg	Arg	Pro	Ala	Leu	Leu	Asn
65					70					75					80
Asn	Leu	Pro	Thr	Ser	Glu	Asn	Ser	Lys	Tyr	Trp	Asp	Asp	Ile	Ala	Phe
				85				90					95		
Leu	Arg	Asn	Leu	Ala	Gln	Glu	Leu	Val	Glu	Ala	Arg	Arg	Lys	Asn	Pro
		100						105					110		
Glu	Asp	Lys	Lys	Asp	Leu	Leu	Asn	Ala	Leu	Ile	Leu	Gly	Arg	Asp	Pro
	115						120					125			
Lys	Thr	Gly	Lys	Gly	Leu	Thr	Asp	Glu	Ser	Ile	Ile	Asp	Asn	Met	Ile
	130					135					140				
Thr	Phe	Leu	Ile	Ala	Gly	Met	Ser	Cys	Thr	Asn	Leu	Leu	Leu	Thr	Leu
145					150					155					160

<210> 30595

<211> 315

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (259)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30595

Leu	Thr	Ile	Leu	Gly	His	Glu	Thr	Thr	Ser	Gly	Leu	Leu	Ser	Phe	Leu
1			'5						10					15	
Phe	Tyr	Tyr	Leu	Leu	Lys	Thr	Pro	Asn	Ala	Tyr	Lys	Lys	Ala	Gln	Glu
		20						25					30		
Glu	Val	Asp	Ser	Val	Val	Gly	Arg	Arg	Lys	Ile	Thr	Val	Glu	Asp	Met
		35				40						45			
Ser	Arg	Leu	Pro	Tyr	Leu	Asn	Ala	Val	Met	Arg	Glu	Thr	Leu	Arg	Leu
	50					55					60				
Arg	Ser	Thr	Ala	Pro	Leu	Ile	Ala	Val	His	Ala	His	Pro	Glu	Lys	Asn
65					70					75					80
Lys	Glu	Asp	Pro	Val	Thr	Leu	Gly	Gly	Gly	Lys	Tyr	Val	Leu	Asn	Lys
				85					90					95	
Asp	Glu	Pro	Ile	Val	Ile	Ile	Leu	Asp	Lys	Leu	His	Arg	Asp	Pro	Gln
		100						105					110		
Val	Tyr	Gly	Pro	Asp	Ala	Glu	Glu	Tyr	Lys	Pro	Glu	Arg	Met	Leu	Asp
	115						120					125			
Glu	Asn	Phe	Glu	Lys	Leu	Pro	Lys	Asn	Ala	Trp	Lys	Pro	Phe	Gly	Asn
	130					135					140				
Gly	Met	Arg	Ala	Cys	Ile	Gly	Arg	Pro	Phe	Ala	Trp	Gln	Glu	Ala	Leu
145					150					155					160
Leu	Val	Val	Ala	Ile	Leu	Leu	Gln	Asn	Phe	Asn	Phe	Gln	Met	Asp	Asp
				165					170					175	
Pro	Ser	Tyr	Asn	Leu	His	Ile	Lys	Gln	Thr	Leu	Thr	Ile	Lys	Pro	Lys
		180						185					190		
Asp	Phe	His	Met	Arg	Ala	Thr	Leu	Arg	His	Gly	Leu	Asp	Ala	Thr	Lys
		195					200					205			

Leu Gly Ile Ala Leu Ser Gly Ser Ala Asp Arg Ala Pro Pro Glu Ser
 210 215 220
 Ser Gly Ala Ala Ser Arg Val Arg Lys Gln Ala Thr Pro Pro Ala Gly
 225 230 235 240
 Gln Leu Lys Pro Met His Ile Phe Phe Gly Ser Asn Thr Gly Thr Cys
 245 250 255
 Glu Thr Xaa Ala Arg Arg Leu Ala Asp Asp Ala Val Gly Tyr Gly Phe
 260 265 270
 Ala Ala Asp Val Gln Ser Leu Asp Ser Ala Met Gln Asn Val Pro Lys
 275 280 285
 Asp Glu Pro Val Val Phe Ile Thr Ala Ser Tyr Glu Gly Gln Pro Pro
 290 295 300
 Asp Asn Ala Ala His Phe Phe Glu Trp Leu Ser
 305 310 315

<210> 30596

<211> 92

<212> PRT

<213> A.fumigatus

<400> 30596

Tyr Ala Gln Gly Pro Ile Tyr Arg Leu Thr Thr Phe Gly Trp Ser Arg
 1 5 10 15
 Val Phe Val Ser Thr His Glu Leu Val Asp Glu Val Cys Asp Glu Glu
 20 25 30
 Arg Phe Thr Lys Val Val Thr Ala Gly Leu Asn Gln Ile Arg Asn Gly
 35 40 45
 Val His Asp Gly Leu Phe Thr Ala Asn Phe Pro Gly Glu Glu Asn Trp
 50 55 60
 Ala Ile Ala His Arg Val Leu Val Pro Ala Phe Gly Pro Leu Ser Ile
 65 70 75 80
 Arg Gly Met Phe Asp Gly Met Val Pro Asp Gln Pro
 85 90

<210> 30597

<211> 77

<212> PRT

<213> A.fumigatus

<400> 30597

Phe Phe Phe Phe Leu Phe Glu Tyr Arg Leu Val Leu Phe Phe Leu Ile
 1 5 10 15
 Phe Phe Phe Arg Leu Glu Glu Tyr Phe Tyr Phe Tyr Phe Ile Leu Phe
 20 25 30
 Ile Phe Phe Phe Val Phe Leu Thr Phe Phe Leu Ala Leu Phe Asp Arg
 35 40 45
 Leu Ser Ser His Ser Pro Ser Lys Leu Leu Gly Thr His Leu Thr Gly
 50 55 60
 Gln Cys Leu Asp Ala Pro Gln Thr Gly Ser Val Phe Ser
 65 70 75

<210> 30598

<211> 365

<212> PRT

<213> A.fumigatus

<400> 30598

Asp Val Gly His Pro Phe Pro Arg Gly Ala Phe Leu Glu Pro Ile Ser
 1 5 10 15
 Tyr Arg Thr Met Ala Gln Ser Thr Val Ser Cys Tyr Leu Pro Asn Phe
 20 25 30
 Gly Ala Thr Cys Asp Gly Pro Lys Arg Pro Leu Ser Leu Lys Leu Arg
 35 40 45
 Thr Asp Ala Leu Gln Ser Ser Gly Leu Leu Ser Ala Trp Arg Glu Gly
 50 55 60
 Gln Leu Thr Gln Leu Leu Gln Ala Ser Trp Ala Leu Ile Leu His Arg
 65 70 75 80
 Tyr Thr Gly Ser Glu Asp Ile Cys Phe Gly Tyr His Gln Ile Gly Asn
 85 90 95
 Val Ser Gln Asp Leu Leu Gln Ser Leu Glu Ala Val Asp Pro Ala Leu
 100 105 110
 Cys Lys Val Ser Val Lys Glu Gly Ile Ser Leu Lys Met Phe Phe Asp
 115 120 125
 Gln Phe Lys Thr His Asn Ser Pro Asp Ser Pro Leu Glu Ile Asp Arg
 130 135 140
 Ser Ser Arg Lys Ala Ser Glu Asn Ala Arg Leu Tyr Asn Thr Ile Leu
 145 150 155 160
 Met Ile Gln Ile Cys His Asp Ser Asn Gly Thr Ser Pro Ala Ile Pro
 165 170 175
 Leu Pro Ser Ser Leu Pro Ile Ala Leu Pro Gln Glu Val Ser Thr Glu
 180 185 190
 Arg Leu Val Leu Tyr Leu Pro Val Gln Pro Ser Glu Thr Tyr Leu Gln
 195 200 205
 Ser Arg Val Arg Leu His Val Lys Val Leu Gln Asp Glu Val Asn Ile
 210 215 220
 Phe Phe Glu Trp Trp Asn Asn Asp Met Pro Thr Ala Gln Met Lys Ser
 225 230 235 240
 Ile Ala Gly Ala Phe Gly His Ile Leu Thr Asp Leu Leu Ala Ala Asn
 245 250 255
 Asp Thr Ala Val Asp Asp Leu Asp Ile Phe Pro Glu Asn Asp Trp Ser
 260 265 270
 Arg Val Cys Ser Phe Asn Ser Val Leu Pro Lys Lys His Glu Arg Cys
 275 280 285
 Ile His Glu Met Ile Tyr Asp Arg Thr Leu Leu Gln Pro Glu Asn Glu
 290 295 300
 Ala Val Cys Ser Trp Asp Gly Ser Leu Thr Tyr Lys Glu Leu Asp Leu
 305 310 315 320
 Leu Ser Ser Lys Val Ala Tyr Asp Leu Gln Gln Arg Gly Val Gly Pro
 325 330 335
 Glu Val Cys Val Ala Leu Cys Phe Glu Lys Ser Val Ser Ala Ala Gly
 340 345 350
 Gln Met Ile Glu Leu Pro Ala Tyr Arg His Phe Ile Ile
 355 360 365

<210> 30599

<211> 125

<212> PRT

<213> A.fumigatus

<400> 30599

Gly Arg Ser Thr Asn Leu Thr Val Leu Leu Leu Thr Ala Gly Asp Ala
 1 5 10 15

Ile Asn Ala Thr Gln Trp Asp Ala Ala Leu Ala Lys Val Asn Asp Leu
 20 25 30
 Ile Ala Gln Thr Ser Leu Thr Glu Lys Ala Ser Ile Val Thr Gly Thr
 35 40 45
 Val Gly Phe Gly Glu Leu Cys Leu Tyr Asp Gly Pro Gln Gly Leu His
 50 55 60
 Phe Ala Asp Leu Arg Ser Val Phe Pro Ser Glu Leu Ala Ala Ala Ala
 65 70 75 80
 Pro Trp Asp Arg Cys Tyr Leu Asp Gly Asp Gly Glu Arg Trp Glu Pro
 85 90 95
 Ser Phe Val Ala Lys Val Pro Met Leu Cys Leu Asp Glu Ser Thr Tyr
 100 105 110
 Ser Trp Lys Ile Gly Arg Gly Ala Asn Arg Gly Ser Ile
 115 120 125

<210> 30600

<211> 166

<212> PRT

<213> A.fumigatus

<400> 30600

Ala Gly Leu Pro Arg Val Arg Tyr Val Arg Leu Phe Cys Asp Ala Phe
 1 5 10 15
 Trp Thr Val Arg His Gln Arg Arg Ser Arg Pro Lys Tyr Ala Arg Leu
 20 25 30
 Ser Ile Gly Gly Cys Phe Gln Pro Phe Ile Leu Pro Met Trp Phe Pro
 35 40 45
 Gly Ile Arg Asn Gly Thr Ile Pro Glu Trp Arg Leu Asn Glu Met Ile
 50 55 60
 Arg Gln Ile Leu Thr Pro Tyr Tyr Tyr Ser Ser Gln Asp His Glu Tyr
 65 70 75 80
 Pro Thr Ile Asp Pro Ser Ser Tyr Ala Val Thr Ala Ala Thr Tyr Gly
 85 90 95
 Ile Leu Pro Ala Gly Glu Val Thr Pro Ala Gly Arg Asp Val Arg Gly
 100 105 110
 Asn His Ser Leu Leu Ile Arg Lys Ile Gly Ser Ala Gly Thr Val Leu
 115 120 125
 Leu Lys Asn Lys Asp Lys Thr Leu Pro Ile Arg Pro Ala Trp Val Ile
 130 135 140
 Gly Val Phe Gly Asn Asp Ala Pro Asp Ile Asn Gly Gly Leu Leu Pro
 145 150 155 160
 Glu Gln Gln Leu Arg Ala
 165

<210> 30601

<211> 65

<212> PRT

<213> A.fumigatus

<400> 30601

Cys Cys Leu Tyr Leu Ser Gln Asn Cys His Tyr His Thr Leu Gly Trp
 1 5 10 15
 Cys Lys Tyr Asn Val Leu Ala Asp Asn Glu Asn Val Thr Ala Ile Leu
 20 25 30
 Ala Ala His Tyr Ser Arg Gln Glu Ser Arg Asn Ser Ile Thr Asp Asn
 35 40 45

11644

Pro Ala Leu Ile Thr Leu Gly Phe Tyr Lys Asn Gln Pro Ile Gly Ser
50 55 60

Arg
65

<210> 30602
<211> 74
<212> PRT
<213> A.fumigatus

<400> 30602
Asp Val Glu Leu Thr Glu Ala Leu Ser Ser Pro Ser Ala Gly Ser Leu
1 5 10 15
Gly Arg Ser Pro Leu Val Leu Gly Gly Arg Val Thr Gly Lys Asp
20 25 30
Ser Ser Leu Ile Leu Leu Ser Gly Val Ala Met Gln Glu Ser Ile Arg
35 40 45
Ser Ala Gln Ala Val Gly Met Gln Ala Cys Ala Lys His Tyr Ile Trp
50 55 60
Gln Arg Thr Ile Asn Pro Ser Tyr Glu Ser
65 70

<210> 30603
<211> 82
<212> PRT
<213> A.fumigatus

<400> 30603
Leu Gln Gln Ser Gln Ala Asp Val Phe Leu Arg Lys Phe Ser Leu Leu
1 5 10 15
Lys Lys Asn Met Arg Asp Glu Leu Asp Phe Gln Gly Tyr Val Met Ser
20 25 30
Asp Phe Phe Ala Thr His Ser Gly Leu Phe Ala Ile Asn Ala Gly Leu
35 40 45
Asp Leu Asn Met Pro Gly Tyr Leu Ser Glu Ala Ala Phe Asn His Ser
50 55 60
Tyr Phe Gln Cys Gly Phe Leu Val Phe Val Met Glu Leu Phe Leu Asn
65 70 75 80
Gly Gly

<210> 30604
<211> 114
<212> PRT
<213> A.fumigatus

<400> 30604
Lys His Ala Gln Gly Met Arg Ala Leu Ala Trp Phe Tyr Leu Thr Asp
1 5 10 15
Lys Lys Leu Ile Val Glu Gly Asn Phe Asn Ser Ile Tyr Pro Arg Pro
20 25 30
Asp Ile Cys Leu Val Phe Pro Gln Asp Pro Ser Pro Gly Trp Asn Cys
35 40 45
Trp Gln Ser Leu Glu Ala Asp Trp Asn Leu Ile Leu Val Val Asn Asn
50 55 60
Val Ala Ser Ile Cys Arg Arg Thr Val Ile Ile Thr His Ser Asp Gly

11645

65		70		75		80									
Val	Asn	Ile	Met	Ser	Trp	Gln	Ile	Met	Arg	Thr	Ser	Leu	Leu	Phe	Ser
			85						90					95	
Gln	Arg	Ile	Thr	Leu	Gly	Lys	Ser	Leu	Glu	Ile	Pro	Ser	Pro	Thr	Thr
			100					105					110		
Gln	Pro														

<210> 30605

<211> 285

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (166), (170), (174)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30605

Arg	Ser	Val	Asp	Lys	Val	His	Thr	Pro	Phe	Phe	Lys	Ala	Lys	Pro	Pro
1				5					10					15	
Ser	Thr	Val	Cys	Thr	Cys	Val	Ala	Trp	Leu	Ser	Pro	Thr	Asp	Ile	Ala
			20					25					30		
Val	Gly	Cys	Ala	Asn	Gly	Phe	Val	Ala	Ile	Trp	Ser	Ile	Thr	Ala	Ser
		35				40						45			
Glu	Glu	Thr	Pro	Thr	Ala	Ser	Leu	Pro	Tyr	Phe	Tyr	Glu	Pro	Ile	His
		50				55					60				
Arg	Thr	Tyr	Ile	Leu	Asn	Leu	Ala	Ser	Ala	Tyr	Pro	Thr	His	Pro	His
65					70					75				80	
Leu	Leu	Cys	Thr	Thr	Ser	Met	Asp	Gly	Glu	Thr	Arg	Leu	Thr	Ser	Ile
				85					90					95	
Ala	Asp	Tyr	Gln	Lys	Asp	Thr	Val	Glu	Thr	Thr	Arg	Met	Arg	Met	Ala
			100					105					110		
Ser	Pro	His	Ala	Ala	Tyr	Ser	Pro	Leu	Leu	His	Ala	Phe	Ile	Ser	Ser
		115					120					125			
Asp	Glu	Asn	Asp	Phe	Ala	Arg	Leu	Leu	Ala	Val	Arg	Arg	Phe	Phe	Thr
	130					135					140				
Thr	Thr	Ala	Met	Ala	Arg	Leu	Pro	Ser	Thr	Val	Ser	Ala	Leu	Ala	Pro
145					150					155				160	
Cys	Ser	Phe	Trp	His	Xaa	Ser	Val	Leu	Xaa	Gly	Cys	Ala	Xaa	Gly	Glu
				165					170					175	
Val	Ile	Ala	Thr	Asn	Pro	Ile	Arg	Arg	Leu	Val	His	Pro	Lys	Glu	Lys
			180					185					190		
Gln	Trp	Gln	Gln	Thr	Trp	Phe	Thr	His	Glu	Trp	Ala	Arg	Gly	Gln	Asp
		195					200					205			
Ala	Asp	Ser	Ala	Gly	Thr	Ser	Arg	Phe	Ile	Asp	Gly	Tyr	Arg	Ala	Glu
	210					215					220				
Ser	Phe	Ser	Leu	Leu	Arg	Asn	Met	Val	Gly	Asp	Arg	Arg	Met	Val	Asn
225					230					235				240	
Gly	Thr	Met	Met	Ile	Thr	Ile	Phe	Asp	Glu	Pro	Arg	His	Val	Thr	Ala
				245					250					255	
Leu	Thr	Trp	Asn	Pro	Asn	Gln	Leu	Cys	Ala	Gly	Trp	Ala	Ser	Ala	Gly
			260					265					270		
Leu	Gly	Cys	Gly	Leu	Ile	Arg	Val	Glu	Asp	Leu	Ala	Ile			
		275					280					285			

<210> 30606
 <211> 76
 <212> PRT
 <213> A.fumigatus

<400> 30606
 Gly Leu Ile Ser Phe His Gly Gly Leu Ile Asp Ala Gly Gly Ala Leu
 1 5 10 15
 Met Leu Tyr Ser Val Thr His Val Glu Val Met Gly Met Cys Ala Leu
 20 25 30
 Cys Gln Arg Ala Met Arg Thr Met His Ala Asn Glu Asn Val Asp Lys
 35 40 45
 Ile Leu Phe His Val Leu Leu Cys Leu Ala Leu Ser Leu Thr Leu Met
 50 55 60
 Gln Ala Pro Glu Gln Ile Arg Thr Ala Ala Ser Arg
 65 70 75

<210> 30607
 <211> 223
 <212> PRT
 <213> A.fumigatus

<400> 30607
 Pro Gly Thr Ser Ile Leu His Pro Arg Trp Thr Leu Lys Gly His Glu
 1 5 10 15
 Ser Arg Asn Glu Ser Pro Trp Glu Phe Phe Thr Thr Ser Ala Val Thr
 20 25 30
 Val Phe Ser Tyr Ser Leu Pro Thr Val Met Ser Asp Leu Pro Ile Pro
 35 40 45
 Ser Trp Leu Asp Val Ser Thr Ala Ser Phe Leu Ser Thr Pro Glu Asp
 50 55 60
 Thr Thr Asp Thr Leu Asp Pro Arg Ser Leu Phe Pro Asp Glu Gln Val
 65 70 75 80
 Ala Asn Asn Ala Pro Ser Tyr Asp Asn Gly Ser Ser Gly Ile Leu Cys
 85 90 95
 Asn Ala Ser Asn Ala Leu Phe Ala Asp Pro Leu Leu Tyr Glu Asp Ser
 100 105 110
 Phe Leu Pro Ser Glu Ile Asp Arg Gln Pro Pro Val Gln Phe Gln Ala
 115 120 125
 Gln Pro Thr Asn Gln Met Pro Pro Ser Leu Val Ala Ser Ser Pro Gly
 130 135 140
 Phe Arg Thr Val Ser Gly Gly Arg Gly Phe Arg Arg Glu Met Leu Gln
 145 150 155 160
 Leu Glu Ser Ala Pro Pro Arg Thr Ile Thr Pro Ser Asp Pro Tyr Leu
 165 170 175
 Pro Thr Lys Pro Ala Ala Ala Glu Gln Cys Pro Ala Ser Asn His Thr
 180 185 190
 Lys Ala Thr Val Lys Ser Asn Gly Ser Thr His Ser Ala Pro Arg Thr
 195 200 205
 Arg Lys Arg His Ala Ser Ile Arg Ser Gln Leu Ser His Gly Asn
 210 215 220

<210> 30608
 <211> 180
 <212> PRT
 <213> A.fumigatus

<400> 30608

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Ser Ala Pro Cys Leu Thr Ser Ala Thr Ala Ile Ser Lys Cys Pro Ala
1           5           10           15
Ala Ala Ala Leu Phe Asn Gly Ala Gln Pro Val Arg Ser Gly Val Val
          20           25           30
Thr Ser Ala Pro Leu Ala Arg Ser Ser Ser Thr Thr Ala Arg Trp Pro
          35           40           45
Ser Asp Ala Ala Ala Leu Arg Gly Val His Leu Phe Ala Asp Ala Cys
          50           55           60
Glu Val Ser Ala Pro Trp Ser Arg Arg Met Arg Thr Thr Ser Val Trp
65           70           75           80
Pro Ser Phe Ala Ala Gln Tyr Asn Gly Val Ala Pro Thr Ser Pro Met
          85           90           95
Ile Ala Leu Thr Ser Ala Pro Arg Leu Met Arg Val Ser Thr Ile Ser
          100          105          110
Ala Trp Pro Ser Glu Ala Ala Asp Ala Ser Gly Val His Pro Leu Val
          115          120          125
Val Gly Lys Leu Lys Ser Ala Pro Trp Ser Ser Lys Tyr Phe Thr Ile
          130          135          140
Trp Arg Trp Pro Leu Phe Ala Ala Thr Phe Ser Gly Val His Cys Phe
145          150          155          160
Gly Cys Val Val Ser Asp Met Phe Thr Pro Cys Ser Thr Ser Thr Phe
          165          170          175
Thr Glu Pro Ser
          180

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<210> 30609

<211> 640

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (6)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30609

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Lys Gln Ser Leu Leu Xaa Val Leu Asp Met Glu Ile Lys Asp Leu Glu
1           5           10           15
Ala Ala Val Gln Ser Leu Lys Lys Leu Ser Ile Val Ser Ser Gly Glu
          20           25           30
Ile Ala Glu Arg Gln Asn Met Ile Val Ala Met Glu Gly Leu Ile Ser
          35           40           45
Ser Ala Lys Ser Phe Asn Thr Phe Met Ser Val Ala Pro Ser Ala Pro
          50           55           60
Thr Val Asn Gln Glu Asp Gly His Gly Ser Ala Pro Leu Pro Ser Tyr
65           70           75           80
Ala Gln Ala Met Ala Pro Asp Asp Gly Ala Glu Ser Glu Asp Ser Ala
          85           90           95
Pro Trp Pro Ser Pro Phe Asn Val Ala Ala Arg Glu Gly Asn Leu Glu
          100          105          110
Glu Ile Lys Arg Leu Val Ala Ala Gly Glu Asp Ile Leu Ala Thr Gly
          115          120          125
Glu Ile Gly Gln Ser Pro Ala Tyr Ser Ala Ala Val Ser Gly Asn Thr
          130          135          140

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Glu Ile Leu Glu Tyr Leu Ile Glu His Gly Ala Asp Tyr Thr Ser Gly
 145 150 155 160
 Asn Glu Asn Gly Phe Thr Pro Leu Asn Ala Ala Ala Thr Phe Gly His
 165 170 175
 Pro Asp Ala Val Leu Ala Leu Leu His His Gly Ala Asp Pro Asn Val
 180 185 190
 Pro Ser Val Asp Gly Gln Ser Pro Ile Tyr Ser Ala Ala Lys Leu Gly
 195 200 205
 Gln Leu Gly Ser Val Lys Val Leu Val Glu His Gly Val Asn Ile Ser
 210 215 220
 Asp Thr Thr His Pro Lys Gln Trp Thr Pro Leu Asn Val Ala Ala Asn
 225 230 235 240
 Ser Gly His Leu His Ile Val Lys Tyr Leu Leu Asp Gln Gly Ala Asp
 245 250 255
 Phe Asn Leu Pro Thr Thr Ser Gly Trp Thr Pro Leu Ala Ser Ala Ala
 260 265 270
 Ser Glu Gly His Ala Glu Ile Val Glu Thr Leu Ile Lys Arg Gly Ala
 275 280 285
 Asp Val Asn Ala Ile Ile Gly Glu Val Gly Ala Thr Pro Leu Tyr Cys
 290 295 300
 Ala Ala Lys Asp Gly His Thr Asp Val Val Arg Ile Leu Leu Asp His
 305 310 315 320
 Gly Ala Asp Thr Ser Gln Ala Ser Ala Asn Lys Trp Thr Pro Leu Asn
 325 330 335
 Ala Ala Ala Ser Glu Gly His Leu Ala Val Val Glu Leu Leu Leu Ala
 340 345 350
 Lys Gly Ala Asp Val Thr Thr Pro Asp Arg Thr Gly Trp Ala Pro Leu
 355 360 365
 Asn Ser Ala Ala Ala Ala Gly His Phe Glu Ile Ala Val Ala Leu Val
 370 375 380
 Lys His Gly Ala Asp His Ala Val Ala Asp Ser Arg Gly His Thr Pro
 385 390 395 400
 Leu Tyr Ser Ala Ala Leu His Gly His His Ala Ile Val Asp Leu Leu
 405 410 415
 Leu Glu Ala Gly Ala Ser Ile Asn Val Thr Asn Lys Asp Lys Trp Thr
 420 425 430
 Pro Leu His Ala Ala Ser Ala Arg Gly His Leu Gln Val Val Gln Ser
 435 440 445
 Leu Ile Ala Cys Gly Ala Asn Ser Ala Thr Arg Asn Met Asp Gly Trp
 450 455 460
 Ser Pro Leu Asn Ser Ala Ala Cys Asn Gly His Leu Glu Val Val Lys
 465 470 475 480
 Leu Leu Leu Arg His Gly Ala Ala Val Asp Ser Arg Ser Asp Asp Gly
 485 490 495
 Trp Ser Pro Leu Thr Ala Ala Ala Gly Asn Gly His Thr Ala Val Val
 500 505 510
 Glu Ala Leu Leu Asp Arg Lys Thr Asp Ile Glu Thr Ser Asn Asp Ile
 515 520 525
 Gly Trp Thr Ser Leu Gly Ile Ala Ala Arg Glu Gly Tyr Pro Glu Thr
 530 535 540
 Val Lys Val Leu Leu Ala Arg Gly Ala Asp Lys Asn Ala Thr Asn Ile
 545 550 555 560
 Asn Gly Trp Thr Ala Leu His Gly Ala Val Glu Lys Asp Gln Leu Glu
 565 570 575
 Val Val Thr Leu Leu Leu Ala Gln Gly Leu Asp Ile Ser Ala Lys Ser
 580 585 590

11649

Asn Thr Gly Trp Thr Pro Leu Asn Ile Ala Ala Ser Asn Gly Arg Ala
 595 600 605
 Thr Ile Ala Gln Phe Leu Leu Ala Ser Gly Ala Asp Pro Asn Thr Pro
 610 615 620
 Gln Asp Val Phe Thr Thr Gly Leu Glu Gly Pro Thr Arg Ser Leu Ser
 625 630 635 640

<210> 30610
 <211> 78
 <212> PRT
 <213> A.fumigatus

<400> 30610
 Ala Val Ile Gly Lys Tyr Ser Val Lys Arg Tyr Thr Tyr Leu Ser Ile
 1 5 10 15
 Tyr Arg Arg Gly Gly Pro Gln Lys Lys Asn Gly Ser Ser Asp Ser Pro
 20 25 30
 Glu Tyr Asn Leu Glu Val Pro Ser Arg Asp Ala Ser Ala Thr Asn Lys
 35 40 45
 Tyr Met Glu Lys Ser Lys Phe Gly Gly Phe Leu Ser Leu Asp Leu Glu
 50 55 60
 Arg Met Asp Gly Ser Ile Trp Leu Lys Gln Ser Ile Lys Pro
 65 70 75

<210> 30611
 <211> 286
 <212> PRT
 <213> A.fumigatus

<400> 30611
 Pro Asn His Gly Leu Ser Leu Met Arg Phe Leu Val Ser Gly Asn Ser
 1 5 10 15
 Trp Ser Arg Ser Gly Gln Leu Leu Ala Ser Gly Ser Asp Asp Leu His
 20 25 30
 Leu Asn Ile Tyr Ser Tyr Gln Pro Glu Ser Ser Ser Ala Pro Phe Thr
 35 40 45
 Leu Asn Thr Thr Val Tyr Thr Gly His Lys Ala Asn Ile Phe Ser Ala
 50 55 60
 Lys Phe Met Pro His Ser Asn Asp Arg Thr Leu Val Thr Cys Ala Gly
 65 70 75 80
 Asp Ser Gln Val Arg Val Phe Asp Ile Glu Tyr Ser Ala Gly Asn Ser
 85 90 95
 Asn Val Ala Ala Thr Ser Ala Phe Ser Ala Ser Ala Arg Ser Arg Arg
 100 105 110
 Phe Asn Asn Phe Phe Ser Asn Ala Arg Tyr Leu Asn Glu Arg Asn Thr
 115 120 125
 Asn Cys Arg Val Tyr Arg Ser His Ala Asp Arg Val Lys Arg Ile Val
 130 135 140
 Thr Glu Ser Ser Pro Tyr Leu Phe Leu Thr Cys Ser Glu Asp Gly Glu
 145 150 155 160
 Val Arg Gln Trp Asp Leu Arg Gln Pro Ser Ser Ala Tyr Pro Gln Pro
 165 170 175
 Arg Gly Gly Gln Gly Phe Met Ala Tyr Arg Pro Gly Leu Glu His Asp
 180 185 190
 Asp Ser Asn Val Pro Pro Pro Leu Ile Ser Tyr Lys Arg Tyr His Leu
 195 200 205

11650

Asp Leu Asn Thr Ile Ser Cys Ser Ser Ser Gln Pro His Tyr Ile Ala
 210 215 220
 Leu Gly Gly Ala His Leu His Cys Phe Leu His Asp Arg Arg Met Leu
 225 230 235 240
 Gly Arg Asp Leu Leu Ala Glu Lys Gly His Pro Gly Gly Leu Ser Asp
 245 250 255
 Ser Gly Ser His His Asp Asp Glu Leu Met Gly Gln Ala Thr Arg Cys
 260 265 270
 Val Arg Arg Phe Ala Pro Asp Gly Lys Arg Arg Met Arg Pro
 275 280 285

<210> 30612

<211> 370

<212> PRT

<213> A.fumigatus

<400> 30612

Arg Ala Val Val Thr Val Lys Lys Ser Gln Gly Asp Val Asn Ala Ala
 1 5 10 15
 Ala Asp Ile Leu Cys Glu Leu Gln Val Glu Thr Phe Gly Ser Met Thr
 20 25 30
 Arg Arg Glu Lys Thr Glu Phe Ile Leu Glu Gln Val Ala Leu Cys Ile
 35 40 45
 Glu Arg Gly Asp Trp Ser Gln Ala Ala Ile Leu Ser Arg Lys Ile Asn
 50 55 60
 Lys Ile Tyr Phe Ala Arg Lys Pro Gln Lys Ser Ala Glu Glu Ile Glu
 65 70 75 80
 Lys Leu Lys Lys Ala Ala Glu Glu Arg Glu Lys Thr Arg Ala Pro Asp
 85 90 95
 Glu Pro Pro Met Glu Val Asp Glu Asp Val Thr Asp Leu Lys Leu Arg
 100 105 110
 Tyr Tyr Glu Gln Gln Ile Ile Leu Ala Asn His Asp Tyr Lys Tyr Leu
 115 120 125
 Ala Val Cys Lys His Tyr Arg Glu Val Leu Asp Thr Asp Ser Val Gln
 130 135 140
 Asn Ile Pro Glu Gln Leu Arg Ala Val Ser Arg Tyr Leu Pro Cys Leu
 145 150 155 160
 Leu Met Trp Thr Leu Thr Ile Ile Thr Lys Val Leu Ala Arg Ile Val
 165 170 175
 Tyr Tyr Ile Val Leu Ser Pro Tyr Asp Asn Glu Gln Ser Asp Leu Leu
 180 185 190
 His Arg Ile Gln Gln Asp Ser Arg Leu Ser Leu Val Pro Val Glu Ala
 195 200 205
 Arg Leu Val Lys Leu Phe Thr Val Pro Glu Leu Met Arg Trp Pro Met
 210 215 220
 Val Ala Glu Gln Phe Gly Pro His Leu Cys Asn Thr Asp Val Phe Asn
 225 230 235 240
 Ala Gln Pro Ser Gln Ser Val Glu Asp Gln Ala His Lys Arg Trp Gln
 245 250 255
 Asp Leu Arg Lys Arg Val Ile Glu His Asn Val Arg Val Val Ala Lys
 260 265 270
 Tyr Tyr Thr Arg Ile Gln Met Gly Arg Leu Thr Glu Leu Leu Asp Leu
 275 280 285
 Ala Glu Glu Glu Thr Glu Lys Tyr Ile Ser Glu Leu Val Thr Ser Lys
 290 295 300
 Thr Ile Tyr Ala Lys Ile Asp Arg Pro Ala Arg Leu Val Asn Phe Ala

11651

305 310 315 320
 Lys Pro Arg Asp Ala Asp Asp Val Leu Asn Glu Trp Ser Ser Asp Met
 325 330 335
 Lys Ser Leu Leu Gly Leu Leu Glu Arg Ile Asp His Leu Ile Thr Lys
 340 345 350
 Glu Glu Met Met Ala Arg Ile Leu Pro Ser Arg Gly Glu Ile Gly Lys
 355 360 365
 Ala Arg
 370

<210> 30613
 <211> 293
 <212> PRT
 <213> A.fumigatus

<400> 30613
 His Ile Leu Leu Ile Met Ala Pro Arg Gln Pro Leu Lys Leu Leu Met
 1 5 10 15
 Leu His Gly Tyr Thr Gln Ser Gly Thr Leu Phe His Ala Lys Ser Arg
 20 25 30
 Ala Leu Ile Lys His Ile Thr Lys Ala Phe Pro Leu His Glu Val Ser
 35 40 45
 Ala Ile Tyr Pro Thr Gly Pro Thr Arg Leu Asn Pro Ala Asp Ile Pro
 50 55 60
 Gly Tyr Glu Pro Pro Ala Glu Gly Ser Thr Val Glu Gln Gln Gln Glu
 65 70 75 80
 Gln Ile Glu Ala Tyr Gly Trp Tyr Arg Arg Ser Asn Thr Ala Asp Pro
 85 90 95
 Pro Leu Tyr Ile Gly Leu Glu Gly Gly Leu Asp Ala Ile Ala Lys Val
 100 105 110
 Leu Arg Glu Glu Arg Pro Phe Asp Gly Val Ile Gly Phe Ser Gln Gly
 115 120 125
 Ala Ala Met Ala Ala Met Val Ala Ser Leu Leu Glu Pro Gly Arg Lys
 130 135 140
 Glu Ala Phe Glu His Phe Ala Asp Pro Lys Val Ala Ser Glu Gly Phe
 145 150 155 160
 Glu Val Lys Glu Pro Val Ala Gly Val Ala Phe Pro Ala Ser Phe Glu
 165 170 175
 Glu Ala Gly His Pro Pro Leu Lys Phe Ala Leu Cys Tyr Ser Gly Phe
 180 185 190
 Arg Ser Pro Gly Pro Arg Tyr Arg Pro Phe Tyr Glu Asn Pro Pro Ile
 195 200 205
 Gln Thr Pro Ile Leu His Val Leu Gly Ser Leu Asp Ala Val Val Asp
 210 215 220
 Asp Thr Arg Ser Arg Ala Leu Val Glu Ala Cys Ala Gly Asp Pro Glu
 225 230 235 240
 Lys Glu Gly Lys Val Val Trp His Pro Gly Gly His Phe Leu Pro Ser
 245 250 255
 Gln Arg Pro Tyr Leu Asp Ala Ala Val Arg Phe Ile Lys Glu Gln Leu
 260 265 270
 Glu Gly Lys Gln Ala Lys Ala Asp Ala Lys Glu Asp Asp Val Arg Asp
 275 280 285
 Met Asp Leu Pro Phe
 290

<210> 30614

<211> 176
 <212> PRT
 <213> A.fumigatus

<400> 30614

Glu	Val	Leu	Pro	Leu	Arg	Gln	Gly	Leu	Leu	Gln	Leu	Ser	Gly	Val	Asn
1				5				10						15	
Ala	Thr	Ala	Lys	Met	Ser	Lys	Ser	Pro	Thr	Glu	His	Val	Glu	Leu	Ser
			20					25					30		
Pro	Thr	Lys	Leu	Glu	Asn	Ala	Ser	Asp	Ala	Leu	Tyr	Glu	Ala	Tyr	Ala
		35					40					45			
Ser	Lys	Gly	Pro	Glu	Trp	His	Gln	Gln	Met	Thr	Arg	Arg	Leu	Leu	Arg
	50					55				60					
Lys	Val	Asp	Leu	His	Leu	Leu	Pro	Phe	Leu	Val	Val	Met	Tyr	Leu	Leu
65					70					75					80
Asn	Phe	Leu	Asp	Arg	Lys	Tyr	Ala	Ser	Val	Ser	Gln	His	Lys	Ile	Lys
			85						90					95	
Leu	Thr	Ser	Leu	Lys	Gln	Ser	Leu	Thr	Ser	Ala	Thr	Trp	Asp	Ile	Gly
			100					105					110		
Lys	Gly	Leu	Gly	Asp	Asp	Arg	Asp	Arg	Leu	Gln	Pro	Gly	Asp	Glu	His
		115					120					125			
Ser	Val	Arg	Arg	Ile	Pro	Ala	His	Ala	Ala	Pro	Val	Gln	Ser	Ala	Ala
	130					135					140				
Asp	Ala	Arg	Glu	Ala	Val	Val	Ala	Ala	Gly	Trp	Arg	Asn	Gly	Asp	Leu
145					150					155					160
Val	Cys	Ser	Leu	Met	Val	Leu	Ser	Asn	Arg	Ser	Asp	Gln	Pro	Gly	Ala
				165					170					175	

<210> 30615
 <211> 145
 <212> PRT
 <213> A.fumigatus

<400> 30615

Leu	Ser	Ser	Val	Met	Arg	Ile	Asn	Val	Phe	Thr	Ile	Leu	Ser	Leu	Leu
1				5				10						15	
Phe	Ala	Ser	Asn	Leu	Ala	Met	Ala	Thr	Thr	Arg	Tyr	Thr	Glu	Pro	Ile
			20					25					30		
Pro	Glu	Gly	Ile	Pro	Val	Leu	Glu	Thr	Arg	Gln	Gln	Leu	Asn	Asp	Met
		35					40					45			
Ala	Asp	Gln	Tyr	Pro	Thr	Gly	Thr	Leu	Asp	Asp	Arg	Asn	Gly	Gly	Tyr
	50					55					60				
Tyr	Leu	Leu	Asp	His	Asp	Gly	Ala	Val	Leu	Ala	Val	Thr	Ser	Asp	Ala
65					70					75					80
Leu	Cys	Glu	Glu	Leu	Asp	Ala	Ser	Met	Glu	Gln	Ala	Arg	Arg	Phe	His
				85				90						95	
Ala	Gly	Asn	Leu	Asp	Asp	Glu	Ala	Asp	Val	Val	Pro	Arg	Gly	Asp	Asn
			100					105					110		
Ala	Ala	Ala	Ser	Cys	Ser	His	Pro	Arg	Cys	His	Thr	His	Ala	Leu	Cys
		115					120					125			
Arg	Thr	Tyr	Ser	Asp	Cys	Tyr	Val	Cys	Ser	Ser	Ser	Lys	His	Trp	Cys
	130					135					140				
Phe															
145															

<210> 30616

<211> 129
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (99), (102)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30616
 Ser Asn Leu Ser Gln Ala Arg Leu Gly Thr Leu Glu Lys Asp Leu Gly
 1 5 10 15
 Met Thr Gly Thr Asp Phe Asn Leu Ala Thr Ser Ile Leu Phe Val Gly
 20 25 30
 Tyr Leu Leu Met Gln Leu Pro Ser Asn Leu Leu Leu Thr Arg Val Lys
 35 40 45
 Pro Ser Trp Leu Leu Gly Gly Ala Met Ala Ile Trp Tyr Val Pro Ser
 50 55 60
 Trp Phe Cys Arg Ile Gly Leu Thr Ser Gln Gly His Asn Ile Arg Ser
 65 70 75 80
 Ser Cys Gly Asn Asp Leu Val His Arg Leu Gly Ser Gly Glu Ile Leu
 85 90 95
 Pro Gly Xaa Cys Gly Xaa Ala Phe Leu Pro Gly Gly Asp His Val Asp
 100 105 110
 Val Arg Ile His Leu Lys Pro Arg Lys Arg Lys Leu Pro Val Leu Met
 115 120 125
 Leu

<210> 30617
 <211> 153
 <212> PRT
 <213> A.fumigatus

<400> 30617
 Glu Ser Thr Ser Leu Pro Ser Cys Pro Phe Ser Ser Pro Ala Ile Ser
 1 5 10 15
 Pro Trp Leu Gln Pro Asp Thr Pro Ser Arg Ser Pro Arg Glu Ser Pro
 20 25 30
 Ser Ser Arg Pro Ala Ser Asn Ser Thr Thr Trp Gln Thr Asn Ile Pro
 35 40 45
 Arg Gly Leu Trp Thr Ile Glu Thr Gly Ala Thr Thr Cys Ser Thr Thr
 50 55 60
 Thr Ala Pro Ser Trp Pro Leu Arg Leu Met Arg Tyr Ala Arg Asn Trp
 65 70 75 80
 Thr Pro Arg Trp Asn Lys Arg Gly Asp Phe Met Pro Gly Thr Trp Thr
 85 90 95
 Thr Arg Pro Met Leu Phe Leu Gly Val Ile Met Arg Leu Arg Val Ala
 100 105 110
 Leu Thr Arg Ala Val Ile Pro Met Leu Cys Val Ala His Ile Val Thr
 115 120 125
 Ala Met Phe Val Arg Arg Ala Asn Ile Gly Val Phe Asp Tyr Gly Leu
 130 135 140
 Val Leu Pro Leu Gly Glu Val Asp Val
 145 150

<210> 30618
 <211> 72
 <212> PRT
 <213> A.fumigatus

<400> 30618
 Thr Arg Leu Ala Gln Ala Gly Tyr Glu Val Ala Ile Val Glu Ala Gly
 1 5 10 15
 Gly Trp Tyr Glu Asp Ser Glu Pro Ile Ile Ser Ser Thr Pro Ala Phe
 20 25 30
 Gly Phe Ala Asn Asn Ala Ala Asn Asp Trp Gly Phe Met Val Glu Pro
 35 40 45
 Gln Pro Gly Met Gly Gly Arg Val Phe Gly Tyr Pro Arg Gly Lys Cys
 50 55 60
 Val Gly Gly Ser Ser Ala Arg Lys
 65 70

<210> 30619
 <211> 163
 <212> PRT
 <213> A.fumigatus

<400> 30619
 Thr Val Thr Gly Phe Ile Gln Lys Cys His Tyr Gln Thr Ser Tyr Thr
 1 5 10 15
 Tyr Ile Lys Ala Arg Leu Val Gly Phe Gly Arg Pro Glu Ser Arg Leu
 20 25 30
 Glu Tyr Arg Thr Leu His Ser Thr Ser Phe Gln Ser Leu His Phe Ser
 35 40 45
 Ile Leu Arg Asn Lys Arg Lys Thr Ser Glu Ile Ser Ile Met Gly Ser
 50 55 60
 Leu Ala Pro Thr Ile Val Pro Pro Gly Gly Leu Val Leu Val Thr Gly
 65 70 75 80
 Val Asn Gly Phe Leu Ala Ser His Ile Gly Leu Asn Leu Leu Glu Arg
 85 90 95
 Gly Tyr Lys Val Arg Gly Thr Val Arg Ser Gln Glu Lys Ala Asp Trp
 100 105 110
 Ile Thr Glu Ala Ile Ala Lys Arg Tyr Pro Glu Pro Ser Phe Gln Thr
 115 120 125
 Ala Leu Val Pro Asn Ile Ser Ala Ala Val Gly Leu Gln Arg Cys His
 130 135 140
 Pro Arg Arg Gln Trp Asp Arg Pro Arg Gly Gln Arg Thr Trp Ser Phe
 145 150 155 160
 Gly Glu Arg

<210> 30620
 <211> 64
 <212> PRT
 <213> A.fumigatus

<400> 30620
 Glu Glu Thr Pro Ser Gly His Asn Pro Lys Val Asp Ile His Gln Tyr
 1 5 10 15
 Lys Trp His Val Met Leu Gly Ser Gln Arg Ser Ala Val Gly Ser Pro
 20 25 30

11655

Ala Arg Asn Val Lys Arg Ile Ser Gly Glu Ala Gln Ser Lys Asp Met
 35 40 45
 Gly Lys Gly Ala Leu Leu Gly Ala Gly Ala Phe Ser Gly Leu Thr Asn
 50 55 60

<210> 30621
 <211> 121
 <212> PRT
 <213> A.fumigatus

<400> 30621
 Arg Pro Trp Phe Phe Arg Pro Ala Lys Pro Arg Pro Ser Pro Pro Lys
 1 5 10 15
 Thr Thr Phe Phe Gln Gly Lys Ala Pro Gly Pro Asn Pro Gly Tyr Ile
 20 25 30
 Pro Lys Val Ser Ser Asn Pro Asp Phe Pro Gln Pro Asn Thr Met Arg
 35 40 45
 Val Ser Ser Pro Ile Pro Leu Arg Pro Pro Ile Pro Asn Thr Tyr Leu
 50 55 60
 Thr Pro Val Gln Ile Phe Asp Pro Gln Ser Ala Val Leu Thr Asn Ile
 65 70 75 80
 Glu Val Leu Ala Tyr Ile Thr Ala Asn Pro Pro Arg Arg Pro Pro Asn
 85 90 95
 Pro Pro Pro Asn Ser Arg Asn Trp Val Pro Ser Pro Asp Leu Arg Asp
 100 105 110
 His Asn Thr Val Val Arg Glu Val Gly
 115 120

<210> 30622
 <211> 424
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (16)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30622
 Lys Lys Tyr Gly Leu Val Lys Asp Tyr His Pro Tyr Arg Lys Gly Xaa
 1 5 10 15
 Glu Glu Ala Leu Gln Lys Tyr Ser Gln Arg Val Leu Phe Ala Ala Gly
 20 25 30
 Lys Glu Cys Phe Pro Asn Met Thr Val Asp Ala Gly Cys Val Thr Val
 35 40 45
 Pro Gln Ser Ser Leu Pro Pro Asp Ala Tyr Gly Trp Lys Thr Asp Thr
 50 55 60
 His Pro Glu Gly His Leu Thr Arg Pro Arg Trp Leu Lys Pro Gly Thr
 65 70 75 80
 Val Ile Gly Gln Ala Ala Asp Leu Lys Leu Ile Tyr Ala Glu Val Leu
 85 90 95
 Arg Phe Val Glu Glu Asn Arg His Asn Arg Ser Asp Tyr Leu Ala Leu
 100 105 110
 Thr Gln Met Tyr Gly Arg Gln Glu Tyr Val Arg Glu Leu Glu Arg Arg
 115 120 125
 Arg Ser Ser Asn Trp Phe Asn Glu Trp Val Tyr Arg Leu Ile Gly Ile

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      130              135              140
Ser Glu Ala Ala Asn Ile Thr Gly Val Asn Pro His Leu Glu Thr Gly
145              150              155              160
His Arg Tyr Glu Tyr Gly Ile Gly Val Asp Phe Glu Ser Arg Val Phe
      165              170              175
Phe Asn Thr His Lys Ser Lys Lys Asp Val Glu Trp Leu Gln Tyr His
      180              185              190
Asp Ile Pro Arg Thr Ser Ser Val Gln Met Lys His Gly Ile Pro Arg
      195              200              205
Glu Arg Arg Leu Leu Leu Pro Pro Asp Leu Ala Ser Pro Arg Leu Arg
      210              215              220
Asn Pro Phe Val Gln Pro Leu Phe Gly Lys Asp Glu Gln Val Lys Pro
225              230              235              240
Glu Phe Asn Ser Thr Leu Asp Ala Leu Pro Asn Pro Arg Asn His Thr
      245              250              255
Trp Arg Asn Met Pro Leu Leu Thr Asn Ile His Ser Ala Ser Val Pro
      260              265              270
Ala Leu Ile His Leu Asp Glu Glu Lys Pro Ala Glu Asp Asp Lys Ala
      275              280              285
Trp Pro Val Lys His Pro Glu Arg Leu Ile Arg Asp Thr Trp Trp Tyr
      290              295              300
Asn Met Trp Tyr Gln Pro Trp Ala Arg Ala Leu Leu Arg Lys Tyr Met
305              310              315              320
Arg Ser Pro Thr Gly Phe Asp Ala Ala Gln Ser Ala Leu Leu Gly Gly
      325              330              335
Gln Asp Trp Trp Asp Leu Arg Gly Gly Lys Gly Gly Val Trp Thr Asp
      340              345              350
Lys Gly Glu Trp Leu Asp Tyr Ala Glu Val Cys Thr Gly Phe Glu Gly
      355              360              365
Glu Val Phe Asp Asp Asp Leu Gly Gln Trp Gly His Glu Gly Gly Asp
      370              375              380
Pro Asp Glu Pro Val Tyr Asn Gln Phe Gly Lys Leu Val Lys Gly Lys
385              390              395              400
Gly Glu Ser Glu Asp Lys Pro Gly Gln Gly Lys Asp Asp Ser Ala Asp
      405              410              415
Arg Gln Pro Gly Arg Pro Gln Arg
      420

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<210> 30623

<211> 240

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (33)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30623

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Gly Pro Val Arg Leu Arg Pro Phe Gly Lys Ala Pro Arg Ile Gln Val
1              5              10              15
Met Gly Arg Leu Leu Asn Leu Phe Phe Arg Glu Gly Val Arg Pro Leu
      20              25              30
Xaa Leu Leu Lys Asn Thr Trp Ser Cys Gln Gly Met Glu Ala Gln Pro
      35              40              45
Ser Lys Trp Leu Thr Thr Ser Lys Ser Glu Thr Cys Leu Asp Gln Arg

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Asn	Ser	Val	Gly	Lys	Trp	Met	Pro	Ser	His	Ala	Ala	His	Leu	Glu	
1				5				10					15		
Trp	Leu	Gly	Gly	Val	Ile	Thr	His	Val	Asp	Lys	Asn	Thr	Ser	His	Gln
			20					25				30			
Leu	His	Pro	Val	Leu	Gln	Glu	Phe	Lys	Glu	Leu	Ile	Glu	Thr	Asn	Ser
		35					40					45			
Arg	Val	Tyr	Leu	Leu	Ile	Ser	Ala	Met	Phe	Ala	Glu	Ile	Pro	Arg	Lys
	50					55					60				
Arg	Pro	Tyr	Arg	Thr	Asp	Pro	Thr	Gly	Cys	Ala	Gln	Ile	Arg	Asp	Tyr
65					70					75				80	
His	His	Leu	Leu	Gln	Val	Leu	Asn	Tyr	Leu	Leu	Thr	Thr	Ala	Pro	Ser
				85					90					95	
Trp	Asn	Asp	Phe	Ser	His	Arg	Val	Gly	Leu	Val	Gly	Leu	Pro	Ile	Asn
			100					105					110		
Ala	Val	Leu	Asp	Trp	Ser	Met	Gly	Thr	Pro	Ser	Gly	Tyr	Ala	Ala	Tyr
		115					120					125			
Leu	Asp	Pro	Glu	Ile	Asn	Arg	Met	Val	Lys	Lys	Ile	Leu	Ser	Ala	Trp
	130					135					140				
Gly	Asp	Tyr	Leu	Lys	Ser	Pro	Lys	Ser	Ala	Ser	Val	Leu	Asn	Asp	Thr
145					150					155					160
Ser	Ser	Gly	Trp	Phe	Gly	Ser	Thr	Ala	Arg	Ser	Asp	Leu	Glu	Glu	Val

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<210> 30625
<211> 98
<212> PRT
<213> A.fumigatus
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<210> 30626
<211> 86
<212> PRT
<213> A.fumigatus
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<400> 30626
Arg Arg Thr Gly Ala Ser Leu Val Phe Asn Leu Asp Val Thr Gln Trp
1          5          10          15
Arg Ser Ala Asp Glu Asn Glu Gly Lys Gly Asp Ala Met Asp Gly Phe
          20          25          30
Ile Trp Val Ser Phe Ser His Gly His Glu Lys Glu Glu Gln Arg Trp
          35          40          45
Lys Gly Lys Ala Arg Cys Ala Ala Val Ala Leu Ala Gly Leu Gln Cys
          50          55          60
Leu Glu Tyr Gln Gln Thr Gln Lys Gly Ile Ile Thr Ile Phe Trp Val
65          70          75          80
Glu Pro Leu Val Asn Val
          85

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<210> 30627
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 30627
 Thr Ala Ser Pro Ala Pro Asn Ala Ala Ser Pro Ser Ser Ala Ser Asp
 1 5 10 15
 Thr Lys Lys Leu Asn Thr Glu Ile Tyr Val Ala Asp Gly Asp Tyr Ile
 20 25 30
 Lys Asp Ile Glu Ile Asn Asp Leu Arg Asn Arg Tyr Thr Leu Thr Lys
 35 40 45
 Gly Ser Thr Gln Lys Met Val Ile Ile Pro Phe Cys Val Cys
 50 55 60

<210> 30628
 <211> 64
 <212> PRT
 <213> A.fumigatus

<400> 30628
 Asn Pro Pro Leu Tyr Leu His Val Thr Ser Thr Thr Lys Glu Gly Leu
 1 5 10 15
 Glu Lys Ala Val Ala Leu Ile Asp Glu Leu Met Gln Lys Glu Leu Pro
 20 25 30
 Asn Leu Val Asp Glu Arg Arg Phe Arg Arg Arg Glu Pro Asp Gln Val
 35 40 45
 Glu Arg Asp Glu Tyr Gly Arg Val Cys Ser Arg Ser Leu Val His Ile
 50 55 60

<210> 30629
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 30629
 Glu Gly Ala Asn Cys Val Gln Arg Lys Trp Pro Glu Glu Arg Ile Pro
 1 5 10 15
 Val Asp Leu Glu Pro Ile Pro Gly Phe Asn Leu Arg Ala Gln Val Val
 20 25 30
 Gly Gln Gly Gly Ala Tyr Val Lys His Ile Gln Gln Lys Thr Arg Cys
 35 40 45
 Lys Val Gln Ile Lys Gly Arg Gly Ser Gly Phe Leu Glu Pro Ser Thr
 50 55 60
 Gly Arg Glu Ser Asp Glu Pro Met Phe Leu His Val Ala
 65 70 75

<210> 30630
 <211> 154
 <212> PRT
 <213> A.fumigatus

<400> 30630
 Val Cys Ser Ala Ala Trp Ile Leu Pro Arg Leu Thr Asp Leu Thr Leu
 1 5 10 15
 Ala Ala Asp Phe Gly Phe Cys Ala Lys Leu Thr Glu Ser Lys Ser Lys

<212> PRT

<213> A.fumigatus

<400> 30633

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Leu Val Ala Pro Thr Ser Thr Ser Ser Gly Gly Arg Tyr Glu Val Gln
1           5           10           15
Ser Val Gly Arg Lys Gly Thr Ser Lys Arg Thr Asp Asn Glu Ala Pro
          20           25           30
Gln Met Arg Lys Ser Leu Gly Thr Thr Arg Ala Thr Thr Asp Glu Asp
          35           40           45
Val Leu Glu Lys Trp Asp Glu Gly Leu Ser Asp Asp Ser Asn Ser Ser
          50           55           60
Ser Asn Asp Glu Asp Thr Ile Glu Thr Gln Gly Ile Leu Pro Glu Asn
65           70           75           80
Arg Pro Ser Leu Val Ser Phe Glu Val Leu Asn Ala Phe Arg Glu Leu
          85           90           95
Lys Asp Gln Phe Asp Glu Lys Phe His Ala Ile Phe Ala
          100           105

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<210> 30634

<211> 127

<212> PRT

<213> A.fumigatus

<400> 30634

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Cys Leu Lys Leu Gln Lys Ser Cys Ile Gln Asp Thr Phe Asp Thr Ala
1           5           10           15
Ser Gln Leu Ile Thr Tyr Leu Thr Asp Met Asn Pro Ser Gly Ser Ser
          20           25           30
Ser Ile Gly Gly Asn Arg Ser Glu Ser Thr Pro Arg Arg Val Ser
          35           40           45
Gly Thr Val Trp His Pro Ala Arg Glu Trp Leu Glu Gln Asp Glu Glu
          50           55           60
Glu Asp Asp Met Asp Tyr Glu Pro Glu Ser Glu Val Thr Glu Asp Arg
65           70           75           80
Asp Glu Asp Gly Tyr Glu Asn Glu Asp Gln Asn Glu Asp Glu Asp Glu
          85           90           95
Gly His Phe Gly Ser Phe Ala Arg Asn Gly Leu Leu Phe Leu Ser Tyr
          100           105           110
Glu Thr Asn Leu Gly Ser Asn Asp Leu Lys Thr Leu Thr Cys Val
          115           120           125

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<210> 30635

<211> 145

<212> PRT

<213> A.fumigatus

<400> 30635

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Val Leu Asp Leu Leu Arg Arg Lys Arg Ser Phe Val Leu Ile Trp Trp
1           5           10           15
Ala Ser Gln Asp Leu Ile Pro Gly Ser Ala Ala Asp Lys Ile Ile His
          20           25           30
Tyr Asp Ser Arg Cys Tyr Ser Gly Gln Phe Ser Asp Asp Gly Asn Phe
          35           40           45
Phe Phe Cys Cys Ala Gln Asp Phe Lys Val Arg Met Tyr Asp Thr Ser
          50           55           60

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Asn Pro Phe Glu Trp Lys Tyr Tyr Lys Thr Val Asp Tyr Pro Phe Gly
 65 70 75 80
 Gln Trp Thr Ile Thr Asp Ala Ser Leu Ser Pro Asp Asn Lys Phe Leu
 85 90 95
 Ala Tyr Thr Ser Ile Arg Asn Ile Val Cys Leu Ala Pro Thr Asp Pro
 100 105 110
 Ala Asp Gln Ser Asp Pro Ser Val Leu Asp Leu Ser Leu Gly Arg Val
 115 120 125
 Gly Arg Gly Phe His Asp Ser Ser His Ser Ala Val Arg Ile Pro Ile
 130 135 140
 Lys
 145

<210> 30636
 <211> 89
 <212> PRT
 <213> A.fumigatus

<400> 30636
 Ser Thr Thr Leu His Ser Thr Ile Thr Tyr Ile Phe Phe Leu Asn His
 1 5 10 15
 Asn Thr Phe Ala Tyr Leu Glu Asn Gly Ser Pro Asp Glu Ser Arg His
 20 25 30
 Pro Thr Asn Ser Arg Thr His Ser Leu Lys Ser Ala Ser Val Glu Ala
 35 40 45
 Ser Pro His Ser Phe Gln Gln Ile Phe Ser Glu Ile Val Asp Lys Ile
 50 55 60
 Pro Lys Ile Lys Glu Phe Thr Glu Leu Ile Tyr Glu Asn Ile Thr Arg
 65 70 75 80
 Lys Met Val His Trp Ser Val Ser His
 85

<210> 30637
 <211> 67
 <212> PRT
 <213> A.fumigatus

<400> 30637
 Lys Leu Leu Phe Trp Ala Lys Thr Met Ile Tyr Val Leu Phe Asp Tyr
 1 5 10 15
 Leu Gly Ala Met Asp Ser Cys Ser Leu Leu Met Cys Asp Ala Phe Ser
 20 25 30
 Leu Arg Thr Ile Leu Met Tyr Met Gln Pro Asn Lys Asp Met Val Glu
 35 40 45
 Asp Ile Asp Ile Ile Lys Arg Asp Thr Pro Ala Phe Asp Gln Lys Leu
 50 55 60
 Ser Phe Pro
 65

<210> 30638
 <211> 270
 <212> PRT
 <213> A.fumigatus

<400> 30638
 Ser Glu Arg Thr Gln Leu His Arg Lys Asn Met Met Pro Ala Phe Thr

[illegible]

<210> 30640
 <211> 231
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (26)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30640
 Cys Leu Leu Asp Ser Gln Gln His Ile Lys His Trp Asn Phe Val Ala
 1 5 10 15
 Asn Phe Pro Val Phe Phe Leu Phe Leu Xaa Leu Ile Tyr Phe Pro Thr
 20 25 30
 Met Ser Glu Leu Pro Ser Ser Gln Pro Ala Ile Ile Glu Ser Asp Asp
 35 40 45
 Gly Thr Leu Gly Leu Arg Asn Asp Val Gln Met Pro Ser Leu Glu Asp
 50 55 60
 Asp Met Ile Leu Val Arg Asn Ala Phe Val Ala Leu Asn Pro Ile Asp
 65 70 75 80
 Thr Lys Met Val Gly Lys Leu Ala Ser Pro Gly Ala Ile Ala Gly Lys
 85 90 95
 Asp Phe Ala Gly Glu Val Val Ser Ile Gly Pro Lys Val Gln Thr Ala
 100 105 110
 Ala Pro Ile Lys Pro Gly Asp Arg Ile Cys Gly Ala Val Pro Gly Met
 115 120 125
 His Ser Leu Thr Pro Ala Val Gly Ala Phe Ala Gln Tyr Val Gly Ala
 130 135 140
 Thr Asp Leu Thr Ala Ile Lys Ile Pro Glu Tyr Met Ser Leu Glu Glu
 145 150 155 160
 Ala Val Thr Leu Gly Ser Gly Ile Gly Thr Ile Gly Leu Ala Leu Phe
 165 170 175
 Lys Ser Leu Asp Val Pro Gly Ser Pro Trp Leu Pro Ala Asp Lys Pro
 180 185 190
 Val Asp Val Leu Val Tyr Gly Gly Ser Thr Ala Thr Gly Thr Leu Ala
 195 200 205
 Ile Gln Leu Leu Lys Leu Tyr Val Thr Val Ser Val Cys Tyr Ser Leu
 210 215 220
 Arg Ser Lys Tyr Leu Leu Thr
 225 230

<210> 30641
 <211> 148
 <212> PRT
 <213> A.fumigatus

<400> 30641
 Pro Ser Arg Ser Gly Val Asn Pro Ile Thr Thr Cys Ser Pro Thr Lys
 1 5 10 15
 Phe Asp Leu Val Lys Ser Tyr Gly Ala Thr Ala Ala Phe Asp Tyr Arg
 20 25 30
 Gln Lys Thr Cys Ala Asp Asp Ile Arg Lys Tyr Thr Arg Asn Ser Leu
 35 40 45
 Lys Phe Val Leu Asp Cys Ile Ser Glu Pro Glu Thr Met Gln Phe Cys

50 55 60
 Tyr Lys Cys Leu Gly Arg Trp Gly Gly Gly Glu Tyr Thr Ala Leu
 65 70 75 80
 Glu Pro Tyr Arg Lys Phe Val His Thr Arg Pro Lys Thr Val Val Pro
 85 90 95
 Asp Trp Val Leu Gly Pro Thr Leu Leu Gly Lys Arg Leu Asn Trp Pro
 100 105 110
 Glu Pro Phe Gly Gly Glu Gly Asn Glu Glu Tyr Arg Arg Phe Gly Phe
 115 120 125
 Lys Trp Phe Lys Leu Val Gln Glu Leu Ala Gly Ser Arg Glu Val Glu
 130 135 140
 Asp Ala Ser Ala
 145

<210> 30642

<211> 282

<212> PRT

<213> A.fumigatus

<400> 30642

Arg Ile Tyr Ser Pro Ala Arg Ser Pro Arg Met His Pro Ala Asn Thr
 1 5 10 15
 Lys Asp Pro Ile Trp Ala Thr Val Glu Ser Ser Ala Phe Phe Ile Arg
 20 25 30
 Asp His His Thr Gly Asn Glu Ile Ile Ile Phe Gly Asp Val Glu Pro
 35 40 45
 Asp Cys Val Ser Leu Asp Pro Arg Asn Lys Arg Val Trp Glu Ala Ala
 50 55 60
 Ala Pro Lys Ile Ala Thr Gly Lys Leu Arg Ala Ile Phe Ile Glu Cys
 65 70 75 80
 Ser Tyr Asp Asp Ser Val Glu Asp Ala Thr Leu Tyr Gly His Leu Cys
 85 90 95
 Pro Arg His Leu Ile Ala Glu Leu Thr Leu Leu Ala Gly Lys Val Met
 100 105 110
 Glu Ala Arg His Pro Arg Met Ala Ile Ser Ser Ile Gly Lys Arg Lys
 115 120 125
 His Ser Asp Ser Asn Arg Tyr Gly Gly Ser Gly Gly Gln Val Ser Pro
 130 135 140
 Lys Ser Lys Arg Phe Gln Ser Phe Ser Val Ala Ala Gly Lys Arg Ala
 145 150 155 160
 Asp Met Asp Ser Val Thr Val Asp Met Arg Pro Arg Phe Tyr Ser Thr
 165 170 175
 Ala Glu Gly Leu Ala Glu Ile Pro Glu Leu Val His Asp Glu Pro Thr
 180 185 190
 Pro Ser Tyr His Glu Pro Asp Asp Val Ser Asp Thr Glu Asn Ser Val
 195 200 205
 Asp Pro Ala Pro Gln Ser Thr Ser Pro Gly Glu Ala Gln Thr Ser Asp
 210 215 220
 Ser Gly Gln Leu Pro Leu Ser Gly Leu Ser Ile Tyr Ile Ile His Ile
 225 230 235 240
 Lys Glu Asp Leu Thr Asp Asp Ile Pro Pro Arg Glu Arg Ile Leu Gln
 245 250 255
 Gln Leu Arg Ser Arg Gly Glu Ala Ala Arg Leu Gly Cys Glu Phe Tyr
 260 265 270
 Ala Pro His Arg Gly Glu Gly Ile Trp Val
 275 280

<210> 30643
 <211> 139
 <212> PRT
 <213> A.fumigatus

<400> 30643
 Leu Thr Ser Cys Leu Met Lys Gly Pro Thr Gly Gly Pro Arg Glu Asp
 1 5 10 15
 Ser Leu Thr Gly Leu Leu Val Arg Ser Thr Ser Thr Asn Trp Ser Thr
 20 25 30
 Asn Ser Val Ile Ala Val Asp Ala Gly Thr Leu Val Ser Gly Ile Ile
 35 40 45
 His Thr Leu Glu Gln Tyr Asn Ala Glu Leu Arg Asp Gly Ser Tyr Met
 50 55 60
 Met Asn Glu Gly Pro Phe Ala Gly Leu Arg Met Pro Tyr Lys Ser Ala
 65 70 75 80
 Gln Ala Asn Ala Ala His Ile Phe Arg Asp Ile Ile Gly Ala Val Leu
 85 90 95
 Ile Thr His Ala His Leu Asp His Leu Ser Gly Leu Ala Ile Asn Thr
 100 105 110
 Pro Met Leu Glu Ala Gly Asn Gly Pro Lys Pro Leu Ala Ala Leu Pro
 115 120 125
 Val Asn Cys Arg Cys His Lys Lys Pro Tyr Ala
 130 135

<210> 30644
 <211> 191
 <212> PRT
 <213> A.fumigatus

<400> 30644
 Thr Cys Ala Leu Ser Arg Ile Gln Ile Pro Trp Pro Arg Ala Ser Ile
 1 5 10 15
 Lys Arg Ala Gly Ile Asn Ser Phe Gly His Gly Gly Thr Ser Cys His
 20 25 30
 Ile Ile Ile Glu Asp Ala Gln Gln Leu Leu Asp Ala Arg Gly Ile Ile
 35 40 45
 Pro His Gly Arg Ser Phe Leu Ser Thr Ser Thr Ser Ser Trp Met Asp
 50 55 60
 Glu Asp Asp Asp Glu Asp His Ala Ala Ser Gln Ser Thr Pro Cys Thr
 65 70 75 80
 Ser His Ile Leu Leu Ile Ser Ala Gln Asp Pro Leu Ser Leu Arg Cys
 85 90 95
 Asn Glu Arg Glu Ile Leu Arg His Leu Ala Ser Leu Asp Val Arg Val
 100 105 110
 Asp Leu Gly Asn Leu Ala Tyr Thr Leu Ser His Arg Arg Ser His His
 115 120 125
 Cys His Arg Ala Tyr Ala Val Thr Ser Ser Ala Leu Ser Gln Ala
 130 135 140
 Arg Phe Val Asp Gly Lys Ile Leu Ala Arg Glu Pro Arg Ile Gly Phe
 145 150 155 160
 Val Phe Thr Gly Gln Gly Ser Gln Trp Pro Gln Asp Gly Asp Cys Thr
 165 170 175
 His Gln Ile Ile Pro Arg Ser Cys Glu Ala His Gln Ala Pro Gly
 180 185 190

<210> 30645
 <211> 146
 <212> PRT
 <213> A.fumigatus

<400> 30645
 Pro Leu Lys Arg Met Arg Arg Ser Gly Asp Lys Ala Glu Met Asp Pro
 1 5 10 15
 Gln Thr Ile Ser Lys Tyr Phe Ile Gly Leu Glu Asp Arg Val His Ile
 20 25 30
 Ala Cys His Asn Ser Pro Thr Asn Val Thr Leu Ala Gly Val Leu Ser
 35 40 45
 Ala Leu Glu Glu Val Gln Ala Arg Leu Arg Gln Asp Asp His Ala Cys
 50 55 60
 Arg Met Leu Gln Val Asp Ile Pro Tyr His Ser Lys Phe Val Ala Ala
 65 70 75 80
 Thr Ala Glu Ala Phe Glu Gln Phe Thr Leu Gln Glu Arg Pro Leu Val
 85 90 95
 Gln Glu Leu Gly Cys Ser Gly Gly Val Thr Asn Ala Val Asp Arg His
 100 105 110
 Trp Gln Pro Ile Gly Gly Pro Asp Leu Gln Gln Leu Ile Leu Glu Ser
 115 120 125
 Gln Leu Gly Val Ser Ser Phe Ile Pro Ser Arg Asn Gly Ser Tyr Pro
 130 135 140
 Pro Ser
 145

<210> 30646
 <211> 118
 <212> PRT
 <213> A.fumigatus

<400> 30646
 Ala Ala Ala Glu Ala Ser Gln Met Leu Ser Thr Val Thr Gly Ser Arg
 1 5 10 15
 Leu Glu Gly Arg Thr Cys Asn Ser Ser Tyr Trp Arg Ala Asn Leu Glu
 20 25 30
 Ser Pro Val Leu Phe Arg His Ala Met Glu Ala Ile Leu Arg His Asp
 35 40 45
 Gln His Pro Asp Ile Leu Ile Glu Ile Gly Pro Ser Asp Thr Leu Arg
 50 55 60
 Arg Pro Val Met Lys Pro Lys His Ser Leu Gly Gln Gly Asp Gly Pro
 65 70 75 80
 Leu Lys Asp Thr Asp Ile Gln Tyr Leu Ser Ala Leu His Arg Gly Asp
 85 90 95
 Met Ser Ala Asp His Met Leu His Ile Val Tyr Thr Pro Gly Met Glu
 100 105 110
 Val Leu Ser Pro Pro Gly
 115

<210> 30647
 <211> 101
 <212> PRT
 <213> A.fumigatus

<400> 30647

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Asn Cys Thr Asp Glu Leu Thr His Ala Arg Asp Pro Glu Val Val Arg
1           5           10           15
Arg Pro Glu Phe Ser Glu Pro Leu Ser Ala Ala Leu Glu Leu Ala Ile
          20           25           30
Leu Ala Val Met Glu Asn His Ser Val Arg Pro His Trp Val Val Gly
          35           40           45
His Ser Ser Gly Glu Ile Ala Ala Ala Tyr Val Ala Gly Phe Leu Pro
          50           55           60
Leu Glu Asp Ala Ile Lys Ile Ala Tyr Phe Arg Gly Gln Ala Ala Gln
65           70           75           80
Gly Ala Cys Asp Thr Val Lys Glu Arg Met Gly Met Thr Pro Glu Ala
          85           90           95
His Glu Lys Glu Arg
          100

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<210> 30648

<211> 72

<212> PRT

<213> A.fumigatus

<400> 30648

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Leu Gly Val Pro Gly Ile Glu Pro Ser Ser Met Asp Asn Thr Ile Leu
1           5           10           15
Ile Arg Pro Asp Ser Pro Asp Val Ala Ser Glu Ser Pro Arg Leu Leu
          20           25           30
Phe Ile Tyr Asn Ala Gly Glu Val Asn His Leu Asn Gly Tyr Phe Val
          35           40           45
Val Glu Asp Leu Thr Glu Pro Thr Met Ser Gly Ser Ser Met Leu Val
          50           55           60
Phe Thr His Ser Thr Ala Pro Ile
65           70

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<210> 30649

<211> 459

<212> PRT

<213> A.fumigatus

<400> 30649

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Leu Ala Met Ala Ile Ser Ala Thr Ile Ser Gly Ala His Ala Ile Leu
1           5           10           15
Leu Ala Thr Gln Phe Cys Ala Thr Gly Asn Val Val His Leu Pro Leu
          20           25           30
Leu His Ala Gln Phe Pro Ser Tyr Leu Ser Leu Glu Arg Leu Leu Arg
          35           40           45
Ile Ile Leu Thr Phe Leu Pro Glu Ser Ile Glu Pro Gln Ala Tyr Thr
          50           55           60
Ser Val Leu Gln Glu Leu Val Ser Gly Ser Ser Ile Gly Pro Thr Glu
65           70           75           80
Gly Asp Val Asp Val Ser Ala Val Gln Asp Leu Pro Glu Thr Val Ala
          85           90           95
Arg Lys Arg Val Arg Lys Leu Arg Leu Leu Pro Leu Arg His Pro Asp
          100           105           110
Asp Glu Asp Ser Glu Pro Ser Asp Leu Leu Thr Gln Phe Leu Ile His
          115           120           125
Arg Ser His Arg Ile Asp Ser Glu Thr Gly Leu Gln Pro Leu Ile Leu

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130 135 140
 Asp Leu Leu Leu Pro Phe Tyr Gln Arg Ser Thr Thr Val Arg Thr Trp
 145 150 155 160
 Leu Ile Ser Ser Ile Leu Pro Leu Leu Arg Leu Asn Cys Glu Tyr Tyr
 165 170 175
 Pro Ser Gln Asp Glu Met Phe Ser Leu Asn Thr Leu Glu Ser Met Asp
 180 185 190
 Asp Ala Thr Ala Val Asn Val Leu Leu Ser Met Thr Ser Pro Arg Lys
 195 200 205
 Asp Lys Met Asp Ile Ala Arg Asn Leu Arg Gly Leu Val Gly Ala Trp
 210 215 220
 Ile Tyr Gly Ser Asn Arg Ala Lys Arg Arg Arg Leu Ser Glu Ala Ala
 225 230 235 240
 Asn Gln Ser Ala Ile Ser Leu Ser Pro Asp Asn His Arg Pro Lys Thr
 245 250 255
 Thr Thr Asp Ser Ile Trp Gln Gln Val Asn Glu Trp Leu Leu Ser His
 260 265 270
 Ser Leu Val Glu His Asp Thr Thr Val Asn Ala Phe Val His Trp Asp
 275 280 285
 Gly Pro Gly Asp Val Asp Leu Gly Gly Tyr Glu Glu Glu Asn Gln Gln
 290 295 300
 Pro Thr Gln Asp Glu Leu Thr Glu Met Arg Thr Arg Tyr Gly Gln Thr
 305 310 315 320
 Gly Leu Ala Val Val Tyr Ala Asn Pro Asp Thr Ser Ser Ser Ser Leu
 325 330 335
 Gly Arg Phe Asn Ala Asp Cys Cys Glu Gly Gly Ser Val Thr Gln Ser
 340 345 350
 Pro Gly Leu Ser Val Cys Ser Pro Gln Gly Phe Ser Ala Pro Phe Gly
 355 360 365
 Asp Phe Arg Cys Gly Arg Asp Pro Val His Ile Lys Ser His Ile Val
 370 375 380
 Thr Lys Cys Leu Thr Thr Glu Phe Glu Ser Val Asp Ala Ser Val Cys
 385 390 395 400
 Phe Val Gly Leu Val Leu Glu Arg Thr Thr Ser Leu Phe Ala Gly Ala
 405 410 415
 Ala Trp Asn Gly Arg Phe Asn Thr Leu Gln Ala Ser Cys Lys Pro Val
 420 425 430
 Leu Ala Gln His Arg Gly His Ala Thr Cys Arg Ala Ser Gln Tyr Gly
 435 440 445
 Trp Phe Gly Cys Gln Ala Gly His Ser Trp Ser
 450 455

<210> 30650

<211> 140

<212> PRT

<213> A.fumigatus

<400> 30650

Leu Ile Thr Tyr Leu Ala Pro Cys Asn Gly Asp Cys Ala Thr Val Asp
 1 5 10 15
 Lys Thr Thr Leu Lys Phe Val Lys Ile Ala Ala Gln Gly Leu Ile Asp
 20 25 30
 Gly Ser Asn Pro Pro Gly Val Trp Ala Asp Asp Glu Met Ile Ala Asn
 35 40 45
 Asn Asn Thr Ala Thr Val Thr Ile Pro Ala Ser Tyr Ala Pro Gly Asn
 50 55 60

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Tyr Val Leu Arg His Glu Ile Ile Ala Leu His Ser Ala Gly Asn Leu
 65 70 75 80
 Asn Gly Ala Gln Asn Tyr Pro Gln Cys Phe Asn Ile Gln Ile Thr Gly
 85 90 95
 Gly Gly Ser Ala Gln Gly Ser Gly Thr Ala Gly Thr Ser Leu Tyr Lys
 100 105 110
 Asn Thr Asp Pro Gly Ile Lys Phe Asp Ile Tyr Ser Asp Leu Ser Gly
 115 120 125
 Gly Tyr Pro Ile Pro Gly Pro Ala Leu Phe Asn Ala
 130 135 140

<210> 30651
 <211> 100
 <212> PRT
 <213> A.fumigatus

<400> 30651
 Thr Thr Gln Met Thr Ala Ala Thr Ala Asn Phe Tyr Ser Ser Tyr Gly
 1 5 10 15
 Gly Tyr Leu Val Asn Gln Tyr Pro Tyr Met Ser Asn Pro Pro Asp Thr
 20 25 30
 Ile Ala Trp Ser Thr Thr Ala Thr Asp Leu Gly Phe Val Asp Gly Thr
 35 40 45
 Gly Tyr Gln Ser Pro Asp Ile Ile Cys His Arg Asp Ala Lys Asn Gly
 50 55 60
 Lys Leu Thr Ala Thr Val Ala Ala Gly Ser Gln Ile Glu Phe Gln Trp
 65 70 75 80
 Thr Thr Trp Pro Glu Ser His His Gly Pro Val Arg Arg Arg Arg Glu
 85 90 95
 Glu Asn Ile Met
 100

<210> 30652
 <211> 231
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (172), (203)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30652
 Pro Thr Ser Cys Thr His Ile Thr Gly Arg Thr Gln Pro Leu Arg Thr
 1 5 10 15
 Ala Thr Val Gly Ala Ser Gly His Ala Arg Ile Thr Tyr Pro Ser Glu
 20 25 30
 Trp Thr Ala Pro Leu Arg Thr Gly Gln Ser Ser Arg Ala Ser Thr Pro
 35 40 45
 Pro Lys Ser Gln Arg Cys Thr Lys Ile Ser Arg Pro His Pro Thr Thr
 50 55 60
 Cys Cys Ser Gly Ser Thr Thr Ser Thr Thr Pro Ser Val Cys Thr Pro
 65 70 75 80
 Ala Lys Pro Ser Ser Ser Thr Ser Thr Met Arg Ile Thr Pro Ala Pro
 85 90 95
 Arg Arg Leu Lys Pro Ser Ser His Ser Gly Ser Arg Ser Glu Asn Ala

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<210> 30653
<211> 378
<212> PRT
<213> A.fumigatus
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<400>	30653															
Ser	Phe	Gln	Pro	Arg	Gly	Glu	Asp	Leu	Asp	Arg	Asn	Ser	Lys	Met	Val	
1				5					10					15		
Cys	Thr	Arg	Ile	Leu	Gly	Lys	His	Ala	Ser	Val	Lys	Ser	Thr	Gly	Cys	
			20					25					30			
Ser	Thr	Asp	Ser	Ser	Ile	Ile	Val	Gly	Thr	Val	Glu	Ala	Tyr	Arg	Gln	
		35					40					45				
Val	Cys	Asn	Ala	Gly	Arg	Gln	Val	Pro	Gln	Leu	Asp	Val	Asp	Gly	Phe	
	50					55					60					
Trp	Leu	Ser	Ile	Arg	Glu	Lys	Ser	Val	Leu	Ile	Val	Gly	Gln	Ser	Glu	
65					70					75					80	
Arg	Gly	Ala	Leu	Tyr	Gly	Ala	Tyr	Glu	Tyr	Leu	Ser	Met	Leu	Ala	Gln	
				85					90					95		
Gly	Asn	Phe	Ser	Gln	Val	Ser	Tyr	Ala	Thr	Ser	Pro	His	Ala	Pro	Ile	
			100					105					110			
Arg	Trp	Val	Asn	Gln	Trp	Asp	Asn	Met	Asp	Gly	Ser	Ile	Glu	Arg	Gly	
		115				120						125				
Tyr	Gly	Gly	Pro	Ser	Ile	Phe	Phe	Lys	Asp	Gly	Val	Ile	Arg	Gln	Asp	
	130					135					140					
Leu	Ser	Arg	Val	Gln	Gln	Tyr	Ala	Arg	Leu	Leu	Ala	Ser	Val	Arg	Ile	
145					150					155					160	
Asn	Gly	Ile	Ile	Val	Asn	Asn	Val	Asn	Ala	Asn	Ala	Ser	Leu	Leu	Met	
				165					170					175		
Pro	Ser	Asn	Met	Asp	Gly	Leu	Ala	Arg	Ile	Ala	Asp	Ile	Phe	Arg	Pro	
			180					185					190			
Tyr	Gly	Ile	Arg	Val	Gly	Ile	Ser	Leu	Asn	Phe	Ala	Ser	Pro	Ser	Thr	
		195				200						205				
Leu	Gly	Asn	Leu	Ser	Thr	Tyr	Asp	Pro	Phe	Asp	Ser	Ser	Val	Ile	Ala	
	210					215						220				
Trp	Trp	Gly	Asn	Val	Thr	Asp	Gln	Leu	Tyr	Ala	Arg	Ile	Pro	Asp	Met	
225					230					235					240	
Ala	Gly	Tyr	Leu	Val	Lys	Ala	Asn	Ser	Glu	Gly	Gln	Pro	Gly	Pro	Thr	
				245					250					255		

Thr Tyr Asn Arg Thr Leu Ala Asp Gly Ala Asn Met Phe Ala Arg Ala
 260 265 270
 Leu Lys Pro Tyr Gly Gly Val Val Met Phe Arg Ala Phe Val Tyr Asp
 275 280 285
 His His Ile Ser Glu Asp Asn Trp Tyr Asn Asp Arg Ala Asn Ala Ala
 290 295 300
 Val Asp Phe Phe Lys Pro Leu Asp Gly Lys Phe Asp Asp Asn Val Val
 305 310 315 320
 Leu Gln Ile Lys Tyr Gly Pro Ile Asp Phe Gln Val Arg Glu Pro Ala
 325 330 335
 Ser Pro Leu Phe Ala Asn Leu Phe Lys Thr Asn Thr Ser Ile Glu Leu
 340 345 350
 Gln Arg Asn Pro Gly Glu Ser Pro Thr Ala Val Thr Ser Gly Val Leu
 355 360 365
 Ala Ser Thr Leu Ala Asn Asp Pro Gly Val
 370 375

<210> 30654

<211> 484

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (353), (384)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30654

Thr Phe Ser Ser Arg Leu Met Ala Asn Leu Thr Thr Met Trp Tyr Cys
 1 5 10 15
 Arg Ser Ser Thr Asp Pro Leu Thr Ser Arg Ser Ala Ser Pro Pro Arg
 20 25 30
 Pro Cys Leu Pro Thr Cys Ser Arg Pro Thr His Gln Ser Ser Cys Lys
 35 40 45
 Gly Thr Gln Glu Asn Leu Arg Gln Gln Ser His Leu Val Tyr Leu Pro
 50 55 60
 Pro Leu Trp Gln Thr Ile Leu Gly Phe Asp Leu Arg Val Asp Gln Lys
 65 70 75 80
 Pro Pro Leu Val Arg Asp Ile Ile Ser Gly Gln Arg Phe Asp Arg Pro
 85 90 95
 Leu Gly Gly Trp Ala Ala Val Val Asn Val Gly Thr Asn Ser Thr Trp
 100 105 110
 Leu Gly Ser His Leu Ala Met Ser Asn Leu Tyr Ala Tyr Gly Arg Leu
 115 120 125
 Ala Trp Glu Pro Thr Leu Asp Ser Glu Asp Ile Val Gln Asp Trp Ile
 130 135 140
 Arg Leu Thr Phe Gly Leu Asp Arg Arg Ile Val Asp Thr Leu Thr Gln
 145 150 155 160
 Met Ser Met Glu Ser Trp Pro Ala Tyr Glu Asn Tyr Ser Gly Asn Leu
 165 170 175
 Gly Ile Gln Thr Leu Thr Asp Ile Leu Tyr Thr His Tyr Gly Pro Asn
 180 185 190
 Pro Ala Ser Gln Asp Gly Asn Gly Trp Gly Gln Trp Thr Arg Ala Asp
 195 200 205
 His Leu Ser Ile Gly Met Asp Arg Thr Val Lys Asn Gly Thr Lys Phe
 210 215 220

Ser Gly Gln Tyr Pro Ala Glu Val Ala Ala Met Tyr Glu Asn Ile Glu
 225 230 235 240
 Thr Thr Pro Asp Asn Leu Leu Leu Trp Phe His His Val Asn Tyr Thr
 245 250 255
 Gln Arg Leu His Ser Gly Lys Thr Val Ile Gln His Phe Tyr Asp Ala
 260 265 270
 His Tyr Thr Gly Ala Glu Thr Ala Gln Thr Phe Val Ser Gln Trp Glu
 275 280 285
 Ser Leu Arg Glu Arg Ile Asp Ala Glu Arg Tyr Gln His Val Leu Thr
 290 295 300
 Arg Leu Ile Tyr Gln Ala Gly His Ser Ile Val Trp Arg Asp Ala Ile
 305 310 315 320
 Asn Asn Phe Tyr His Asn Leu Ser Gly Ile Ala Asp Glu Lys Gln Arg
 325 330 335
 Val Gly His His Pro Trp Arg Val Glu Ala Glu Asp Met Gln Leu Asp
 340 345 350
 Xaa Tyr Val Pro Tyr Ala Val Ser Pro Phe Glu Thr Ala Ser Lys Tyr
 355 360 365
 Thr Ala Ile Val Thr Ala Ser Asn Gly Thr Thr Gly Thr Ala Ser Xaa
 370 375 380
 Thr Leu Asp Phe Lys Thr Gly Thr Tyr Asp Leu Gly Ile Asn Tyr Tyr
 385 390 395 400
 Asp Met Tyr Gly Gly Lys Ser His Trp Thr Val Tyr Leu Asn Asp Arg
 405 410 415
 Val Val Gly Gln Trp Gln Gly Asn Ser Glu Asp Val Leu Ser His Thr
 420 425 430
 Pro Ser Ile Tyr Leu Asp Gly His Ser Ala Thr Arg Ile Thr Phe Arg
 435 440 445
 Asp Val Lys Ile His Lys Gly Asp Arg Leu Lys Ile Val Gly Lys Pro
 450 455 460
 Asp Gly Val Glu Pro Ala Pro Leu Asp Tyr Val Val Leu Pro Gln
 465 470 475 480
 Gly Ile Val Asp

<210> 30655

<211> 125

<212> PRT

<213> A.fumigatus

<400> 30655

Ala Ala Tyr Lys Leu Pro Tyr Thr Ser Gln Met Met Ala Gln Leu Met
 1 5 10 15
 Gln Gln Asn Gln Lys Val Leu Leu Leu Ile Pro Cys Ser Ile Thr Glu
 20 25 30
 Val Leu Leu Arg Ile Phe Asp His Glu Ser Ser Ser Gly Arg Arg Cys
 35 40 45
 Lys Gly Lys Gln Arg Gly Lys Glu Asp Tyr Leu Ala Gly Val Val Lys
 50 55 60
 Leu Leu Ser Ser Ala Trp Cys Thr Ile His His Ile Phe Leu Phe Arg
 65 70 75 80
 Cys Leu Cys Lys Arg Arg Glu Tyr Val His Arg Cys Ile Ile Phe Tyr
 85 90 95
 Ala Ile Ser Lys Leu Gly Ser Tyr Ser Pro Ile Thr Leu Gln Thr Phe
 100 105 110
 Leu Met Gly Thr Ser Gln Leu Arg Asp Arg Thr Gln Leu

115

120

125

<210> 30656

<211> 151

<212> PRT

<213> A.fumigatus

<400> 30656

Cys Arg Ser Phe Leu Gln Gly Met Ser Val Leu Gly Ser Pro His Ser
 1 5 10 15
 Leu Arg Pro Gly Met Gln Gly Ala Phe Pro Ser Ser Ser Asp Arg Pro
 20 25 30
 Asn Val Leu Ile Met Ser Cys Leu Asn Thr Ser Arg Ile Phe Ala Ile
 35 40 45
 Leu Phe Arg Pro Pro Pro Ser Pro Pro Leu Ser Glu Asn Ser Ile Met
 50 55 60
 Tyr Leu Thr Gln Ser Leu Thr Leu Val Ser Leu Ala Thr Ala Thr Leu
 65 70 75 80
 Ala Phe Gln Ile Pro Asp Ser Lys Pro Pro Ser Thr Lys His Thr Asp
 85 90 95
 Asp Gln Thr Thr Ser Pro Val Val Arg Asp Ile Phe Gln Phe Pro Asp
 100 105 110
 Asn Gly Ser Phe Ile Asp Asn Ile Ala Val Arg Pro Asp Gly Thr Leu
 115 120 125
 Leu Leu Thr Arg Ile Asp Val Pro Glu Val Trp Ala Val Asp Pro Gln
 130 135 140
 Thr Gly Ser Gly Glu Leu Ala
 145 150

<210> 30657

<211> 281

<212> PRT

<213> A.fumigatus

<400> 30657

Ser Phe Ala Gln Gln Ser Ser Asp Ser Asp Ser Asn Ser Asn Ser Asp
 1 5 10 15
 Ile Thr Ala Val Phe Gly Ile Thr Glu Val Glu His Asp Val Phe Ala
 20 25 30
 Val Val Ala Gly Lys Phe Ala Leu Glu Gly Phe Ala Ala Glu Gln Gly
 35 40 45
 Ser Phe Gly Val Trp Lys Leu Asp Phe Asn Asp Asn Ser Asn Tyr Asp
 50 55 60
 Val Leu Glu Leu Pro Trp Trp Gly Glu Gly Lys Phe Pro Leu Thr Arg
 65 70 75 80
 Asn Thr Pro Ser Glu Val Ser Lys Ile Val Asp Ile Pro Glu Ala Lys
 85 90 95
 Ala Leu Gly Ala Ser Thr Leu Tyr Lys Pro Arg His Asp Ala Arg Tyr
 100 105 110
 Leu Leu Ile Ser Asp Ser Pro Asp Gly Met Ile Trp Arg Val Asp Leu
 115 120 125
 Asp Ser Gly Glu Tyr Ala Val Ala Leu Gln Asp Glu Ser Met Leu Pro
 130 135 140
 Ala Pro Asp Ala Pro Pro Met Gly Val Asn Gly Ile His Val Val Gly
 145 150 155 160
 Glu Tyr Leu His Tyr Val Ser Val Thr Lys Lys Glu Tyr Arg Arg Val

11675

165 170 175
 Lys Ile Asp Glu Asn Ala Asn Ala Ala Gly Pro Phe Glu Leu Ile Thr
 180 185 190
 Ser Glu Ile Asp Pro Asp Ser Phe Asp Ile Thr Asp Asp Gly Thr Ala
 195 200 205
 Tyr Phe Ala Thr Asn Pro Glu Asn Thr Ile Val Lys Tyr Thr Pro Glu
 210 215 220
 Gly Glu Ile Val Asp Phe Ala Gly Gly Lys Asn Ser Thr Val Leu Pro
 225 230 235 240
 Gly Pro Thr Cys Cys Ala Leu Asp Lys Lys Gly Gln Thr Leu Tyr Val
 245 250 255
 Gly Thr Asn Gly Gly Leu Met Ala Pro Val Gly Gly Thr Tyr Lys Glu
 260 265 270
 Pro Gly Lys Ile Ala Ala Ile Ser Leu
 275 280

<210> 30658

<211> 109

<212> PRT

<213> A.fumigatus

<400> 30658

Ile His Pro Ala Tyr Ser Leu Phe Phe Ser Val His Leu His His His
 1 5 10 15
 His Ser Leu Lys Ile Pro Ser Cys Ile Ser Pro Arg Ala Ser His Trp
 20 25 30
 Cys Pro Trp Arg Gln Pro Pro Ser His Ser Arg Ser Pro Thr Pro Asn
 35 40 45
 His Pro Pro Leu Ser Thr Pro Thr Thr Lys Pro Pro Ala Pro Leu Ser
 50 55 60
 Ala Thr Ser Ser Asn Ser Gln Thr Thr Ala Pro Ser Leu Thr Thr Ser
 65 70 75 80
 Pro Ser Ala Gln Thr Ala Pro Ser Cys Ser Pro Ala Ser Thr Ser Pro
 85 90 95
 Lys Phe Gly Pro Trp Thr Arg Lys Pro Ala Pro Gly Ser
 100 105

<210> 30659

<211> 133

<212> PRT

<213> A.fumigatus

<400> 30659

Val Ala Arg Ile Ser Asn Arg Val Gly Ser Asp Ser Ala Tyr Gly Asp
 1 5 10 15
 Val Ala Gly Phe Leu Val Ala Asp Thr Thr Asn Lys Leu Leu Val Val
 20 25 30
 Ser Phe Arg Gly Ser Arg Thr Ile Asp Thr Trp Leu Ala Asn Leu Asp
 35 40 45
 Phe Gly Leu Asp Ser Ile Ser Asp Val Cys Ser Gly Cys Ala Val His
 50 55 60
 Lys Gly Phe Trp Lys Ser Trp Glu Val Val Ala Asn Ala Leu Thr Thr
 65 70 75 80
 Glu Leu Asn Ser Ala Leu Ala Thr Tyr Ser Gly Tyr Thr Val Val Phe
 85 90 95
 Thr Gly His Ser Phe Gly Ala Ala Leu Ala Thr Leu Gly Ala Ala Thr

11676

100 105 110
 Leu Arg Lys Ala Gly Ile Pro Val Glu Leu Val Ser His Pro Leu Ser
 115 120 125
 Asn Gln Val Arg Ala
 130

<210> 30660
 <211> 101
 <212> PRT
 <213> A.fumigatus

<400> 30660
 Leu Lys Tyr Gly Tyr Gly Ser Pro Arg Val Gly Asn Lys Ala Leu Ala
 1 5 10 15
 Thr Phe Ile Thr Gly Gln Gly Ser Asn Tyr Arg Val Thr His Thr Asn
 20 25 30
 Asp Ile Val Pro Arg Leu Pro Pro Arg Val Phe Gly Phe Ser His Ile
 35 40 45
 Ser Pro Glu Tyr Trp Ile Thr Ser Gly Asp Asn Ala Pro Val Thr Thr
 50 55 60
 Ser Asp Val Thr Val Val Gln Gly Ile Asp Ser Ser Gly Gly Asn Ala
 65 70 75 80
 Gly Glu Asp Ser Thr Ser Ile Glu Ala His Asn Trp Tyr Ile Gly His
 85 90 95
 Ile Asp Gly Cys Gln
 100

<210> 30661
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 30661
 Pro Thr Thr Gly Ala Glu His Leu Val Ala Thr Phe Lys Gly His Gly
 1 5 10 15
 Gly Asn Leu Ser Gly Tyr Leu Asp Ser Ile Ile Lys Ser Leu His Ile
 20 25 30
 Leu Arg Gln Ile Tyr Leu Gln Pro Met Gln Lys Leu Ile Phe Ile Arg
 35 40 45
 Trp Lys Leu Lys Gln Arg Thr Val Tyr Ile Met Pro Ile Ile
 50 55 60

<210> 30662
 <211> 100
 <212> PRT
 <213> A.fumigatus

<400> 30662
 Tyr Ser Trp Pro Gln Pro Ile Gly Phe Lys Phe Pro Leu Asp Leu Leu
 1 5 10 15
 Gln Arg Gln Ser Gly Thr Met Phe Thr Lys Lys Ser Ile Val Thr Leu
 20 25 30
 Leu Gly Gly Leu Ser Val Ala Leu Ala Gln Thr Ser Ser Glu Gln Tyr
 35 40 45
 Leu Ser Leu Ser Glu Ile Glu Ala Ala Gln Ala Thr Val Leu Pro His
 50 55 60

Ser Pro Val Ser Asn Val Lys Gly Leu Ala Phe Asp Arg Phe Val Asn
 65 70 75 80
 Ile Trp Leu Glu Asn Thr Val Cys Asp Ser Leu Leu Asn Ser Asn Cys
 85 90 95
 Gln Gly Leu Arg
 100

<210> 30663

<211> 508

<212> PRT

<213> A.fumigatus

<400> 30663

Arg Ser Val Leu Arg Thr Ser Phe Cys Val Leu Gly Leu Pro Ser Thr
 1 5 10 15
 Asp Leu Asp Gly Ala Glu Phe Gln Ser Leu His Ser Met Ile Phe Gln
 20 25 30
 Leu Ser Ser Lys Val Ile Ile Gly Arg Arg Arg Asn Ala Val Ser Gln
 35 40 45
 Ala Glu Glu Ala Lys Leu Gln Gln Thr Ser Leu Leu Val Ile Arg Gln
 50 55 60
 Leu Leu Gln Gly Pro Gly Gly Glu Glu Ile Ala Glu Ser Gly Ile Asp
 65 70 75 80
 Ser Phe Leu Val Asp Gln Leu Ser Ser Val Leu Asp Glu Gly Gly Ser
 85 90 95
 Ile Glu Leu Gln Gly Ala Ile Ile Asp Thr Leu Leu Ser Ala Leu Lys
 100 105 110
 Val Arg Phe Ala Gln Ala Tyr Leu Pro Pro Pro Pro Arg Pro Lys
 115 120 125
 His Gln Arg Ala Gln Ser Arg Glu Arg Leu Thr Ser Pro Ser Leu Leu
 130 135 140
 Ser Phe Thr Ser Asp Lys Ala Asp Arg Gly Ala Leu Pro Pro Val Pro
 145 150 155 160
 Pro Gln Pro Pro Ser Arg Leu Leu Glu Cys Leu Leu Lys Gly Ile Ser
 165 170 175
 Ser Lys Ser Ser Arg Asp Ile Val Glu Lys Trp Thr Leu Leu Leu Cys
 180 185 190
 Glu Val Leu Pro Leu Tyr Ser Gly Ser Leu Phe Gln Ile Leu Leu Met
 195 200 205
 Leu Val Glu Cys Phe Cys Lys Glu Ile Gln Leu Ser Tyr Thr Asn Leu
 210 215 220
 Gln Leu Ser Phe Arg Gln Thr Asp Gly Trp Pro Glu Asp Arg Ser Glu
 225 230 235 240
 His Val Thr Ile Thr Leu Leu Thr Gly Leu Glu Thr Cys Ile Ala Ala
 245 250 255
 Ala His Glu Arg Leu Leu Val Glu Glu Ala Asn Val Pro Ala Ala Lys
 260 265 270
 Ser Pro Asp His Ala His Gly Phe Gly Asn Met Val Ser Gly Val
 275 280 285
 Phe Ala Thr Asp Ser Asn Gln Gly Arg Ser Thr Ala Ala Asn Asn Arg
 290 295 300
 Leu Thr Val Leu Leu Cys Phe Gln Asp Ala Val Arg Leu Cys Phe Ser
 305 310 315 320
 Ile Trp Ser Trp Gly Ala Val Glu Arg Ser Gly Pro Pro Gln Asp Pro
 325 330 335
 Glu Ser Leu Ala Ser Phe Gln Tyr Thr Ser Leu Arg Met Arg Asn Arg

340 345 350
 Ser Arg Arg Ile Leu Glu His Leu Phe Thr Ala Glu Ala Leu Glu Cys
 355 360 365
 Leu Glu Thr Met Val Glu Met Trp Ser Arg Ala Asp Pro Asp Thr Ser
 370 375 380
 Pro Leu Ile Leu Ser Leu Leu His Thr Leu Asp Gly Ser Arg Pro Lys
 385 390 395 400
 Ile Thr Ile Pro Ala Ile Phe Asn Ala Ile Tyr Thr Arg Thr Asn Pro
 405 410 415
 Ala Ala Leu Glu Pro His Arg Lys Ser Ala Leu Thr Ser Asn Leu Thr
 420 425 430
 Glu Ser Glu Leu Ala Gly Phe Leu Val Thr Tyr Ala Arg Ser Leu Asp
 435 440 445
 Asp Asp Val Leu Asp Glu Ile Trp Thr Asp Cys Thr Thr Phe Leu Arg
 450 455 460
 Asp Val Leu Ser Asn Pro Phe Pro His Arg Gln Ile Leu Pro Arg Leu
 465 470 475 480
 Val Glu Phe Pro Ala Ile Leu Gly Ala Lys Met Glu Asn Thr Thr Phe
 485 490 495
 Arg Gln Gln Ser Asn Asp Glu Lys Gly Pro Arg Gly
 500 505

<210> 30664
 <211> 89
 <212> PRT
 <213> A.fumigatus

<400> 30664
 Gly Leu Tyr Arg Phe Leu Ile Ser Leu Arg Val Phe Arg Ile Val Ile
 1 5 10 15
 Leu Arg Leu Glu Asn Leu Leu Leu Arg Lys Glu Thr Leu Ser Glu Asn
 20 25 30
 Glu Gly Asp Asn Val Val Ile Ser Thr Asp Asp Tyr Lys Glu Cys Asn
 35 40 45
 Tyr Leu Leu Arg Thr Ile Tyr Asn Thr Leu Cys Ser Leu Ser Pro Asn
 50 55 60
 Gly Trp Met Ser Leu Leu Thr Gln Thr Leu Asn Pro Val Asp Lys Gln
 65 70 75 80
 Lys Asp Gly Ala Ser Glu Gly Gln Phe
 85

<210> 30665
 <211> 217
 <212> PRT
 <213> A.fumigatus

<400> 30665
 Arg Val Ile Ala Thr Val Thr Tyr Arg Ser Ala Arg Glu Trp Glu Lys
 1 5 10 15
 Arg Phe Gly Gly Lys Arg Ala Asp Ala Ser Lys Gln Pro Ala Leu Cys
 20 25 30
 Pro Asp Phe Leu Ile Glu Thr Tyr Leu Asp His Ala Gly Glu Lys Phe
 35 40 45
 Cys Leu Glu Tyr Asp Pro Asn Ser Leu Leu Tyr Val Ser Lys Ala Met
 50 55 60
 Asp Leu Phe Asp Leu Ser Arg Ser Gln Arg Ala Glu Thr Glu Lys Arg

11679

65		70		75		80									
Arg	Arg	Glu	Phe	Glu	Ala	Arg	Ile	Ala	Gln	Gly	Gly	Lys	Thr	Leu	Arg
		85							90					95	
Tyr	Asn	Asp	Ala	Ser	Cys	Ser	Leu	Thr	Leu	Pro	Glu	Lys	Pro	Tyr	Glu
		100							105					110	
Glu	Gln	Pro	Ser	Thr	Thr	Asp	Ser	Gly	Ser	Ser	Ala	Asp	Glu	Ala	Val
		115							120				125		
Ala	Thr	Gly	Lys	Gln	Pro	Asp	Thr	Pro	Pro	Ala	Asp	Leu	Val	Ala	Gly
		130							135				140		
Leu	Ala	Pro	Leu	Lys	Asn	His	Pro	Val	Leu	Val	Met	Gly	Val	Ala	Ser
145					150					155					160
Asp	Ile	Leu	Phe	Pro	Ala	Trp	Gln	Gln	Arg	Glu	Ile	Ala	Glu	Thr	Leu
			165						170					175	
Arg	Ala	Ala	Gly	Asn	Lys	Asn	Val	Glu	His	Ile	Glu	Leu	Gly	Glu	Asp
			180						185					190	
Ile	Ser	Leu	Phe	Gly	His	Asp	Thr	Phe	Leu	Leu	Asp	Leu	Lys	Asn	Ile
		195					200					205			
Gly	Gly	Ala	Val	Glu	Arg	Phe	Leu	Arg							
		210					215								

<210> 30666

<211> 599

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (535), (548), (568)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30666

Thr	Thr	Ala	Pro	Thr	Gly	Gly	Thr	Ala	Pro	Pro	Gly	Gly	Ala	Ala	Glu
1			5						10				15		
Ser	Pro	Ile	Thr	Thr	Val	Pro	Ser	Gly	Gly	Thr	Val	Pro	Thr	Gly	Gly
			20					25				30			
Ala	Pro	His	Ser	Pro	Ile	Thr	Thr	Ala	Pro	Thr	Gly	Gly	Thr	Ala	Pro
		35					40					45			
Pro	Gly	Gly	Ala	Ala	Glu	Ser	Pro	Ile	Thr	Thr	Met	Pro	Pro	Gly	Gly
		50				55					60				
Ala	Thr	His	Ser	Pro	Ile	Thr	Thr	Ala	Pro	Thr	Gly	Gly	Ala	Ala	Thr
65					70					75				80	
Gly	Ser	Arg	Pro	Gly	Thr	Ser	Ser	Ala	Gly	Gly	Ile	Ala	Ser	Thr	Val
			85						90				95		
Pro	Pro	Val	Ser	Ser	Pro	Thr	Gly	Gly	Gly	Val	Pro	Thr	Ser	Glu	Gly
		100						105					110		
Pro	Gly	Phe	Ser	Pro	Ala	Gly	Gly	Gly	Val	Pro	Ala	Ser	Ala	Ser	Asn
		115					120					125			
Pro	Phe	Thr	Ala	Phe	Val	Pro	Pro	Ser	Glu	Ser	Pro	Val	Ala	Ser	Lys
		130					135					140			
Val	Gly	Thr	Gln	Ala	Cys	Pro	Pro	Cys	Pro	Thr	Pro	Ala	Ala	Pro	Thr
145					150					155					160
Cys	Ala	Pro	Cys	Pro	Ala	Pro	Gly	Thr	Ser	Thr	Thr	Thr	Phe	Thr	Val
			165						170				175		
Thr	Ile	Thr	Glu	Thr	Val	Cys	Thr	Gly	Gln	Val	Thr	Gln	Gly	Gly	Gly
			180					185					190		
Gly	Pro	Thr	Ala	Ser	Pro	Gly	Val	Pro	Ala	Ile	Ser	Pro	Leu	Phe	Ser

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195          200          205
Ala Thr Gly Pro Gly Ala Leu Thr Ser Thr Ala Ala Gly Pro Gly Gly
210          215          220
Pro Gln Gly Pro Thr Ala Thr Glu Thr His Leu Ser Ile Ala Pro His
225          230          235          240
Ala Pro Gly Gly Ala Ala Gly Ala Thr Ala Gly Pro Ser Thr Gln Pro
245          250          255
Thr Thr Ser Ala Thr Gly Val Pro Ser Val Pro Gln Ile Pro Gly Gly
260          265          270
Gly Gly Gly Gly Ala Ala Ala Gly Pro Ala Thr Ser Leu Pro Val Thr
275          280          285
Ser Ala Thr Gly Val Pro Asn Ile Pro His Gly Pro Gly Gly Gly Pro
290          295          300
Ser Gly Phe Pro Asn Thr Thr Ser Ser Gln Val Val Ala Thr Thr Thr
305          310          315          320
Glu Thr Ile Gly Ser Thr Val Pro Leu Ser Thr His Gly Gly Gly Ala
325          330          335
Ala Thr Ser Gly Ala Ala Gln Thr Ser Arg Leu Ser Val Thr Thr Gly
340          345          350
Ile Ser Phe Ala Asn Val Thr Arg Thr Pro Ser Gly Gly Gln Thr Gly
355          360          365
Leu Pro Ser Val Thr Leu Ile Pro Ala Ile Pro Thr Gly Pro Gly Ile
370          375          380
Ser Asn Val Thr Gly Thr Val Gly Gly Gly Val Ser Val Ser Thr Pro
385          390          395          400
Thr Ser Ala Thr Ile Ser Ala Thr Pro Thr Arg Pro Gly Gly Thr Ala
405          410          415
Pro Pro Gly Gly Gly Val Pro Ile Ser Thr Pro Ile Ile Ala Thr Ser
420          425          430
Leu Ala Thr Pro Thr Arg Pro Gly Ala Val Ser Thr Pro Ile Ile Ala
435          440          445
Thr Ser Phe Ser Thr Pro Ser Gly Pro Glu Val Ala Pro Pro Ala Gly
450          455          460
Thr Val Val Pro Gly Thr Ala Ala Thr Pro Gly Gly Ile Val Ala Pro
465          470          475          480
Gly Gly Gly Val Ala Gly Gly Gly Thr Ala Ala Pro Arg Glu Gly Val
485          490          495
Ala Ser Arg Gly Ala Pro Ala Pro Gly Gly Gly Val Pro Thr Val Val
500          505          510
Ile Ser Gly Gly Arg Ser Thr Ala Thr Ser Thr Thr Thr Ile Gln Val
515          520          525
Gln Thr Leu Ser Val Phe Xaa Ser Gly Leu Pro Phe Pro Gln Ser Gln
530          535          540
Gly Asn Thr Xaa Thr Arg Pro Val Thr Thr Ser Thr Val Thr Gly Val
545          550          555          560
Arg Pro Pro Gln Ser Thr Pro Xaa Ile Asp Pro Lys Lys Arg Thr Val
565          570          575
Ala Glu Lys Thr Asp Ile Gly Arg Pro Asp Lys Leu Lys Ala Asn Pro
580          585          590
Ile Val Phe Arg Arg Thr
595

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<210> 30667

<211> 70

<212> PRT

<213> A.fumigatus

<400> 30667

```

Ile Trp Ala Gly Glu Val Pro Met Leu Arg Thr Thr Gly Phe Asp Leu
1           5           10           15
Ile Cys Val Ser Val Phe Phe Phe Pro Ile Pro Leu Leu Arg Glu Leu
           20           25           30
Phe Trp His Val Arg Tyr Val Asp Ser Asn Thr Val Val Thr Glu Glu
           35           40           45
Glu Met Gln Lys Tyr His Ile Ala Arg Thr Ala Pro Phe Phe Leu Tyr
           50           55           60
Pro Thr Ala Arg Ala Leu
65           70

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<210> 30668

<211> 261

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (37), (57), (70)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30668

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Asp Gly His Phe Gln Val Arg Arg Arg Asn Thr Ile Gly Phe Ala Leu
1           5           10           15
Ser Leu Ser Gly Arg Pro Met Ser Val Phe Ser Ala Thr Val Arg Phe
           20           25           30
Phe Gly Ser Ile Xaa Gly Val Asp Cys Gly Gly Leu Thr Pro Val Thr
           35           40           45
Val Leu Val Val Thr Gly Arg Val Xaa Val Phe Pro Trp Asp Cys Gly
           50           55           60
Lys Gly Arg Pro Leu Xaa Lys Thr Asp Asn Val Trp Thr Trp Met Val
65           70           75           80
Val Val Glu Val Ala Val Asp Leu Pro Pro Asp Ile Thr Thr Val Gly
           85           90           95
Thr Pro Pro Pro Gly Ala Gly Ala Pro Arg Asp Ala Thr Pro Ser Arg
           100          105          110
Gly Ala Ala Val Pro Pro Pro Ala Thr Pro Pro Pro Gly Ala Thr Ile
           115          120          125
Pro Pro Gly Val Ala Ala Val Pro Gly Thr Thr Val Pro Ala Gly Gly
           130          135          140
Ala Thr Ser Gly Pro Leu Gly Val Glu Lys Leu Val Ala Ile Ile Gly
145           150          155          160
Val Glu Thr Ala Pro Gly Leu Val Gly Val Ala Arg Leu Val Ala Ile
           165          170          175
Ile Gly Val Glu Met Gly Thr Pro Pro Pro Gly Gly Ala Val Pro Pro
           180          185          190
Gly Leu Val Gly Val Ala Glu Ile Val Ala Leu Val Gly Val Glu Thr
           195          200          205
Asp Thr Pro Pro Pro Thr Val Pro Val Thr Leu Glu Ile Pro Gly Pro
210           215          220
Val Gly Met Ala Gly Ile Lys Val Thr Leu Gly Asn Pro Val Cys Pro
225           230          235          240
Pro Leu Gly Val Arg Val Thr Phe Ala Lys Leu Ile Pro Val Val Thr
           245          250          255

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Glu Ser Leu Glu Val
260

<210> 30669

<211> 531

<212> PRT

<213> A.fumigatus

<400> 30669

Leu	Arg	Gly	Gly	Arg	Glu	Asp	His	Ile	Gln	Ser	Ser	Pro	Asp	Ser	Ala	
1				5					10					15		
Ser	Lys	Gly	Arg	Arg	Arg	His	Ile	Thr	Gln	Glu	Gly	Ala	Ile	Gly	Ser	
		20						25					30			
Ala	Ile	Cys	Gln	Leu	Pro	Gln	His	Gly	Gly	Asp	Ala	Leu	Pro	Gly	Ser	
		35					40					45				
Ala	Val	Val	Arg	Ser	Ser	Ser	Arg	Trp	Tyr	Asn	Tyr	Ala	Gly	Gln	Gly	
	50					55				60						
Thr	Met	Arg	Pro	Ser	Leu	Asp	Val	Leu	Arg	Gly	Leu	Leu	Val	Gln	Leu	
65					70					75				80		
Val	Phe	Asp	Asn	Asn	Met	Leu	Arg	Ala	Ala	Ala	Met	Lys	Ala	Thr	Ala	
				85					90					95		
Asp	Thr	Val	Phe	Arg	Leu	Ser	Gly	Leu	Gly	Ala	Gly	Gly	Thr	Ser	Pro	
		100						105					110			
Ile	Leu	Val	Gly	Pro	Ser	Ile	Pro	Val	Gln	Pro	Asp	Ala	Gly	Ala	His	
	115						120					125				
Asp	Gln	Gly	Thr	Pro	Arg	Glu	Ala	Trp	Gly	Leu	Lys	Ser	Gly	Leu	Tyr	
	130					135					140					
Thr	Pro	Arg	Gln	Leu	Val	Glu	Gly	Phe	Ala	Pro	Leu	Leu	Asp	Thr	Val	
145				150						155					160	
Val	Phe	Arg	Leu	Gly	Pro	Asp	Pro	Pro	Asn	Ala	Arg	Pro	Ala	Arg	Ala	
			165						170					175		
Gln	Leu	Leu	Asp	Asn	Leu	Ala	Ala	Asn	Leu	Asp	Ile	Asn	Thr	Arg	Glu	
		180						185					190			
Ala	Thr	Leu	Arg	Phe	Pro	Asp	Thr	Asp	Leu	Asp	Ala	Ser	Arg	Gln	Glu	
	195						200					205				
Ile	Ala	Glu	Gln	Ala	Arg	Arg	Ile	Gly	Gln	Thr	Leu	Val	Gln	Tyr	Ala	
	210					215					220					
Arg	Asn	His	Thr	Gly	Gly	Pro	Phe	Asn	Pro	Asp	Leu	Ser	Leu	Arg	Ser	
225					230					235				240		
Pro	Cys	Glu	Gly	His	Leu	Leu	Ile	Pro	Pro	Asn	Val	Asp	Leu	Met	Phe	
			245						250				255			
Gly	Arg	Arg	Ser	Gln	Ser	His	Leu	Met	Gln	Leu	Phe	Asn	Glu	Tyr	Met	
		260						265					270			
His	Gln	Met	Val	Leu	Leu	Arg	Asp	Ala	Leu	Leu	Pro	Phe	Gln	Asn	Tyr	
	275						280					285				
Glu	Asp	Val	Ile	Ile	Pro	Val	Asp	Gly	Arg	Ala	Ala	Arg	Gly	Ile	Arg	
	290					295					300					
His	Leu	Glu	Pro	Ser	Arg	Ser	Glu	Phe	Leu	Thr	His	Leu	Leu	Thr	Lys	
305					310					315				320		
Glu	Val	Thr	Gln	Ser	Ala	Ile	Ile	Lys	His	Ala	Gln	Ala	Leu	Leu	Ala	
			325						330				335			
Pro	Gly	Leu	Leu	Ser	His	Ser	Ser	Leu	Thr	Pro	Ser	Pro	Arg	Ala	Gly	
		340						345					350			
Pro	Gly	Tyr	Gly	Phe	Gln	Tyr	Ala	His	Gly	Leu	Val	Leu	Pro	Ala	Phe	
	355						360					365				
Leu	Ala	Gly	Gly	Pro	Thr	Pro	Phe	His	Leu	Leu	Gln	Tyr	Ile	Pro	Ala	

370 375 380
 Lys Leu Val Asp Asp Ala Pro Lys Gly Val Ile Phe Asp Tyr Arg Ile
 385 390 395 400
 Gln Asp Tyr Tyr Leu Ala Pro Arg Val Asp Ile Pro Ala Gly Thr Glu
 405 410 415
 Lys Thr Phe Pro Gly Leu Leu Ser Glu Arg Tyr Pro Trp Pro Met Ala
 420 425 430
 Gly Ala Pro Gln His Ser Ala Tyr Lys Ala Pro Thr Leu Glu Ser Phe
 435 440 445
 His Arg His Pro Thr Arg Thr Arg His Pro Met Arg Ser Gly Ser Leu
 450 455 460
 Ser Cys Asn Ser Ser Ser Thr Thr Ala Ser Ala Ser Arg Leu Thr Trp
 465 470 475 480
 Asp Arg Leu Arg Val Ala Thr Asp Thr Pro Thr Trp Arg Pro Val Pro
 485 490 495
 Ala Pro Pro Arg Arg His Pro Thr Val Cys Thr Ala Arg Arg Pro Pro
 500 505 510
 Trp Ser Thr Thr Pro His Pro Phe Ser Trp Arg Arg Ser Thr Lys Lys
 515 520 525
 Thr Ala Ser
 530

<210> 30670

<211> 235

<212> PRT

<213> A.fumigatus

<400> 30670

Asp Phe Gln Arg Ser Arg Ser Thr Ser Ala Asn Gln Glu Ser His Ile
 1 5 10 15
 Val Ala Ala Lys Cys Leu Gln Asp Thr Ala Val Met Arg Asn Phe Trp
 20 25 30
 His Phe Ser Gln Gln Leu Tyr Ala Asp Leu Pro Pro Ile Asp Ala Tyr
 35 40 45
 Leu Ala Leu His Arg Asp Tyr Val Ala Pro Ile Val Gly Pro Val Leu
 50 55 60
 His Gly Thr Leu Thr Thr Thr Glu Ala Leu Ala Leu Trp Thr Gly Ser
 65 70 75 80
 Thr Pro Trp Val Ala Lys Ile Gln Ala Leu Arg Gln Gly Lys Glu Val
 85 90 95
 Ala Glu Arg Leu Phe Ser Tyr Thr Lys Ser Leu Cys Ala Thr Gln Gln
 100 105 110
 Ser Thr Leu Ser Ser Leu Thr Ala Asp Glu Lys Gln Ile Ser Ala His
 115 120 125
 Leu Thr Thr Glu Ile Leu Arg Arg Tyr Thr Ala Asp Thr Leu Gly Gln
 130 135 140
 Pro Thr Pro Phe Thr Asp Gly Val Asp Thr Ala Ala Gly Gly Ala Ser
 145 150 155 160
 Leu Ala Gly Gly Ser Ala Lys Asn Ile Pro Gln Gly Ile Thr Asn Asn
 165 170 175
 Leu Ser Leu Ala Ala Ser Ala Ser Phe Gly Pro Ala Glu Ser Leu Phe
 180 185 190
 Asp Arg Ile Asn Tyr Phe Glu Cys Phe Asn Thr Ala Leu Arg Met Ile
 195 200 205
 Gln Thr Ala Gln Ala Gln Arg Met Ile Lys Ala Leu Asp Val Ile Ala
 210 215 220

11684

Gln Lys Leu Arg Asp Trp Glu Leu Leu Tyr Arg
225 230 235

<210> 30671
<211> 77
<212> PRT
<213> A.fumigatus

<400> 30671
Ser Ser Ile Pro Leu Gly Ser Ile Ala Pro Gln His Trp Glu His Ser
1 5 10 15
Ser Asp Asp Asn Asp Ile Ser Thr Cys Thr Phe Cys Val Leu Leu Pro
20 25 30
Trp Asn Lys Trp Gln His Trp Gln Cys Ser Met Met Gly Tyr Ser Leu
35 40 45
Leu Leu Thr Asn Leu Leu Asp Pro Tyr Thr Leu Phe Val Pro Leu Gln
50 55 60
Arg Leu Lys Ala Val Leu Gly Lys Gly Lys His Thr Pro
65 70 75

<210> 30672
<211> 346
<212> PRT
<213> A.fumigatus

<400> 30672
Gln Leu Asp Gln Met Leu Arg Asn Asp Glu Val Gln Arg His Thr Leu
1 5 10 15
Leu Ser Glu Met Ile Thr Arg Val Ser Gly Phe Ser Ala Trp Leu Leu
20 25 30
Pro Ser Phe Ala Trp Ser Gly Gly Gln Ser Pro Pro Arg Leu Ala Pro
35 40 45
Val Trp Pro Ser Thr Ala Arg Arg Val Ile Lys Met Thr Val Leu
50 55 60
Val Ala Leu Phe Cys Leu Val Thr Trp Thr Leu Cys Thr Arg Ile Pro
65 70 75 80
Gln Tyr Ser Thr Gln Gly Thr Gln Gln Pro Gln Gln Pro Glu Lys Thr
85 90 95
Pro His Pro His Pro Gln Pro Glu Asp Ala Phe Pro Pro Thr His Ala
100 105 110
Thr Asp Leu Lys Ile His Asp Pro Ser Ile Ile His Val Asp Gly Thr
115 120 125
Tyr Tyr Ser Tyr Ser Val Gly Arg His Ile Arg Ile His Gln Ala Pro
130 135 140
Ser Leu Asp Gly Pro Trp Glu Arg Thr Gly Ala Val Leu Asn Ala Asp
145 150 155 160
Ser Val Ile Pro Lys Gly Asp Arg Lys Ala Pro Trp Ala Pro Gln Thr
165 170 175
Val His His Asn Asp Thr Tyr Tyr Cys Phe Tyr Ala Val Ser Asn Ser
180 185 190
Gly Cys Arg Asp Ser Ala Ile Gly Val Ala Thr Ser Lys Ser Pro Gly
195 200 205
Pro Gly Gly Trp Thr Asp His Gly Leu Leu Val Gln Ser Gly Thr Gly
210 215 220
Lys Gly Ser Asp Glu His Pro Phe Thr Ser Ser Asn Thr Ile Asp Pro
225 230 235 240

Ser Val Phe Val Gly Glu Asp Gly His Gly Tyr Leu Met Phe Gly Ser
 245 250 255
 Phe Trp Ser Gly Ile Trp Gln Val Pro Leu Asp Glu Ser Leu Leu Ser
 260 265 270
 Val Ala Gly Asp Thr Ser Ser Glu Ala Arg Gln Leu Val Tyr Met Glu
 275 280 285
 Lys Ala Pro Leu Pro Ala Ser Lys His Pro Asn Pro Leu Cys Arg Glu
 290 295 300
 Pro Ser Gly Ala Arg Pro Ile Glu Gly Ser Phe Leu Ser Tyr His Glu
 305 310 315 320
 Pro Trp Tyr Tyr Leu Trp Phe Ser Tyr Gly Lys Cys Cys Lys Phe Asp
 325 330 335
 Thr Lys Asn Leu Pro Pro Pro Gly Arg Glu
 340 345

<210> 30673

<211> 216

<212> PRT

<213> A.fumigatus

<400> 30673

His Asp Ile Trp Gly Leu Trp Pro His Phe Arg Ser Ser Trp Gln Asp
 1 5 10 15
 Ile Gly Ile Ala Ser Cys Cys Arg Ser Lys Asn Ser Gly Ile Met Arg
 20 25 30
 Arg Ala Pro Arg Gly His Ser Ala Arg Gly Arg Val Ser Gly Gly Gln
 35 40 45
 Pro Lys Ala Arg Glu Glu Gly Asp Glu Ile Pro Glu Val Tyr Gln Glu
 50 55 60
 Met Leu Ala Glu Ala Glu Leu Arg Asn Pro Asn Val Ser Glu Ala Asp
 65 70 75 80
 Arg Pro Ile Lys Arg Arg Lys Val Gly Ala Gln Gly Ala Thr Thr Leu
 85 90 95
 Asn Glu Val Ser Ile Pro Gln Val Pro Leu Ser Met Glu Asp Ser Arg
 100 105 110
 Gln Val Gln Thr Asp Tyr Asp Glu Pro Thr Ser Glu Glu Ser Asp Met
 115 120 125
 Glu Trp Glu Glu Val Asp Leu Gln Gln Val Pro Ala Gln Ser Thr Gln
 130 135 140
 Ile Gly Pro Val Thr Glu Val Asp Asn Glu Pro Leu Gln Ile Thr Leu
 145 150 155 160
 Glu Gly His Glu Gly Lys Arg Arg Lys Val Ile Ser Arg Gln Lys Ser
 165 170 175
 Leu Thr Ala Ala Glu Lys Lys Leu Arg Leu Asp Ile His Lys Val His
 180 185 190
 Val Leu Cys Leu Leu Arg His Val Gln Ile Arg Asn Leu Trp Cys Asn
 195 200 205
 Asp Asp Glu Leu Gln Val Arg Asn
 210 215

<210> 30674

<211> 115

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (61)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30674

```

His Leu Lys Gly Pro Gly Phe Thr Ala Arg Ala Ser Pro Tyr Pro Val
1          5          10          15
Phe Trp Val Glu Ala Phe Asn Glu Ala Val Gln Lys Trp Val Pro Val
          20          25          30
Asp Pro Leu Val Thr Lys Ser Ile Ala Lys Pro Ser Lys Phe Glu Pro
          35          40          45
Pro Phe Ser Asp Pro Ser Asn Ser Met Val Tyr Val Xaa Gly Phe Glu
          50          55          60
Glu Asp Ala Ser Ala Arg Asp Val Thr Arg Arg Tyr Ala Lys Ala Phe
65          70          75          80
Asn Ala Lys Thr Arg Lys Ile Arg Val Glu Ser Thr Lys Asp Gly Glu
          85          90          95
Arg Trp Trp Ala Arg Lys Lys Leu Phe Tyr Glu Lys Thr Ile Leu Gly
          100          105          110
Arg Pro Arg
          115

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<210> 30675

<211> 151

<212> PRT

<213> A.fumigatus

<400> 30675

```

Glu Thr Ile Met Phe Asp Ala Glu Val Phe Leu Ser Lys Glu Asp Phe
1          5          10          15
Cys Lys Gln Ala Arg Thr Met Gln Gly Ser Arg Asp Phe Gly Ala Gln
          20          25          30
Leu Phe Cys Ala Leu Leu Arg Ser Ala Ala Val Glu Ala Arg Leu Val
          35          40          45
Cys Ser Leu Gln Pro Leu Pro Phe Ser Gly Thr Thr Lys Ser Met Thr
          50          55          60
Pro Asn Lys Arg Asp Ser Gln Tyr Ile Val Ile Ser Ser Asp Asp His
65          70          75          80
Glu Thr Ser Ala Asp Asp Arg Gln Met Pro Gly Leu Ser Pro Thr Pro
          85          90          95
Ala Ser Arg Ser Arg Arg Leu Gly Arg Pro Gln Phe Thr Pro Ala Arg
          100          105          110
Ser Gln Lys Thr Ser Ile Pro Gly Asn Met Ser Thr Ser Ile Pro Leu
          115          120          125
Ala Tyr Ser Leu Thr Ser Gln Arg Pro Trp Ile His Arg Ser Ser Leu
          130          135          140
Ala Leu Pro Gly Val Leu Gly
          145          150

```

<210> 30676

<211> 60

<212> PRT

<213> A.fumigatus

<400> 30676

```

Gln Lys Asp Phe Arg Val Glu His Asn Ser Phe Leu Gln Gly Cys Glu

```

1 5 10 15
 Lys Gly Asp Tyr Cys Val Glu Leu Cys Thr His Thr Ala Phe Cys Phe
 20 25 30
 Asn Phe Ser Gly Ser Ser Thr Gln Cys Ala Arg Phe Lys Pro Gly Leu
 35 40 45
 Val Thr Leu Asn Leu Leu Leu Lys Ala Ser Leu Ala
 50 55 60

<210> 30677

<211> 694

<212> PRT

<213> A.fumigatus

<400> 30677

Trp Leu Leu Tyr Leu Ile Cys Glu Asp Asp Pro Glu Ile Val Ala Leu
 1 5 10 15
 Ala Thr Lys Ile Leu Ala Arg Leu Ile Val Ile His Gly Asp Val Tyr
 20 25 30
 Ser Lys Lys Phe Ser Glu Lys Thr Gly Gly Tyr Ile Ile Met Arg His
 35 40 45
 Arg Leu Arg Ser Trp Trp Lys Val Pro Ala Ile Trp Cys Ile Cys Leu
 50 55 60
 Ser Ile Leu Leu Gly Leu Asp Val Gly Gly Met Lys Leu Asp Gln Pro
 65 70 75 80
 Phe Ser Arg Thr Gly Leu Ile Glu Ile Leu Ser Ser Asn Ser Gln Pro
 85 90 95
 Arg Val Ala Phe Pro Glu Ile Leu Pro Val Leu Met Glu Met Met Gln
 100 105 110
 Leu Gly Leu Gln Ser Val Ile Ser Gly Asp Glu Leu Ser Ser Gly Val
 115 120 125
 His Gly Lys Ser Leu Gln Lys Ser Glu Val Arg Leu Glu Ser Pro Pro
 130 135 140
 Ala Ser Leu Thr Ile Arg Val Thr Glu Leu Thr Lys Gln Ile Ser Leu
 145 150 155 160
 Leu Asp Ala Val Val Gly Leu Phe Ala Asp Leu His Gln Asn Ser Thr
 165 170 175
 Asp Phe Arg Asp Phe Ala Ala Gln Ser Asp Tyr Val Gln Trp Leu Leu
 180 185 190
 Tyr Val Thr Phe Pro Val Val Val Gly Ser Asp Ile Pro Ser Thr Asp
 195 200 205
 Phe Glu Leu Lys Ser Arg Ala Ala Lys Thr Asn Ser His Asp His Thr
 210 215 220
 Leu Pro Val Arg Pro Arg Ser Ser Gly Thr Ala Gly Leu Arg Thr Thr
 225 230 235 240
 Thr Val Glu Gly Ser Ser Ser Arg Glu Arg Gln Ala Gly Pro Leu Arg
 245 250 255
 Arg Gly Ser Ser Phe Ile Leu Val Ser Ser Asp Arg Thr Lys Phe Ser
 260 265 270
 Pro Ser Phe Ala Arg Ile His Lys Ala Phe Ile Pro Phe Gly Ser Pro
 275 280 285
 Pro Asp Met Thr Ala Thr Asp His Pro Leu Val Gln Ala Ile Leu Ser
 290 295 300
 Leu Val Leu Ser Val Phe Cys Asp Gln Leu Leu Glu Arg Lys Asp Phe
 305 310 315 320
 Ala Gly Leu Gly Leu Tyr Leu Lys Thr Pro Thr Ser Thr Leu Glu Gln
 325 330 335

Gln Ser Tyr Phe Asn Ser Trp Ile Leu Arg Ser Leu Leu Thr Arg Leu
 340 345 350
 Arg Asp Val Thr Ile Ser Lys Pro Gln Val Leu Leu Glu Pro Arg Ala
 355 360 365
 Leu Ser Asn Met Gly Arg Phe Ala Thr His Ile Gly Glu Ala Val Tyr
 370 375 380
 Glu Gly Trp Phe Ile Asp Gly Ala Thr His Ala Leu Glu Phe Ala Gly
 385 390 395 400
 Ala Ile Leu Glu Tyr Leu Gln Gln Ser Asn Val Ser Ser Leu Lys Ser
 405 410 415
 Val Arg Leu Cys Ser Gln Ala Val Thr Thr Ile Arg Ser Thr Leu Phe
 420 425 430
 Arg Val Val Leu Leu Lys Leu Ser Glu Val Asp Asp Arg Glu Ala Cys
 435 440 445
 Glu Phe Leu Ser Arg Leu Ser Tyr Trp Gln Val Val Leu Leu Ser Glu
 450 455 460
 Gly Glu Val Gln Ser Asp Tyr Leu Arg Leu Leu Cys Tyr Leu Leu Tyr
 465 470 475 480
 Thr Lys Leu Ile Ser Gln Asp Trp Asn Val Arg Leu Ala Ala Ala Gly
 485 490 495
 Leu Trp Arg Val Ile Leu Val Gln Lys Pro Ala Glu Met Ser Gly Ile
 500 505 510
 Leu Ser Gln Ala Ala Ile Pro Leu Gln Lys Arg Leu Ser Asp Gly Phe
 515 520 525
 Glu Ala Leu Val Gly Met Glu Asp Lys Ala Phe Leu Gln Trp Val Asp
 530 535 540
 Gly His Gln Asp Asp Leu Asn Ala Met Phe Leu Gly Leu Leu Ser Arg
 545 550 555 560
 Ser Trp Glu Thr Phe Val Gln Glu Glu Ser Ser Asn Ile Asp Ser Thr
 565 570 575
 Thr Arg Ala Arg Ala Ser Lys Arg Gln Glu Lys Leu Arg His Trp Asn
 580 585 590
 Gln Leu Glu Arg Leu Ser Glu Glu Val Thr Arg Lys His Glu Thr Thr
 595 600 605
 Phe Pro His Trp Val Ser Asn Ile Ser Ala Ser Glu Phe Leu Lys His
 610 615 620
 Gln Arg Ala Leu Gln Asp Gln Gln Asp Asn Ser Val Phe Met Trp Thr
 625 630 635 640
 Ala Phe Ser His Met Thr Met Asp Leu Lys Arg Phe Gly Gly Val Leu
 645 650 655
 Ala Glu Asp Lys Asp Arg Lys Trp Arg Leu Asp Gln Thr Glu Gly Arg
 660 665 670
 Ser Arg Met Arg Leu Arg Met Val Pro Asp Glu Val Pro Pro Thr Gly
 675 680 685
 Gly Arg Lys Ser Ala Ile
 690

<210> 30678

<211> 217

<212> PRT

<213> A.fumigatus

<400> 30678

Ser Arg Ile Ala Asn Asn Pro Met Pro Asp Leu Arg Pro Leu Pro Thr
 1 5 10 15
 Val Gln Gly Arg Ala Pro Gly Val Ser Lys Arg Cys Pro Ala Asn Asp

20 25 30
 Ala Gly Lys Gln Gly Asn Leu Thr Phe Phe Leu Thr Arg Gly Ala Met
 35 40 45
 Gly Met Thr Ala Ile Gly Ile Ala Leu Trp Lys Tyr Cys Met Arg Tyr
 50 55 60
 Val Pro Thr Asn Pro Asn Phe Phe Asn Arg Asp Arg Phe Val Leu Ser
 65 70 75 80
 Asn Gly His Thr Cys Leu Phe Gln Tyr Thr Phe Leu His Leu Thr Gly
 85 90 95
 Tyr Lys Ala Met Thr Met Asp Gln Leu Lys Ser Tyr His Ser Glu Arg
 100 105 110
 Glu Asp Ser Leu Cys Pro Gly His Pro Glu Ile Glu Ile Asp Gly Val
 115 120 125
 Glu Val Thr Thr Gly Pro Leu Gly Gln Gly Val Ala Asn Ala Val Gly
 130 135 140
 Leu Ala Met Ala Thr Lys His Leu Gly Ala Val Tyr Asn Arg Pro Gly
 145 150 155 160
 Phe Ser Leu Val Asp Asn Thr Thr Trp Cys Met Val Gly Asp Ala Cys
 165 170 175
 Leu Gln Glu Gly Val Ala Leu Glu Ser Ile Gln Leu Ala Gly His Trp
 180 185 190
 Arg Leu Asn Asn Leu Val Ile Ile Tyr Asp Asn Asn Gln Val Ala Leu
 195 200 205
 Ala Pro Tyr Phe Pro Ile Trp Pro Tyr
 210 215

<210> 30679

<211> 233

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (228), (229)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30679

Arg Ile Thr Ala Ala Leu Met Arg Ala Arg Ser Ser Lys Glu Lys Pro
 1 5 10 15
 Thr Phe Ile Asn Val Arg Thr Val Ile Gly Val Glu Ser Lys Phe Ala
 20 25 30
 Gly Asp Ala Lys Ala His Gly Ala Ala Phe Gly Glu Asp Glu Val Ala
 35 40 45
 Asn Ile Lys Arg Lys Leu Gly Leu Asn Pro Asp Glu His Phe Ala Val
 50 55 60
 Pro Asp Glu Val Tyr Gln Phe Phe Ser Asp Ala Gly Gly Arg Gly Arg
 65 70 75 80
 Ala Leu Glu Glu Gly Trp Asn Gln Leu Leu Asn Tyr Ser Thr Glu
 85 90 95
 His Pro Glu Met Tyr Glu Glu Phe Arg Leu Arg Met Leu Gly Arg Met
 100 105 110
 Thr Gln Asp Trp Thr Lys Leu Ile Pro Ser Lys Glu Glu Phe Pro Ala
 115 120 125
 Ser Pro Thr Ala Ser Arg Lys Ser Ala Gly Leu Cys Cys Asn Pro Leu
 130 135 140
 Ala Ala Lys Leu Glu Asn Ile Met Val Gly Thr Ala Asp Leu Thr Pro

11690

145 150 155 160
 Ser Val Asn Met Ala Trp Lys Gly Lys Val Asp Phe Gln His Val Ser
 165 170 175
 His Ser Pro Val Pro Arg Asn Ile His Pro Phe Thr Asn Gln Asn Cys
 180 185 190
 Phe Val Gln Pro Glu Leu Lys Thr Thr Cys Gly Leu Asn Gly Asn Tyr
 195 200 205
 Thr Gly Arg Tyr Ile Val Phe Thr Thr Gly Leu Glu Gly Ser Asp Gly
 210 215 220
 Gly Val Tyr Xaa Xaa Arg Gly Phe His
 225 230

<210> 30680

<211> 240

<212> PRT

<213> A.fumigatus

<400> 30680

Asn His Gly Gly Phe Arg Ser Cys Gly Asp Glu His Tyr Gly Thr His
 1 5 10 15
 Tyr Ser Ser Ala Met Ile Val Cys Ser Tyr Leu Ile Arg Leu Gln Pro
 20 25 30
 Phe Val Lys Ser Tyr Leu Leu Leu Gln Gly Gly Thr Phe Asp His Ala
 35 40 45
 Asp Arg Leu Phe Tyr Ser Ile Gly Lys Ala Trp Glu Ser Ala Ser Arg
 50 55 60
 Gly Asn Met Ser Asp Val Arg Glu Leu Thr Pro Glu Phe Phe Tyr Leu
 65 70 75 80
 Pro Glu Phe Leu Val Asn Ser Asn Lys Tyr Asp Phe Gly Leu Leu Gln
 85 90 95
 Asn Met Thr Thr Ala Ile Asp Ser Val Glu Leu Pro Pro Trp Ala Lys
 100 105 110
 Gly Asp Pro Lys Ile Phe Ile Ala Lys His Arg Glu Ala Leu Glu Ser
 115 120 125
 Ser Tyr Val Thr Glu Asn Leu His His Trp Ile Asp Leu Val Phe Gly
 130 135 140
 Cys Lys Gln Lys Gly Glu Ala Ala Ile Glu Ala Val Asn Val Phe His
 145 150 155 160
 His Leu Ser Tyr Gln Gly Ala Lys Asp Ile Asp Asn Ile Asp Asp Pro
 165 170 175
 Val Glu Arg Leu Ala Thr Ile Gly Ile Ile His Asn Phe Gly Gln Thr
 180 185 190
 Pro His Gln Ile Phe Thr Arg Pro His Pro Pro Arg Glu Asp Thr Arg
 195 200 205
 His Lys Val Pro Arg Leu Asp Arg Leu Ala Glu Ser Leu Thr Gln Leu
 210 215 220
 Pro Leu Ser Leu Leu Gly Lys Ser Ser Gly Leu Leu Arg Leu Trp Pro
 225 230 235 240

<210> 30681

<211> 215

<212> PRT

<213> A.fumigatus

<400> 30681

Gln Ala Gln Ile Leu Gly His Phe Glu His Leu His Ile Gly Gln Leu

11691

```

1           5           10           15
Ser Cys Thr Ile Phe Ala Asp Ser Arg Thr Leu Val Thr Ser Gly Thr
20           25           30
Asp Cys Val Val Ser Ile Trp Thr Tyr Asn Ser Thr Ala Lys Ser Val
35           40           45
Asp Leu Gln Pro Ala Gly Ser Leu Phe Gly His Arg Asn Pro Val Asn
50           55           60
Val Leu Ala Val Ser Arg Ser Phe Ser Ala Leu Leu Ser Ala Ser Thr
65           70           75           80
Asp Gly Gln Ile Met Leu Trp Asp Leu Asn Gln His Thr Phe Val Arg
85           90           95
Glu Leu Pro Ala Ser Gly Pro Val Asp Val Ser Asp Ala Arg Lys Leu
100          105          110
Thr Lys Arg Pro Cys Ser Phe Arg Gln Arg Leu Thr Ser Ala Gln Cys
115          120          125
Ala Arg Ile Asn Asp Val Thr Gly Glu Ile Met Val Cys Arg Gly Asn
130          135          140
Arg Ile Ser Ile Tyr Thr Leu Asn Gly Ala Leu Leu Leu Glu Gln Asp
145          150          155          160
Val Cys Glu Ser Ile Asp Asp Arg Val Met Ser Cys Val Phe Tyr Glu
165          170          175
Gly Val Asp Asn Glu Trp Gln Glu Arg Glu Leu Ile Phe Thr Gly His
180          185          190
Arg Lys Gly Val Val Asn Val Arg Cys Pro Asp Phe Phe Leu Lys Thr
195          200          205
Val Leu Ser Leu Pro Ser Gly
210          215

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<210> 30682
 <211> 107
 <212> PRT
 <213> A.fumigatus

```

<400> 30682
Leu Gln Leu Arg Thr Ile Thr Ala Pro Ser Arg Leu Thr Arg Val His
1           5           10           15
Pro Ser Pro Thr Ala Val Ile Lys Thr Asn Gln Ser Arg Cys Ser Ser
20           25           30
Gln Ile Leu Ile Leu Asp Ile His Pro Thr Asn Ile Pro Phe His Gly
35           40           45
Phe Lys Leu Ala Cys Gln Leu Thr Pro Glu Val Gly Thr Ala Met Gly
50           55           60
Gly Arg Asp Ser Asp Arg Glu Ala Arg Tyr Asp Tyr Asp Tyr Ala Arg
65           70           75           80
Arg Arg Tyr Ala Thr Asp Asp Asp Asp Asp Tyr Asp Asp Asp Glu Leu
85           90           95
Glu His Asp Leu Thr Glu Arg Arg Tyr Arg Arg
100          105

```

<210> 30683
 <211> 197
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE

<222> (97)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30683

```

Gln Leu Gln Ser Met Cys His Pro Ile Asp Phe Ser His Pro His Leu
1           5           10           15
Ile Leu Thr Ser Thr Gly Arg Asn Pro Glu Asp Cys Leu Pro Pro Thr
          20           25           30
Thr Ser Ser Ala His Ala Arg His Tyr Ser Gln Pro Asp Thr Ser Arg
          35           40           45
Asn Ser Pro Thr Ser Arg Thr Glu Gly Cys Ala Gly His Leu Thr Gln
          50           55           60
Pro Asp Asn Thr Ser His Gly Glu Ala His Asp Ser Pro Asp Asn Thr
65          70           75           80
Ala Asn Ala Gln His Pro Ser Ala Leu Pro Pro His Pro Pro Pro Ala
          85           90           95
Xaa Ser Pro Ser Phe Ser Arg Pro Leu Pro Pro Pro Gly Pro Asn Arg
          100          105          110
Pro Arg Gly Ala Thr Arg Lys Thr Ser Lys Gly Gly Gly Val Gln Met
          115          120          125
Val Leu Glu Glu Gly Gly Ser Trp Ser Glu Leu Ala Asp His Ser Ser
          130          135          140
Thr Leu Pro Ala Glu Gly Tyr Asp Asn Ala Ser Val Lys Gly Lys Ser
145          150          155          160
Ser Asn Ser Gly Met Leu Ala Phe Leu Ser Arg Lys Lys Gly Arg Asp
          165          170          175
Arg Ser Pro Lys Pro Gln Glu Pro Gly Val Leu Gly Lys Glu Gly Ala
          180          185          190
Arg Gln Ile Ile Ser
          195

```

<210> 30684

<211> 69

<212> PRT

<213> A.fumigatus

<400> 30684

```

Ile Leu Ile Pro Leu His Leu Leu Phe Ser Ile Val Cys Leu Tyr His
1           5           10           15
Cys Leu Ser Met Asp Phe Arg Pro Asp Phe Pro Gln Thr Ile Arg Ile
          20           25           30
Thr Gln Ser Ile Ser Glu Asn His Val Trp Arg Val Met Leu Thr Ile
          35           40           45
Tyr Phe Glu Pro Lys Thr Thr Asn Val Ala Leu Tyr His Gln Ala Thr
          50           55           60
Phe Ala Leu Pro Asn
65

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<210> 30685

<211> 60

<212> PRT

<213> A.fumigatus

<400> 30685

```

His Leu Val Gly Pro Ile Trp Arg Pro Lys Gln Phe Trp Thr Ser Leu
1           5           10           15

```

11693

Lys Thr Val Gln His Leu Ser Glu Pro Lys Arg Ser Ala Tyr Leu Leu
 20 25 30
 Pro Cys Ile Thr Trp Ala Met Ser Pro Arg Glu Leu Ile Thr Leu Gly
 35 40 45
 Leu Gln Arg Thr Leu Asn Gln Pro Leu Val Gly His
 50 55 60

<210> 30686
 <211> 120
 <212> PRT
 <213> A.fumigatus

<400> 30686
 Val Asn Pro Ser Gln Val Thr Asn Ser Leu Leu Gln Leu Lys Glu Ile
 1 5 10 15
 Phe Ala Asp Tyr Gln Pro Val Ser Ala Lys Ile Ala Leu Arg Pro Ile
 20 25 30
 Pro Arg Phe Met Ile Lys Lys Leu Gln Ala Arg Asn Glu Arg Arg Lys
 35 40 45
 Gly Arg Gly Phe Gly Phe Val Thr Leu Gly Ser Glu Glu Leu Gln Glu
 50 55 60
 Lys Ala Val Lys Glu Met Asn Gly Lys Glu Ile Glu Gly Arg Glu Ile
 65 70 75 80
 Ala Val Lys Val Ala Ile Asp Ser Pro Gly Lys Glu Asp Asp Ala Val
 85 90 95
 Pro Thr Gly Glu Gln Thr Glu Ala Ala Pro Ala Ala Lys Glu Gln
 100 105 110
 Glu Asn Thr Pro Pro Ala Ala Ala
 115 120

<210> 30687
 <211> 247
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (80)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30687
 Phe Leu Tyr Ser Glu Ser Thr Ser Ile Pro Val Asn Pro Arg Thr Asn
 1 5 10 15
 Arg Pro Val Gly Tyr Ala Phe Val Asp Leu Ala Thr Ala His Glu Ala
 20 25 30
 Thr Ala Ala Ile Glu Glu Leu Ser Gly Lys Glu Ile Leu Gln Arg Lys
 35 40 45
 Val Ser Val Gln Leu Ala Arg Lys Pro Glu Pro Ala Glu Ala Lys Ala
 50 55 60
 Glu Gly Ala Ala Ser Gly Gly Glu Gly Ala Ser Gly Thr Glu Gly Xaa
 65 70 75 80
 Lys Arg Thr Gly Gly Arg Ala Arg Gly Arg Gly Arg Gly Arg Gly Arg
 85 90 95
 Gly Gly Arg Phe Gly Arg Gly Gly Arg Val Ser Phe Pro Cys Thr Phe
 100 105 110
 Glu Leu Val Ser Thr Val Leu Leu Thr Ile Trp Thr Gln Asp Pro Thr

<400> 30690

Tyr Asn Val Val Asp Arg Gly Ser His Arg Arg Gly Ala Thr Asn Gly
 1 5 10 15
 Lys Ser Pro Asn Gln Gln Ile Gly Ala Ala Phe Arg Thr Cys Gly Glu
 20 25 30
 Thr Thr Arg Asn Leu Arg Ser Leu Gly Ile Gly Pro Lys Ser Trp Ser
 35 40 45
 Gly Arg Arg Leu Leu Arg Ser Thr Leu Leu Ser Arg Asp Ser Pro Lys
 50 55 60
 Gln Gly Lys Ser Asp Ser Asp Ala Ser Asn Pro Leu Arg Leu Val His
 65 70 75 80
 Val Gln Thr Arg Asp Val Leu Lys Thr Glu Gly Ile Glu Thr Lys Arg
 85 90 95
 Tyr Ala Val Ile Ser Tyr Thr Trp Ser Gln Phe Ser Lys Glu Glu Leu
 100 105 110
 Leu Glu Trp Ala Thr Ser Arg Ala Met Gln Leu Gly Tyr Glu Tyr Ile
 115 120 125
 Trp Ile Asp Gln Tyr Cys Ile Asp Gln Lys Asn Lys Gln Glu Lys Asn
 130 135 140
 Lys Glu Ile Lys Arg Met Arg Asp Tyr Tyr Lys Asn Ala Ala Gln Val
 145 150 155 160
 Leu Val Leu Val Pro Asp Val Thr Ser Leu Ala Arg Phe Asp Val Ala
 165 170 175
 Ser Thr Asp Gln Leu Ile His Val Asp Ala Ala Ile Asn Ala Ser Arg
 180 185 190
 Asp Val Leu Lys Gln Phe Val Ser Cys Glu Trp Leu Lys Arg Val Trp
 195 200 205
 Thr Phe Gln Glu Ala Trp Val Ala Arg Gln Cys Val Leu Cys Thr Lys
 210 215 220
 Glu Gln Met Leu Asp Gly Thr Val Met Asp Ala Leu Leu Gly Leu Leu
 225 230 235 240
 Lys Tyr Glu Ala Val Asn Arg Pro Arg Val Met Cys Ile Thr Ser Lys
 245 250 255
 Ser Ile Ala Asn Pro Val Val Ala Asn Pro Asn Thr Val Val Trp Glu
 260 265 270
 Gly Val Leu Ser Asn Arg Gln Thr Val Val Gly Ser Ile Asp Arg Trp
 275 280 285
 Ile Leu Gln Ser Gly Arg Arg Val Tyr Glu Pro Pro Arg Leu Thr Leu
 290 295 300
 Val Gln Ala Trp Glu Ala Ser Gln Gly Arg Asn Thr Val Asn Glu Glu
 305 310 315 320
 Asp Arg Val Tyr Ala Leu Leu Ser Ser Ile Glu Gly Gly Asp Arg Val
 325 330 335
 Thr Val Glu Arg Gly Arg Ser Leu Leu Ala Val Ile Gln Asp Cys Val
 340 345 350
 Glu Ala Gly Ile Val Thr Ala Asp Leu Leu Ala Gly Asn Asp Pro Ser
 355 360 365
 Thr Val Ala Asp Arg Cys Trp Met Pro Asp Leu Thr Gly Ser Gly Pro
 370 375 380
 Gln His Pro Leu Arg Val Ala Ser Ala Ser Glu Lys Gln Gln Gln Leu
 385 390 395 400
 Val Trp Arg Gly Gly Lys Val Ser Val Lys Gly Lys Ile Phe Gly Phe
 405 410 415
 Ala Asp Val Ser Val Trp Leu Arg Ile Ala Leu Val Lys Thr Gln Asp
 420 425 430
 Pro Ile Gln Gln Ser Glu Gly Ser Asp Arg Pro Trp Ile Gln Phe Ala
 435 440 445

Leu Ser Thr Arg Gln Lys Thr Trp Thr Pro Lys Asp Leu Ile Lys Ser
 450 455 460
 Asp Phe Leu Leu Val Gln Pro Met Pro Gly Cys Thr Gln Thr Val Leu
 465 470 475 480
 Val Ser Gly Lys Lys Leu Ala Asp Gly Ser Phe His Arg Ser Ser Pro
 485 490 495
 Arg Gly Trp Lys Asp His Gly Gly Gln
 500 505

<210> 30691
 <211> 128
 <212> PRT
 <213> A.fumigatus

<400> 30691
 Ser Val Trp Met Thr Arg Ile His Arg Arg Cys Gly Arg Arg Leu Met
 1 5 10 15
 Thr Thr Gly Asp Tyr Tyr Thr Gly Gly Ser Leu Asn Pro Ala Arg Ser
 20 25 30
 Leu Gly Pro Asp Val Ile Asn Arg Ser Phe Pro Gly Tyr His Trp Ile
 35 40 45
 Tyr Trp Val Gly Pro Leu Leu Gly Ser Leu Leu Ala Cys Gly Phe Tyr
 50 55 60
 Thr Phe Leu Arg Met Phe Lys Tyr Glu Ser Val Asn Pro Gly Gln Asp
 65 70 75 80
 Tyr Asp Glu Trp Glu Ala Lys Arg Asn His Gly Ser Phe Asp Gly Asn
 85 90 95
 Gly Arg Glu Ser Thr Ala Phe Ser Asp Ser Thr Ala Gly Ala Gln Ser
 100 105 110
 Gln Ser Pro Arg Gly Val Asn Arg Pro Val Ser Gly Ala Glu Gln Val
 115 120 125

<210> 30692
 <211> 313
 <212> PRT
 <213> A.fumigatus

<400> 30692
 Thr Ser Val Phe Val Phe Ser Val Ser Ser Lys Asp Thr Met Ala Phe
 1 5 10 15
 Gly Lys Arg Asn Gly Glu Glu Arg Arg Val Leu His Arg Thr Gln Ser
 20 25 30
 Gln Leu Pro Met Leu Gly Leu Ala Asp Ser Ala Arg Asn Asn Leu Ile
 35 40 45
 Ala Val Val Gly Glu Phe Val Gly Thr Phe Leu Phe Leu Phe Phe Ser
 50 55 60
 Phe Ala Gly Thr Gln Val Ser Asn Thr Pro Lys Pro Val Ala Gly Ala
 65 70 75 80
 Pro Pro Asn Thr Ser Asn Leu Leu Tyr Ser Ala Leu Ser Phe Gly Phe
 85 90 95
 Ser Leu Thr Val Asn Ile Trp Ala Phe Tyr Arg Val Thr Gly Gly Leu
 100 105 110
 Phe Asn Pro Val Val Ser Pro Thr His Glu Leu Gln His Asn Gly Ser
 115 120 125
 Ala Leu Ser Glu Gln Val Ser Leu Ala Leu Cys Leu Val Gly Gly Met
 130 135 140

11697

Pro Pro Leu Arg Gly Val Leu Val Phe Met Ala Gln Leu Val Gly Gly
 145 150 155 160
 Ile Ala Ala Ala Gly Val Val Ser Ala Leu Phe Pro Gly Asp Leu Asn
 165 170 175
 Val Gly Thr Arg Leu Gly Gly Gly Ala Ser Ile Ser Gln Gly Leu Phe
 180 185 190
 Ile Glu Met Phe Leu Thr Ala Gln Leu Val Phe Val Ile Ile Met Leu
 195 200 205
 Ala Val Val Lys His Lys Ser Thr Phe Leu Ala Pro Val Gly Ile Gly
 210 215 220
 Leu Thr Phe Phe Val Thr Glu Met Ile Gly Met Asp Asp Pro Asn Pro
 225 230 235 240
 Pro Ser Met Arg Thr Glu Ala Asn Asp Asn Arg Arg Leu Leu Tyr Gly
 245 250 255
 Gly Ile Ala Glu Pro Arg Ala Leu Ala Trp Pro Gly Arg Asp Gln Pro
 260 265 270
 Glu Leu Pro Trp Leu Ser Leu Asp Leu Leu Gly Trp Thr Ala Ala Arg
 275 280 285
 Val Ser Ala Gly Leu Arg Ile Leu His Leu Pro Pro Asp Val Gln Ile
 290 295 300
 Arg Val Arg Gln Pro Gly Ala Gly Leu
 305 310

<210> 30693

<211> 306

<212> PRT

<213> A.fumigatus

<400> 30693

Gly Leu Cys Arg Asn Lys Pro Leu Gly Leu His Leu Phe Ser Ser Ser
 1 5 10 15
 His Asp Arg Pro Ser Gly Glu Arg Arg Tyr Ser Asp Ser Ala Leu Glu
 20 25 30
 Val Glu Asp Asn Ala Lys Ser Gly Arg Glu Asp Leu Ile Asp Leu Arg
 35 40 45
 Glu Ser Gln Asp Gln Ser His His Asp Ala His Pro Glu Asn Ser Val
 50 55 60
 Ala Val Gln Arg Thr Asp Glu Thr Pro Asp Phe Asp Thr Thr Ile His
 65 70 75 80
 Thr Pro Glu Val Phe Leu Phe Asp Tyr Gly Thr Val Val Ile Trp Gly
 85 90 95
 Met Ser Pro Ala Gln Glu Ser Arg Phe Leu Ser Asp Val Ser Lys Phe
 100 105 110
 Ala Asn Ser Ile Leu Ser Pro Glu Asp Thr Gln Val Glu Asn Phe Asn
 115 120 125
 Phe Tyr Tyr Ala Arg Glu Tyr Gln Ala Arg Ile Tyr Asn Asp Phe Ile
 130 135 140
 Ser Leu Arg Asp Pro Arg Asn His Met Ile Lys Leu Ala Ile Ser His
 145 150 155 160
 Ala Leu Ser Gln Ser Val Lys Thr Ser Leu Phe Glu Asp Leu Val Ser
 165 170 175
 Glu Thr Ile Ser Asn Thr Ala Pro Leu Pro Ala Gln Ile Ala Gln Thr
 180 185 190
 Gly Ser Val Asn Met Thr Arg Arg Gln Ile Asn Met Gln Ile Gly Glu
 195 200 205
 Leu Phe Ile Leu Arg Ile Asn Ile His Leu Gln Gly Ser Val Leu Asp

11698

```

      210              215              220
Ser Pro Glu Leu Met Trp Ala Glu Pro Gln Leu Glu Pro Val Tyr Gln
225              230              235              240
Ala Val Arg Ser Tyr Leu Glu Met Asp Gln Arg Val Ser Leu Leu Thr
      245              250              255
Glu Arg Leu Asp Val Ile Ala Asp Leu Leu Ala Val Leu Lys Asp Gln
      260              265              270
Leu Thr His Arg His Gly Glu Tyr Leu Glu Trp Ile Gly Lys Ser Leu
      275              280              285
Thr Ser Ser Arg Arg Val Asn Pro Cys Leu Ala His Gln Leu Gln Ser
      290              295              300
Ser Ser
305

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<210> 30694
 <211> 112
 <212> PRT
 <213> A.fumigatus

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<400> 30694
Gly Ala Phe Ser Val Phe Phe Phe Phe Leu Phe Phe Leu Phe Phe Leu
1              5              10              15
Phe Phe Ala His Ser Arg Leu Ile Ser Leu Ser Phe Cys Phe Ile Ser
      20              25              30
Gln Ala Ala Ile Pro Ile Trp Lys Glu Gly Leu Phe Tyr Ile Asp Phe
      35              40              45
Ser Gln Asn Gly Met Leu Ala Leu Val Val Thr Leu Met Ile Ser Ala
      50              55              60
Trp Met Pro Phe Ser Cys Leu Leu Glu Asn Gln Ser Arg Arg Cys Leu
65              70              75              80
Glu Phe Ala Ala Arg Gln Gln Met Glu Asp Ser Leu Ala Thr Gln Cys
      85              90              95
Ala Pro Leu Ser Asn Tyr Ser Gln Ala Ser Cys Ile Leu Gly Ser Lys
      100              105              110

```

<210> 30695
 <211> 66
 <212> PRT
 <213> A.fumigatus

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<400> 30695
Glu Arg Cys Phe Ile Met Asp Val Pro Asp Asp Met Leu Asn Ile Asn
1              5              10              15
Ser Leu Ser Asn Gly Thr Tyr Lys Asp Gly Cys Leu Asp Ile Ser Lys
      20              25              30
Lys Asp Ala Arg Val Pro Asn Glu Asp Asp Gln Leu Gln Thr Gln Ser
      35              40              45
Ser Thr Pro Tyr Ala Asn Thr Ser Gly Ala Lys Tyr Gly Pro Gln Leu
      50              55              60
Met Gln
65

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<210> 30696
 <211> 104
 <212> PRT
 <213> A.fumigatus

<400> 30696

```

Asn Leu Cys Gln Arg Thr Glu Glu Gln Ser Ile Asn Asp Asn Pro Asp
1           5           10           15
Ser Pro His His Gly His Ser Asp Lys Asn Ala Tyr Asn Leu Pro Cys
           20           25           30
Asp Lys His Ile Asp Ala Trp Gly Pro Thr Ser Thr Thr Ser Glu Arg
           35           40           45
Lys Ser Thr Gly Trp Leu Lys Asn Gly Lys Ala Thr Lys Lys Ser Gly
           50           55           60
Asp Tyr Gln Gly Tyr Val Ala Asn Phe His Ser Glu Lys His Leu Asp
65           70           75           80
His Pro Glu Gly Ala Lys Ile Pro Ala Gly Arg Gln Pro Arg Phe Leu
           85           90           95
Asn Asn Ala Thr Asp Asn Val Gln
           100

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<210> 30697

<211> 297

<212> PRT

<213> A.fumigatus

<400> 30697

```

His Leu Ala Ala Ser Ala Asp Arg Arg Pro Val Asp Pro Pro Pro Val
1           5           10           15
Val Glu Leu Arg Ile Phe Glu Ser Asp Pro Asn Asp Asp Leu His Lys
           20           25           30
Thr Asp Ile Thr Phe Ala Tyr Asn Ala Asn Phe Phe Leu Phe Ala Thr
           35           40           45
Leu Glu Thr Ala Arg Pro Met Ala Gln Gly Arg Leu Thr Gly Pro Pro
           50           55           60
Thr Cys Pro Val Leu Thr Gly Val Pro Val Ala Gly Val Ala Tyr Leu
65           70           75           80
Asp Arg Pro Gln Gln Ala Gly Tyr Phe Ile Phe Pro Asp Leu Ser Val
           85           90           95
Arg His Glu Gly Arg Tyr Arg Leu Ser Phe His Leu Tyr Glu Glu Ile
           100           105           110
Lys Asp Ile Lys Asp Ala Asp Lys Asp Thr Pro Met Pro Asp Leu Asn
           115           120           125
Ser Ser Thr Asn Leu Thr Lys Pro Ser Ala Pro Lys Ala His Leu Asn
           130           135           140
Phe Arg Leu Glu Val Lys Ser Val Pro Phe Thr Val Tyr Ser Ala Lys
145           150           155           160
Lys Phe Pro Gly Leu Ala Thr Ser Thr Ser Leu Ser Arg Ile Ile Ala
           165           170           175
Glu Gln Gly Cys Arg Val Arg Ile Arg Arg Asp Val Arg Met Arg Arg
           180           185           190
Arg Gly Glu Lys Arg Thr Asp Asp Tyr Asp Phe Asp Asp Glu Arg Ala
           195           200           205
Phe Ala Thr Arg Ser Asp Arg Tyr Thr Thr Pro Asp Met Tyr Ala Ala
210           215           220
Asn Ser Ala Glu Arg Ala Arg Ser Thr Ser Ile Ser Thr Thr Ala Asp
225           230           235           240
Thr Ser Phe Pro Tyr Gly Ser Asp Ala Gln Arg Arg Pro Ser Ala Gly
           245           250           255
Asp Tyr Gly Phe Gln Gly Ala Gln Pro Tyr Gln Arg Ser Met Pro Ala

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11700

260 265 270
 Ala Ser Ala Ala Pro Ala Pro Ala Pro Val His Ser Pro Ala Thr Ser
 275 280 285
 Ala Gln Thr Ser Ser Tyr Gln Val Phe
 290 295

<210> 30698
 <211> 320
 <212> PRT
 <213> A.fumigatus

<400> 30698
 Phe Val Val Cys Leu Arg Gln Leu Asn Leu Thr Ser Pro Gly Ser Thr
 1 5 10 15
 Cys Val Ala Leu Met Pro Leu Thr Gln Pro Leu Arg Cys Arg Ala Gly
 20 25 30
 Arg Pro Ser Pro Pro Pro Pro Ser Thr Phe Val Arg Arg Pro Val Phe
 35 40 45
 Ser Gly Arg Ser Gly Ile Ile Ser Thr Pro Gly Ala Arg Leu Leu Pro
 50 55 60
 Leu Lys Arg Val Phe Cys Thr Ser Thr Ile Leu Gln Arg His Lys Ser
 65 70 75 80
 Pro Leu Ser Ser Asn Ala Arg Val Arg Ser Leu Pro Arg Arg Ser Leu
 85 90 95
 Thr Pro Phe Ala Lys Thr Ile Ser Thr Pro Asn Leu Ile Thr Thr Ser
 100 105 110
 Phe Met Ala Thr Gln Thr Arg Glu His Gly Gly His Gly Gly His Ser
 115 120 125
 His His His His His His His Gly Asn Val Tyr Leu Thr Ser Ala Asn
 130 135 140
 Lys Ser Asp Ala Gly Val Arg Ile Thr Arg Ile Gly Leu Val Ala Asn
 145 150 155 160
 Leu Ala Met Ala Ile Gly Lys Phe Ile Gly Gly Tyr Val Phe His Ser
 165 170 175
 Gln Ala Leu Ile Ala Asp Ala Tyr His Ala Leu Thr Asp Leu Val Ser
 180 185 190
 Asp Phe Leu Thr Leu Gly Thr Val Ala Trp Ser Leu Lys Pro Pro Thr
 195 200 205
 Glu Arg Phe Pro Asn Gly Tyr Gly Lys Ile Glu Ser Ile Gly Ala Leu
 210 215 220
 Gly Val Ser Gly Leu Leu Leu Cys Gly Gly Val Phe Met Gly Leu Asn
 225 230 235 240
 Ser Gly Gln Val Leu Leu Asp Gln Phe Phe Pro Glu Ala Ala Glu Ala
 245 250 255
 Ile Ala His Ser Gly Val Leu Gly His Gly His Ser His Ala His Gly
 260 265 270
 Val Gln Ala Leu Gly Pro Asn Ile Asn Ala Ala Trp Leu Ala Gly Gly
 275 280 285
 Ser Ile Ile Val Lys Glu Trp Leu Tyr Arg Ala Ser Glu Tyr Pro Arg
 290 295 300
 Pro Glu Phe Gln Ile Pro Ile Ser Ala Ser Val Thr Val Val Ile Ser
 305 310 315 320

<210> 30699
 <211> 62
 <212> PRT

11701

<213> A.fumigatus

<400> 30699

Ile Ser Phe Phe Pro Leu Cys Ile Ser Leu Gln Asn Asn Met Asn Tyr
1 5 10 15
Thr Lys Leu Ser Ile Asn Tyr Phe Gly Asp Thr Pro Ser Gln Thr Trp
20 25 30
Val Gln Pro Arg Arg Thr Gln Cys Pro Glu Leu Pro Gln Pro Ser Asn
35 40 45
Arg Thr Pro Ala Asn Leu Leu Pro Leu Ile Cys Arg Val Pro
50 55 60

<210> 30700

<211> 72

<212> PRT

<213> A.fumigatus

<400> 30700

Thr Val Lys Leu Asn Phe Pro Gly Glu Tyr Val Arg Arg Pro Asp Ala
1 5 10 15
Ala Asp Ala Ala Pro Ala Val Gln Gly Arg Ser Ser Ile Thr Thr Thr
20 25 30
Thr Ile Asn Phe Cys Pro Pro Pro Arg Ile Gln Trp Thr Val Trp Asp
35 40 45
His Phe His Ser Trp Cys Ala Ser Leu Thr Pro Glu Ala Ser Leu Leu
50 55 60
His Ile Asn Asp Pro Ser Ala Pro
65 70

<210> 30701

<211> 101

<212> PRT

<213> A.fumigatus

<400> 30701

Val Pro Thr Ser Arg Ile Pro Asn Ser Asn Phe Cys Leu Arg Tyr Cys
1 5 10 15
Gly Tyr Gln Leu Thr Ala Ala Gly Leu Leu Phe Leu Ala Met Lys Ile
20 25 30
Ala Asn Glu Arg Lys Ser Ser Val Leu Ala Ser Asn Ala Val His His
35 40 45
Arg Ile Asp Ser Leu Thr Ser Ile Val Ala Leu Phe Thr Ile Gly Gly
50 55 60
Ser Tyr Met Phe Gln Asp Ala Ser Trp Leu Asp Pro Val Gly Ala Phe
65 70 75 80
Ser Cys Leu His His Gly Ala Ala Arg Ile Arg Ala Lys Arg Ile Glu
85 90 95
Glu Trp Glu Gly Arg
100

<210> 30702

<211> 161

<212> PRT

<213> A.fumigatus

<400> 30702

11702

Asn Pro Cys Arg Tyr Tyr Ser Val Thr Ile Tyr Asn Gln Ile Gly Ile
 1 5 10 15
 Ala Gly Asp Glu Thr Leu Lys Tyr Gln Ala Ile Asn Ser Ile Ile Ala
 20 25 30
 Leu Val Ala Glu Cys Leu Cys Met Ala Phe Ile Asp Arg Phe Gly Arg
 35 40 45
 Arg Trp Thr Leu Ile Gly Gly Asn Leu Gly Asn Met Val Thr Phe Ile
 50 55 60
 Ile Ala Cys Ile Leu Leu Ala Arg Phe Pro Pro Glu Ala Asn Asn Thr
 65 70 75 80
 Gly Ala His Trp Gly Phe Ile Ile Met Thr Trp Leu Tyr Asn Phe Ser
 85 90 95
 Phe Ser Cys Thr Cys Gly Pro Leu Ser Trp Ile Ile Pro Ala Glu Val
 100 105 110
 Phe Asp Thr Arg Thr Arg Ser Lys Gly Val Phe His Cys His Asn Asp
 115 120 125
 Ile Val Cys Val Gln His His Asp Arg Ser Ser Asp Ala His Arg Asn
 130 135 140
 Asp Lys Cys Ala Leu Pro Leu Leu Leu Ser Leu His His Leu Gln Phe
 145 150 155 160
 His

<210> 30703
 <211> 80
 <212> PRT
 <213> A.fumigatus

<400> 30703
 Leu Leu Pro Cys Trp Pro Asp Arg Ser Thr Asp Ala Ser Pro Leu Phe
 1 5 10 15
 Lys Arg Gly Asn Ser Ala Arg Arg Ser Ser Tyr Ser Val Ile Ala Tyr
 20 25 30
 Cys Leu Asp Leu Pro Asn Tyr Ala Ile Pro Arg Gly Ser Glu Leu Lys
 35 40 45
 Thr Asp Tyr Lys Ser Phe Phe Cys Pro Leu Pro Ser Met Phe Ser Pro
 50 55 60
 Lys Ala Leu Val Pro Arg Arg Ser Cys Ile Pro Ile Gln Asn Ile Ser
 65 70 75 80

<210> 30704
 <211> 135
 <212> PRT
 <213> A.fumigatus

<400> 30704
 Pro Gly Cys Thr Thr Ser Pro Ser Arg Ala Pro Ala Ala Pro Phe Arg
 1 5 10 15
 Gly Leu Tyr Leu Pro Lys Ser Ser Thr Arg Ala His Ala Arg Arg Gly
 20 25 30
 Phe Ser Ile Ala Thr Met Thr Ser Phe Ala Phe Asn Thr Met Ile Gly
 35 40 45
 Gln Val Thr Pro Ile Ala Met Thr Asn Val Arg Tyr Arg Tyr Tyr Tyr
 50 55 60
 Leu Phe Ile Ile Cys Asn Phe Thr Asn Ala Leu Val Phe Trp Leu Leu
 65 70 75 80

11703

Leu Ser Glu Thr Lys Lys Leu Leu Leu Glu Glu Met Asn Tyr Leu Phe
 85 90 95
 Ser Asn Ala Pro Trp Ile Val Pro Val Thr Arg Thr Glu Asp Tyr Thr
 100 105 110
 Pro His Asp Leu Glu Arg Lys Val Glu Ala Gln Gln Glu Ile Gln Ala
 115 120 125
 Val Phe Ala Thr His His Glu
 130 135

<210> 30705
 <211> 101
 <212> PRT
 <213> A.fumigatus

<400> 30705
 Val Glu His Ala Ser Val His Leu Val Ile Glu Val Leu Arg Gly Leu
 1 5 10 15
 Thr Asn Arg Ser Ala Leu Ala Tyr Val Asn Glu Ala Glu Val Gly Gln
 20 25 30
 Gly Ile Arg Asp Ser Gly Ile Pro Arg Glu Glu Ile Trp Ile Thr Thr
 35 40 45
 Lys Leu Asp Asn Thr Trp His His Arg Val Gln Glu Gly Ile Asp Ser
 50 55 60
 Ser Leu Lys Ser Leu Gly Val Glu Tyr Val Asp Leu Tyr Leu Met His
 65 70 75 80
 Trp Pro Cys Ser Thr Asp Pro Asn Asp Lys Ser Lys His Leu Pro Asp
 85 90 95
 Trp Asp Phe Ile Lys
 100

<210> 30706
 <211> 241
 <212> PRT
 <213> A.fumigatus

<400> 30706
 Ser Val Val Gly Glu Pro Arg Ser Gln Cys Glu Lys Glu Gln Gly Ala
 1 5 10 15
 Lys Thr Ser Glu Glu Asn Ser His Asp Gly Leu Phe His Gln Val Tyr
 20 25 30
 Glu Trp Leu Gln Gln Glu Lys Val Lys Gln Lys Ser Arg Arg Ser Lys
 35 40 45
 Leu Arg Gly Thr Gly Glu Gly Val Glu Ser Asp Gly Asp Asp Asp Tyr
 50 55 60
 Tyr Asp Gly Ile Val Asp Lys Thr Ala Ser His Asp Ser Glu Ser Thr
 65 70 75 80
 Phe Ala Leu Asp Lys Leu Glu Lys Ile Leu Val Arg Tyr Ala Ala Ser
 85 90 95
 Arg Ile Glu Gly Ser Ser Ser Ala Tyr Pro Leu Arg Gly Pro Thr Arg
 100 105 110
 Lys Arg Ser Arg Ile Lys Gly Leu Arg Arg Gly Ser Ala Ser Glu Ser
 115 120 125
 Asp Gln Tyr Asp Leu Asp Thr Ala Val Pro Ala Val Asp Ala Val Leu
 130 135 140
 Asp Asn Ser Lys Thr Leu Ala Tyr Thr Gly Gly Thr Ala Glu Glu Asp
 145 150 155 160

11704

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Asp Arg Arg Leu Lys Asp Lys Glu Ala Trp Leu Thr Phe Lys Ser Glu
      165      170      175
Ile Val Arg Leu Ala Ile Thr Leu Gln Ile Lys Gly Trp Arg Lys Phe
      180      185      190
Pro Gln Glu Leu Ala Gly Glu Ile Glu Val Ile Arg Leu Ser Gly Ala
      195      200      205
Leu Thr Asn Ala Val Tyr Val Val Asn Pro Pro Lys Ser Leu Pro Pro
      210      215      220
Pro Lys Gly Glu Asp Gly Ser Tyr Ser Leu Val Pro Arg Lys Ala Pro
225      230      235      240
Pro

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<210> 30707

<211> 171

<212> PRT

<213> A.fumigatus

<400> 30707

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Ala Ala Ile Phe Arg Arg Leu Ser Arg Lys Asp Ile Gly Pro Lys Val
1      5      10      15
Leu Gly Thr Phe Asn Tyr Gly Arg Phe Glu Glu Phe Leu Glu Ala Arg
      20      25      30
Pro Leu Thr Pro Lys Asp Leu Arg Val Pro Glu Thr Met Lys Gln Ile
      35      40      45
Ala Lys Arg Met Arg Glu Leu His Glu Gly Ile Glu Leu Leu Glu Glu
      50      55      60
Glu Arg Glu Gly Gly Pro Met Val Phe Lys Asn Trp Asp Lys Trp Val
65      70      75      80
Asp Arg Cys Glu Gln Val Ile Asn Trp Leu Asp Met Glu Ile Gln Ser
      85      90      95
Asp His Asn Glu Ala Lys Ala Ala Ser Glu Pro Trp Arg Arg Arg Gly
      100      105      110
Phe Val Cys Gly Val Pro Trp Pro Ile Phe Arg Lys Ala Val Glu Asn
      115      120      125
Tyr Arg Lys Trp Leu Val Ser Ser Cys Gly Gly Ile Lys Glu Ile Lys
      130      135      140
Arg Gln Leu Val Phe Ala His Asn Asp Val Ser His Ser Phe Arg Gln
145      150      155      160
Ile His Cys Leu Leu Ile Val His Pro Leu Thr
      165      170

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<210> 30708

<211> 124

<212> PRT

<213> A.fumigatus

<400> 30708

```

Ala Pro Leu Pro Glu Glu Thr Arg Arg Asp Tyr Gly Ala Cys Ser Thr
1      5      10      15
Leu Leu Ser Gly Val Pro Trp Gly Ile Val Gln Ala Lys Val Pro Gly
      20      25      30
Met Glu Glu Gly Ile Ala Ala Ala Ala Ala Lys Ala Ser Asn Gly
      35      40      45
Asn Gly His Ser Ser Glu Ser Asn Gly Ser Ala Val Ala Ala Ala Glu
50      55      60

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11705

Gln Pro Ala Gln Pro Ala Val Asp Ala Asp Val Asp Glu Gly Asp Glu
 65 70 75 80
 Phe Asp Tyr Leu Ala Tyr Ala Gln Asp Arg Ala Met Phe Phe Trp Ala
 85 90 95
 Asp Leu Leu Ala Leu Asn Leu Val Arg Glu Asp Glu Leu Pro Pro Gln
 100 105 110
 Met Val Glu His Val Lys Ser Arg Met Ile Asp Tyr
 115 120

<210> 30709

<211> 333

<212> PRT

<213> A.fumigatus

<400> 30709

Arg Leu Ser Lys Lys Lys Gln Ser Ser Tyr Val Tyr Met Phe Gln Ala
 1 5 10 15
 Gln Cys Arg Gln Val Phe Glu Phe Thr Glu Ile Asp Asp Ile Tyr Pro
 20 25 30
 Ala Leu Leu Asn Leu Arg Arg Pro Thr Leu Pro Phe Asn Ala Lys Val
 35 40 45
 Thr His Asp His Leu Arg Pro Leu Gln Lys Leu Ala Gln Asp Leu Lys
 50 55 60
 Ala Gly Ala Gln Ala Leu Glu Asn Ala Tyr Lys Leu Gly Thr Gly Tyr
 65 70 75 80
 Asp Asp Leu Ala Val Val Leu Leu Glu Pro Ser Asp Lys Ala Asp Thr
 85 90 95
 His Cys Phe Asp Asp Met Leu Asn Ala Ser Met Ala Leu Lys Ala Val
 100 105 110
 Asp Ser Ser Ile Arg His Ala Phe Asn Gly His Arg Ser Ile Gln Asn
 115 120 125
 Thr Ile Ile Leu Asp Ile Arg Ala Phe Arg Ser Asp Ser Ile Arg Arg
 130 135 140
 Thr Gln Gly Ala Ser Asp Lys Leu Glu Ala Asp Glu Leu Ala Tyr Thr
 145 150 155 160
 Ala Phe Glu Gln Ile Leu Cys Asn Leu Lys Pro Asp Val Ile Leu Val
 165 170 175
 Cys Gln Cys Gln Thr Asn Thr Asn Glu Val Gly Ser Arg Phe Ala Arg
 180 185 190
 Gln Ala Cys Ser Ser Ile Asp Glu Ala Thr Asp Ile Thr Val Leu Arg
 195 200 205
 Leu Pro Arg Thr Gln His Glu Ser Val Met Val Lys Ser Phe His Pro
 210 215 220
 Met Tyr Leu Glu Tyr Met Arg Glu Ala Pro Asn Asp Ser Ala Thr Lys
 225 230 235 240
 Ala Val Leu Arg Glu Tyr Leu Phe Asp Ala Gly Phe Ile Ile Ala Ser
 245 250 255
 Asn Ala Leu Ala Gly Arg Ser Ile Thr Gly Phe Gly Leu His Asn Leu
 260 265 270
 Lys Ala Cys Ala Arg Asp Gly Pro Ala Phe Ile Ala Thr Pro Gln Gly
 275 280 285
 Val Arg Ile Ser Tyr Leu Trp Thr Ser Gly Ser Asp Ile Ala Ser Thr
 290 295 300
 Glu Leu Val Glu Ala Leu Lys Thr Leu Gly Ile Ser Ser Lys Val Gly
 305 310 315 320
 Trp Cys Val Ser His Cys Arg Val Arg Leu Met Asp Ser

4000 30710

Leu	Gln	Glu	Glu	Ala	Ser	Arg	Val	Arg	Ser	Cys	Pro	Thr	Leu	Ser	Gln
1				5					10					15	
Val	Arg	Leu	Val	Gly	Lys	Gly	Gly	Lys	Pro	Ile	Tyr	Leu	Ser	Pro	Pro
			20					25					30		
Glu	Leu	Gln	Phe	Val	Ala	Lys	Val	Asn	Ala	Gly	Ala	Lys	Lys	Ala	Thr
		35					40					45			
Cys	Val	Asp	Val	Thr	His	Lys	Lys	Arg	Gly	Arg	Pro	Pro	Leu	Lys	Ala
	50					55					60				
Glu	Asp	Ala	Ser	Leu	Arg	Thr	Tyr	Thr	Thr	Gln	Ala	Glu	Asn	Ala	Val
65					70					75					80
Thr	Ser	Gly	Glu	Gln	Gln	Pro	Pro	Leu	Ala	Arg	Arg	Thr	His	Thr	His
				85					90					95	
Lys	Ser	Thr	Gly	Ser	Arg	Glu	Ile	Arg	Pro	Val	Thr	Asp	Leu	Gln	Ile
			100					105					110		
Pro	Gly	Thr	Pro	His	Gly	Thr	Val	Gly	Phe	Arg	Ala	Ala	Pro	Gly	His
		115					120					125			
Pro	His	Arg	Trp	Ser	Thr	Ser	Val	Phe	Pro	Gln	Ala	Val	Asp	Pro	Ser
	130					135					140				
Ile	Ser	Met	Gln	Ser	Asn	Leu	Gly	His	Arg	Arg	Phe	Ser	Ser	Ser	Gly
145					150					155					160
Ser	Ile	Pro	Gln	Met	Thr	Ala	Ala	Thr	Gln	Ser	Gly	Ile	Met	Pro	Leu
				165					170					175	
Thr	Ser	Gly	Phe	Ser	Pro	Val	Leu	Asn	Leu	Gly	Gly	Ser	Gln	Met	Gly
			180					185					190		
Ala	Arg	Arg	Ala	Phe	Ser	Ser	Tyr	Thr	His	Gln	Gly	Leu	Pro	Pro	Thr
			195				200					205			
Thr	Ser	Pro	Pro	Gln	Tyr	Gln	Gln	Pro	Phe	Gly	Val	Pro	Met	Pro	Pro
	210					215					220				
Tyr	Thr	Val	Ser	Pro	Arg	Met	Val	Ser	Arg	Leu	Pro	Pro	Gly	Asp	Thr
225					230					235					240
Arg	Glu	Ala	Tyr	Pro	Glu	Ser	Pro	Val	Arg	Leu	Pro	Pro	Ile	Phe	Pro
				245					250					255	
Pro	Ala	Met	Pro	His	Ser	Arg	Pro	Ala	Pro	Gln	Ala	His	Arg	Leu	Ser
			260					265					270		
Asp	Pro	Tyr	Pro	Ala	Val	Trp	Ser	Pro	Arg	Leu	Arg	Glu	Glu	Leu	Met
		275					280					285			
Gln	Pro	Gln	Pro	Gln	Gln	Gln	Thr	Arg	Gly	Ser	Ser	Pro	His	Ser	Leu
	290					295					300				
Met	Glu	Pro	Thr	Ser	Ser	Ala	Ala	Gln	Thr	Arg	His	Ala	Ala	Leu	Glu
305					310					315					320
His	Gly	His	Gly	Glu	Val	Ala	Pro	His	Gln	Ser	Asn	Ser	Ile	Ile	Gln
				325					330					335	
Gly	Ala	Gln	Thr	Leu	Ser	Val	Gln	Ser	Ser	Pro	Thr	Arg	Pro	Arg	Asp
			340					345					350		
Glu	Gln	Pro	Ala	Gly	Gly	Thr	Asp	Thr							

<210> 30711
 <211> 250
 <212> PRT
 <213> A.fumigatus

<400> 30711

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Thr Leu Pro Ala Val Val Pro Leu Gln Gln Gln Gly Pro Ser Thr Tyr
1          5          10          15
Gln Met Gln Ser Leu Val Leu Pro Pro Ser Ala Leu Thr Ser Thr Gln
          20          25          30
Phe Gly His Pro Arg Phe Ser Ser Ala Ser Glu Arg Leu Ala Leu Lys
          35          40          45
Tyr Thr Leu Pro Thr Asn Ala Arg Leu Cys Asn Ser Arg Asp Leu Pro
          50          55          60
Pro Val His Pro Met Ser Ser Ser Val Pro Ala Glu Asp Pro Leu Glu
          65          70          75          80
Thr Thr Arg His Val Lys Pro Pro Pro His Thr Thr Gly Leu Pro Thr
          85          90          95
Val Thr Ala Val Pro Val Thr Ala Pro Ala Val Thr Pro Ala Ser Val
          100          105          110
Ser Glu Thr Ala Leu Ala Ser Gly Ser Ser Gly Pro Ala Ala Gly His
          115          120          125
Thr Ser Ala Phe Gln Gln Tyr Val Ala Arg Thr Ala Gly Glu Glu Met
          130          135          140
Arg Pro Pro Phe Ile Phe Asn Glu Thr Val Pro Gly Ser Gln Ala Pro
          145          150          155          160
Leu Gly Thr Thr Glu Gln Arg Gly Ala Gln Glu Ser Ser Thr Ala Phe
          165          170          175
Pro Ser Ser Ser Arg Gly Thr Ser Pro Thr Gly Thr Thr Thr Arg Ala
          180          185          190
Leu Leu Pro Lys Gly Thr Arg Arg Thr Lys Ala His Val Ala Ser Ala
          195          200          205
Cys Val Asn Cys Lys Lys Lys His Leu Gly Cys Asp Pro Ala Arg Pro
          210          215          220
Cys Arg Arg Cys Val Leu Ser Gly Lys Glu Val Ser Gln Ser Ile Leu
          225          230          235          240
Val His Leu Ser Cys Ser Ser Leu Leu Arg
          245          250

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<210> 30712
 <211> 67
 <212> PRT
 <213> A.fumigatus

<400> 30712

```

Leu Ile Asp Leu Leu Met Ser Lys Gly Asn Ile Ser Leu Cys Pro Ser
1          5          10          15
Val Tyr Asn Ile Pro Thr Val Thr Arg Leu Gln Leu Phe Leu Leu Ile
          20          25          30
Ile Ala Ala Leu Phe Leu Ser Phe Gln Ser Thr Leu Ala Ala Arg Pro
          35          40          45
Ser Leu Phe Leu Asp Phe Val Pro Glu His Thr Phe Pro Val Ile Cys
          50          55          60
Phe Asp Ser
          65

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<210> 30713
 <211> 195
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (133), (168)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30713
 Ile Tyr Arg Ala Leu Cys Pro Ser Ala Pro Leu Pro Arg Ala Arg Val
 1 5 10 15
 Ala Ala Val Arg Thr Leu Tyr Asp Pro Thr Gln Glu Pro Ser Ala Asn
 20 25 30
 Thr Val Leu Asp Ala Gly Ala Leu Val Leu Tyr Phe Pro Gly Pro Lys
 35 40 45
 Thr Val Thr Gly Glu Asp Val Leu Glu Leu His Leu His Gly Gly Pro
 50 55 60
 Ala Ile Val Lys Ser Val Leu Ala Ala Ile Ala Arg Ser Asn Arg Pro
 65 70 75 80
 Glu Ser Thr Val Arg Tyr Ala Glu Pro Gly Glu Phe Thr Arg Arg Ala
 85 90 95
 Phe Met Asn Asn Arg Leu Asp Leu Pro Gln Ile Glu Ala Leu Gly Asp
 100 105 110
 Thr Leu Thr Ala Asp Thr Glu Gln Gln Arg Arg Leu Ala Val Arg Gly
 115 120 125
 Ala Ser Asp Thr Xaa Ser Arg His Tyr Glu Ser Trp Arg Gln Gln Leu
 130 135 140
 Leu Tyr Ala Arg Gly Glu Leu Glu Ala Leu Ile Asp Ser Pro Lys Ile
 145 150 155 160
 Ser Ile Ser Gln Lys Ser Pro Xaa Glu Ile Cys Pro Pro Pro Tyr His
 165 170 175
 Glu Gln Val Leu Arg Leu Gln Thr Pro Leu Glu Asn Ala Ser Leu Lys
 180 185 190
 Asn Ala Ser
 195

<210> 30714
 <211> 198
 <212> PRT
 <213> A.fumigatus

<400> 30714
 Ser Leu Leu Ser Gln Trp Asn Asn Met Pro Ser Arg Ala Ser Tyr Ser
 1 5 10 15
 Phe Val Pro Leu Gln Gly Gly Gly Gln Glu Arg Pro Met Asp Ile His
 20 25 30
 Asn His Glu Asp Gln Arg Glu Ile Leu Leu Ala Ala Gln Leu Ser Arg
 35 40 45
 Ile Val Cys Arg Met Leu Glu Val Glu Gly Phe Arg Lys Leu Glu Arg
 50 55 60
 Asp Phe Tyr Asn Ile Lys Trp Lys Gln Ile Ser Gln Glu Thr His Leu
 65 70 75 80
 Arg Phe Leu Asn Gln Leu Gly His Ile Leu Leu Ser Leu Arg Trp Arg

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<210> 30715
<211> 139
<212> PRT
<213> A.fumigatus
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<210> 30716
<211> 259
<212> PRT
<213> A.fumigatus
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<400> 30716
Ile Ser Gln Gly His Asp Ala Thr Ala Cys Pro Leu Gln Pro Gly Ala
1          5          10          15
Ser Ala Gly Arg Asp Ala Gly Met Ile Pro Leu Met Lys Ala Leu Arg
          20          25          30
Glu Thr Arg Trp Lys Val Leu Glu Gln Leu Ser Lys Ile Thr Thr Phe
          35          40          45
Thr Arg Arg Thr Ala Asn Glu Leu Pro Ile Asn Thr Met Ile Pro Pro
          50          55          60
Gln Val Arg Arg Leu Met Lys Ser Pro Glu Ile Gln Thr Leu Gln Asp

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11710

65 70 75 80
 Glu Phe Asp Ser Ala Arg Leu Tyr Leu Ala Arg Trp Ala Met Ser Ile
 85 90 95
 Ala Glu Gln Ser Glu Arg Glu Arg Ala Gln Arg Ile Trp Thr Ala Arg
 100 105 110
 Asp Val Leu Glu Met Glu Asn Ser Ser Val Gly Asp Phe Glu Ile Leu
 115 120 125
 Glu Leu Glu Thr Gly Thr Met Ala Ile Gln Glu Arg Arg Arg Thr Val
 130 135 140
 Thr Leu Gln Glu Trp Glu Asp Phe Phe Asp Ala Thr Thr Gly Arg Leu
 145 150 155 160
 Asn Val Thr Val Asp Glu Val Lys Glu Arg Ile Phe His Gly Gly Leu
 165 170 175
 Asp Pro Asn Asp Gly Val Arg Lys Asp Ala Trp Leu Phe Leu Leu Gly
 180 185 190
 Val Tyr Pro Trp Asp Ser Ser Arg Asp Glu Arg Gln Ala Leu Met Asn
 195 200 205
 Ser Lys Arg Asp Glu Tyr Ile Arg Leu Lys Gly Ala Trp Trp Glu Arg
 210 215 220
 Met Ile Glu Gly Ser Ser Thr Thr Glu Gln Tyr Glu Trp Trp Lys Glu
 225 230 235 240
 Gln Lys Asn Arg Ile Gly Thr Leu Ala Ser Pro Gly Arg Ile Cys Lys
 245 250 255
 Ser Ser Cys

<210> 30717

<211> 281

<212> PRT

<213> A.fumigatus

<400> 30717

Pro Leu Ser Thr Asn Leu Arg Ser His Ala Gly Arg Cys Ser Gly Ile
 1 5 10 15
 Leu Gly Phe Cys Trp Ile His Gly Gln Asn Gly Ile Ser His Thr Tyr
 20 25 30
 Pro Ser Gln Ile Asn Thr Ala Tyr Thr Asp Gln Glu Arg Asn Phe Leu
 35 40 45
 Arg Asp Gln Ser Gly Met Arg Ala Gln Leu Leu Thr Leu Asp His Leu
 50 55 60
 Val Gln Leu Met Asp Pro Gln Leu Tyr Leu His Leu Gln Ser Ala Asp
 65 70 75 80
 Ser Thr Asn Phe Phe Phe Phe Phe Arg Met Leu Leu Val Trp Tyr Lys
 85 90 95
 Arg Glu Phe Glu Trp Val Asp Ile Leu Arg Leu Trp Glu Thr Leu Trp
 100 105 110
 Thr Asp Tyr Phe Ser Ser Ser Phe His Phe Phe Val Ala Leu Ala Ile
 115 120 125
 Leu Glu Lys His Arg Asp Val Ile Met Asp His Leu Lys His Phe Asp
 130 135 140
 Glu Val Leu Lys Tyr Gly Lys His Val Thr Ser Thr Leu Thr His Val
 145 150 155 160
 Thr Ser Leu Ile Phe Asn Leu Ile Val Asn Glu Leu Ser Asn Thr Met
 165 170 175
 Glu Leu Val Pro Ile Leu Thr Arg Ala Glu Ser Leu Phe Arg Arg Phe
 180 185 190

11711

Glu Arg Thr Val Glu Ala Ile Asp Lys Lys Asn Asn Phe Pro Ala Pro
 195 200 205
 Ser Thr His Gln Arg Lys Pro Thr Gln Glu Ser Ala Leu Asn Lys Gly
 210 215 220
 Lys Ser Pro Gln Arg Pro Gln Ser Val Gly Tyr Ser Ser Gly Val Ser
 225 230 235 240
 Ala Gly Pro Ala Ser Ser Ser Ala Ala Gly Asp Asn Ala Glu Ser Lys
 245 250 255
 Val Ile Ser Pro Glu Leu Arg Gln Leu Leu Ser Lys Glu Ile Leu Trp
 260 265 270
 Lys Gln Pro His Pro Thr Ser Ser Lys
 275 280

<210> 30718
 <211> 626
 <212> PRT
 <213> A.fumigatus

<400> 30718
 Leu Lys Ser Leu Pro Ser Phe Gln Ser Arg Gly Val Ala Glu Leu Pro
 1 5 10 15
 Ser Gln Gln Thr Thr Arg Ser Thr Arg Ser Ala Ser Leu Arg Gln Pro
 20 25 30
 Ser Asp Glu Pro Thr Ser Gln Pro Ala Thr Arg Ser Thr Arg Ser Ala
 35 40 45
 Ser Arg Gln Leu Ser Ala Glu Pro Ala Thr Glu Ser Asn Thr Arg Ser
 50 55 60
 Thr Arg Lys Ala Arg Thr Arg Gln Ser Ser Ala Glu Pro Ser Thr Gln
 65 70 75 80
 Thr Thr Ser Arg Ser Arg Ser Arg Arg Ala Gly Asn Gly Val Met Ala
 85 90 95
 Ser Ile Glu Glu Ala Pro Thr Thr Gln Thr Arg Thr Arg Lys Thr Ser
 100 105 110
 Thr Arg Arg Ser Thr Arg Gln Ser Thr Gln Lys Thr Ser Asp Asp Glu
 115 120 125
 Thr Asp Pro Thr Asp Ala Glu Gln Ala Ser Gln Pro Gly Ser Val Val
 130 135 140
 Asp Glu Thr Ser Ala Ala Gln Glu Ser Leu Glu Leu Gln Asp Ser Glu
 145 150 155 160
 Pro Ile Pro Ser Ile Gly Glu His Ala Leu Ser Glu Pro Lys Ala Ser
 165 170 175
 Asp Ser Glu Leu Ser Ser Ile Pro Phe Pro Glu Ala Val Val Pro Glu
 180 185 190
 Pro Tyr Pro Glu Pro Tyr Pro Glu Pro Trp Pro Ser Ser Pro Ser Leu
 195 200 205
 Ser Pro Ser Pro Pro Leu Pro His Val Ser Leu Pro Ser Ser Pro Leu
 210 215 220
 Leu Pro Asp Thr Glu Phe Pro His Arg Ser Arg Ala Ala Pro Ser
 225 230 235 240
 Pro Glu Ala Pro Tyr Pro Gln Gly Ala Glu Ser Pro Lys Thr Phe Val
 245 250 255
 Lys Asp Val Ser Gly Ala Pro Ala Asp Thr Trp Tyr Leu Asp Pro Leu
 260 265 270
 Glu Asp Met Ser Asp Ile Gly Ser Pro Leu Ser Glu Arg Ser His Thr
 275 280 285
 Pro Asp Leu Glu Met Glu Asp Ser Pro Pro Leu Arg Ser Val Leu Asn

11712

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      290              295              300
Glu Ser Leu Leu Ala Asp Ile Asp Ala Cys Leu Ala Arg His Met Gln
305              310              315              320
Val Glu Leu Ala Ala Ala His Asn Thr Ala Arg Asp Asp Leu Asp Ser
      325              330              335
Ile Met Ala Asp Glu Cys Gly Ser Asp Ala Asp Val Leu Leu Leu Ser
      340              345              350
Ser Glu Glu Tyr Asn Thr Gln Pro Pro Ala Val Thr Glu Ala Ser Thr
      355              360              365
Gly Ser Thr Ile Ala Ala Arg Leu Phe Leu Val Ala Met Glu Gly Ile
      370              375              380
Glu Phe Glu Glu Glu Arg Tyr Cys Arg Ser Pro Met Ser Val Cys Gly
385              390              395              400
Gln Ser Ser Ser Glu Leu Asp Asp Ser Pro Met Val Asp Glu Glu His
      405              410              415
Thr Ala Pro Ile Asp Val Ser Trp Ile Ser Ser Gly Glu Ser Ser Arg
      420              425              430
Glu Gly Ser Leu Ser Pro Leu Pro Pro Val Asp Arg Asp Glu Glu Val
      435              440              445
Pro Ile Pro Ser Ile Val Ala Ala Val Ser Ser Pro Ile Asp Asn Glu
      450              455              460
Val Ala Ala Leu Thr Arg Ser Phe Ser Gly Leu Cys Leu Ala Asp Thr
465              470              475              480
Ala Tyr Gly Gly Thr Pro Ala Ala Ser Ala Thr Leu Leu Leu Ser Tyr
      485              490              495
Met Leu Ala Ser Thr Gly Gln Val Gln Gln Asp Ala Thr Phe Asp Val
      500              505              510
Pro Thr Glu Ser Gly Thr Thr Ser Thr Phe Ser Asp Gly Arg Leu Val
      515              520              525
Ser Val Lys Val Ser Glu Leu Ile Pro Gly Pro Ser Arg Ser Arg Pro
      530              535              540
Ala Ala Ala Glu Val Asp Lys Ser Arg Gln Val Ser Arg Ser Ala Arg
545              550              555              560
Lys Asn Ser Ala Arg Trp Ala Arg Val Ala Leu Ser Pro Ile Pro Glu
      565              570              575
Glu Ser Glu Val Met Ser Ser Arg Ser Gly Leu Gly Val Gly Ala Lys
      580              585              590
Glu Ser Val Asp Pro Pro Ser Leu Ser Leu Ser Ala Thr Ser His Leu
      595              600              605
Leu Glu Leu Leu Gly Cys Arg Arg Val Glu Ala Gly Ala Ser Gly Thr
      610              615              620
Arg Leu
625

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<210> 30719
 <211> 198
 <212> PRT
 <213> A.fumigatus

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<400> 30719
Leu Gly Asn Leu Tyr Ser Gln Pro Arg Gln Cys Ile Gly Cys Val Ser
1              5              10              15
Pro Tyr Tyr Leu Ile Leu Leu Val Arg Trp Ser Ser Ser Ser Ser His
      20              25              30
Glu Ser Val Asn Ser Arg Tyr Glu Pro Tyr Ala Arg Gly Ala Lys Asp
      35              40              45

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11713

Asp Val Phe Ile Lys Asn Pro Asp Gly Thr Leu Tyr Ile Gly Ala Val
 50 55 60
 Trp Pro Gly Phe Thr Val Phe Pro Asp Trp His Asn Pro Lys Ala Phe
 65 70 75 80
 Asp Tyr Trp Ala Asn Glu Leu Val Ile Trp Ser Lys Lys Val Ala Phe
 85 90 95
 Asp Gly Ile Trp Ile Asp Met Ser Glu Val Ser Ser Phe Cys Val Gly
 100 105 110
 Ser Cys Gly Thr Gly Lys Leu His Leu Asn Pro Val His Pro Pro Phe
 115 120 125
 Gln Leu Leu Gly Glu Pro Gly Asn Val Gly Tyr Asp Tyr Pro Glu Ala
 130 135 140
 Phe Asn Val Thr Asn Ser Thr Glu Thr Gly Ser Ala Ser Ala Ala Ser
 145 150 155 160
 Gly Asn Gln Ala Ser Ala Ala Ser Ala Thr Gln Ala Ala Thr Thr Phe
 165 170 175
 Thr Ser Thr Ser Tyr Leu Pro Asp Asn Pro Thr Arg Ala Phe Ala Thr
 180 185 190
 Ser Thr Thr Leu Gln Met
 195

<210> 30720

<211> 398

<212> PRT

<213> A.fumigatus

<400> 30720

Leu Ile Met Phe Arg Arg Ala Met Thr Leu Pro Cys Thr Pro Phe Leu
 1 5 10 15
 Pro Thr Pro Pro Met Trp Asn Gly Val Gln Glu Tyr Asp Val His Ser
 20 25 30
 Leu Trp Gly His Gln Ile Leu Asn Ala Thr Tyr Tyr Gly Leu Arg Gln
 35 40 45
 Val Phe Thr Glu Lys Arg Pro Phe Ile Ile Gly Arg Ser Thr Phe Ala
 50 55 60
 Gly Ser Gly Lys Trp Ala Gly His Trp Gly Gly Asp Asn Asn Ser Lys
 65 70 75 80
 Trp Gly Ser Met Phe Leu Ser Ile Ser Gln Gly Leu Ser Phe Ser Leu
 85 90 95
 Phe Gly Ile Pro Met Phe Gly Val Asp Thr Cys Gly Phe Asn Gly Asn
 100 105 110
 Thr Asp Glu Glu Leu Cys Ser Arg Trp Met Gln Leu Ser Ala Phe Phe
 115 120 125
 Pro Phe Tyr Arg Asn His Asn Val Leu Ala Ala Ile Pro Gln Glu Pro
 130 135 140
 Tyr Arg Trp Ala Ser Val Ala Gln Ala Ser Lys Ala Ala Met Lys Ile
 145 150 155 160
 Arg Tyr Ser Leu Leu Pro Tyr Phe Tyr Thr Leu Phe His Gln Ala His
 165 170 175
 Thr Thr Gly Ser Thr Val Met Arg Ala Leu Ala Trp Glu Phe Pro Thr
 180 185 190
 Asp Pro Ser Leu Ala Ala Val Asp Thr Gln Phe Met Val Gly Pro Ser
 195 200 205
 Ile Met Val Val Pro Val Leu Glu Pro Leu Ala Asp Thr Val Lys Gly
 210 215 220
 Val Phe Pro Gly Val Gly Lys Gly Glu Val Trp Tyr Asp Trp Tyr Thr

[illegible]

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<210> 30721
<211> 85
<212> PRT
<213> A.fumigatus
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<210> 30722
<211> 135
<212> PRT
<213> A.fumigatus
```

<400> 30722															
Arg	Ser	Ala	Ile	Pro	Ser	Tyr	Leu	Thr	Ser	Thr	Leu	Phe	Ser	Thr	Arg
1				5					10					15	
Pro	Thr	Pro	Pro	Ala	Leu	Pro	Ser	Cys	Ala	Leu	Ser	Pro	Gly	Ser	Ser
			20					25					30		
Pro	Arg	Thr	Arg	Pro	Ser	Pro	Pro	Ser	Thr	Leu	Ser	Ser	Trp	Ser	Ala
		35					40					45			
Leu	Pro	Ser	Trp	Ser	Ser	Pro	Cys	Leu	Ser	Pro	Ser	Pro	Ile	Pro	Ser
	50					55					60				
Arg	Ala	Cys	Ser	Gln	Ala	Ser	Ala	Lys	Ala	Lys	Ser	Gly	Thr	Thr	Gly

[illegible]

```
<210> 30723
<211> 160
<212> PRT
<213> A.fumigatus
```

Cys	Thr	Lys	Ser	Thr	Ser	Leu	Gln	Ser	Ala	Leu	His	Ser	Asn	Ile	Tyr
1				5					10					15	
Gly	Gln	His	Pro	Phe	Tyr	Leu	Asp	Thr	Arg	Tyr	Tyr	Thr	Lys	Gly	Ala
			20					25					30		
Asn	Gly	Ser	Tyr	Ser	Leu	Val	Asn	Ala	Asp	Glu	Ala	Asp	Leu	Ser	Glu
		35					40					45			
Asp	His	Glu	Ser	Phe	Ser	His	Gly	Val	Phe	Leu	Arg	Asn	Ala	His	Gly
	50					55					60				
Gln	Glu	Val	Leu	Leu	Gln	Pro	Arg	Asn	Ile	Thr	Trp	Arg	Thr	Ile	Gly
65					70					75				80	
Gly	Ser	Ile	Asp	Leu	Thr	Phe	Tyr	Ser	Gly	Pro	Thr	Gln	Ala	Asp	Val
			85						90					95	
Thr	Lys	Ser	Tyr	Gln	Leu	Ser	Thr	Ile	Gly	Leu	Pro	Ala	Met	Gln	Gln
			100					105					110		
Tyr	Ser	Ala	Leu	Gly	Tyr	His	Gln	Cys	Arg	Trp	Gly	Tyr	Gln	Asn	Trp
		115					120					125			
Ser	Gln	Leu	Glu	Glu	Val	Val	Asn	Asn	Phe	Glu	Arg	Phe	Glu	Ile	Pro
	130					135					140				
Leu	Glu	Tyr	Ile	Trp	Ser	Val	Gly	Phe	Leu	Ser	Phe	Tyr	Ile	Leu	Ser
145					150					155					160

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<210> 30724
<211> 117
<212> PRT
<213> A.fumigatus
```

Thr	Trp	Gln	Cys	Arg	Leu	Arg	Leu	Pro	Arg	Gly	Leu	Gln	Arg	Asp	Glu
1				5					10					15	
Leu	Tyr	Arg	Asn	Gly	Leu	Cys	Leu	Arg	Arg	Leu	Trp	Gln	Ser	Gly	Phe
			20					25					30		
Gly	Cys	Phe	Cys	Tyr	Pro	Ser	Arg	His	Asp	Val	His	Ile	Tyr	Ile	Val
		35					40					45			
Ser	Ala	Gly	Gln	Pro	His	Pro	Gly	Val	Arg	Asp	Val	Asn	Tyr	Pro	Pro
	50					55					60				
Asp	Val	Ile	Asn	His	Val	Gln	Glu	Gly	His	Asp	Leu	Ala	Val	His	Ala
65				70						75					80
Ile	Ser	Pro	Asn	Ser	Thr	His	Val	Glu	Arg	Arg	Pro	Gly	Ile	Arg	Cys
			85						90					95	
Ser	Gln	Ser	Val	Gly	Pro	Pro	Asn	Pro	Gln	Cys	Tyr	Leu	Leu	Arg	Thr

11716

100
Ala Pro Gly Leu His
115

105

110

<210> 30725
<211> 67
<212> PRT
<213> A.fumigatus

<400> 30725
Pro Leu Ser Cys His Arg Cys His Ala His Lys Ile Lys Cys Ser Gly
1 5 10 15
Glu Gln Pro Cys Ala Lys Cys Arg Met Val Gly Lys Ser Asp Glu Cys
20 25 30
Thr Tyr Thr Arg Arg Asp Arg Gln Val Lys Val Ser Glu Arg Tyr Ser
35 40 45
Gly Asp Ile Pro Tyr Leu Ile Thr Val Ser Lys Thr Leu Glu Arg Thr
50 55 60
Ala Cys Cys
65

<210> 30726
<211> 61
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (42), (58), (59)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30726
Gln Glu Ser Asn Gln Pro Cys Ser Thr Ser Tyr Thr Leu Leu Leu Val
1 5 10 15
Asp Pro Asp Ala Pro Thr Pro Asp Asp Pro Lys Tyr Ala Phe Trp Arg
20 25 30
His Trp Val Ile Ser Gly Leu Lys Ala Xaa Glu Gly Asp Ser Gly Thr
35 40 45
Ala Leu Thr Glu Tyr Leu Gly Pro Gly Xaa Xaa Glu Lys
50 55 60

<210> 30727
<211> 179
<212> PRT
<213> A.fumigatus

<400> 30727
Arg Leu Leu Ser Tyr Glu Glu Pro Lys Tyr Thr Val Asn Gly Gln Thr
1 5 10 15
Lys Ser Ser Leu Asp Thr Pro His Ile Val Tyr His Gln Ile Ala Gln
20 25 30
Asp Gly Ala Ser Ser Ile Phe Pro Pro Val Thr Ser Ser Ile Ser Asn
35 40 45
Pro Gln Ala Phe Asn Arg Leu Tyr Ile Ile Val Thr Leu Pro Phe Thr
50 55 60
Pro Cys Pro Thr Glu Ser Thr Leu Ser Leu Thr Lys Met Ser Leu Glu

11717

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65              70              75              80
Ser His Thr Gln Gln Leu Thr Gln Ser Leu Ala Gln Ala Asn Leu Thr
              85              90              95
Pro Gly Leu Leu Pro Phe Leu Pro Pro Asp Phe Asn Pro Thr Thr Gln
              100              105              110
Leu His Val Ser Phe Asn Asp Lys Pro Val Ser Leu Gly Asn Leu Phe
              115              120              125
Arg Ala Ser Glu Cys Lys Thr Ala Pro Ser Val Ser Phe Pro Lys Glu
              130              135              140
Val Gly Arg Thr Leu Pro Ile Ala Leu Ser Pro Ala Pro Arg Ser Leu
145              150              155              160
Ile Gly Ile Thr Gly Glu Gln Ser Thr Met Leu Asp Lys Leu Tyr Pro
              165              170              175
Pro Pro Ser

```

<210> 30728

<211> 114

<212> PRT

<213> A.fumigatus

<400> 30728

```

His Leu Gln Pro Tyr Tyr Tyr Gln Ile Tyr Tyr Lys Thr Thr Asn Gly
1              5              10              15
Ser Thr Thr Lys Gln Ile Ile Met Pro Asn Asn Asn Phe Ser Ser Ser
              20              25              30
Gln Asp Ala Gly Val Thr Gly Ala Ala Lys Phe Val Thr Ser Thr Val
              35              40              45
Gly Asn Thr Val Gly Gly Val Ser Arg Thr Val Gly Gly Val Thr Gly
50              55              60
Ala Ala Ala Arg Gly Val Gly Gly Thr Ile Thr Ser Ala Thr Gly Ser
65              70              75              80
Ala Gly Lys Pro Val Gly Asp Ala Leu Gly Ser Val Gly Thr Gly Val
              85              90              95
Glu Asp Ala Ala Asn Arg Val Ala Lys Gly Val Glu Asp Ala Gly Gln
              100              105              110
Trp Arg

```

<210> 30729

<211> 466

<212> PRT

<213> A.fumigatus

<400> 30729

```

Gly Asn Cys Lys Phe Gly Ala Lys Cys Ala Leu Ala His Ile Leu Pro
1              5              10              15
Asp Gly Arg Arg Val Asn Arg Pro Thr Pro Gly Met Gly Met Gly Gly
20              25              30
Gly His Leu Asn Leu Gly Gly Arg Val Asn Pro Gln Ala Tyr Val Asn
35              40              45
Gln Asp Ser Ala Leu Thr Asn Ser Val Leu Ser Gln Gln Arg Leu Gly
50              55              60
Ile His Asp Pro Arg Tyr Ala Ser Gln Leu Pro Pro Gln Glu Asp Phe
65              70              75              80
Ser Thr Leu Gln Gln Gln Gln Gln Gln Gln Pro His Pro Pro Pro Phe

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<210> 30730
<211> 156
<212> PRT
<213> A.fumigatus

<400> 30730
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11719

Gly Glu Ala Gln Gly Ala Met Met Val Phe Phe Cys Leu Pro Leu Trp
 1 5 10 15
 Leu Met Leu Val Leu Met Arg Glu Thr Ser Glu Glu Gln Pro Pro His
 20 25 30
 Asp Ala Asn Asn Gly Trp Glu Glu Ile Arg Leu Ser Ala Arg Ser Phe
 35 40 45
 Tyr Leu Pro Leu Arg Leu Leu Phe Thr Asp Tyr Val Ile Leu Ser Leu
 50 55 60
 Thr Val Tyr Thr Ser Phe Ser Tyr Ala Thr Val Phe Ser Tyr Phe Ser
 65 70 75 80
 Ser Leu Gln His Val Leu Met Leu Asp Tyr Gly Phe Gly Thr Arg Gln
 85 90 95
 Ala Ser Leu Gly Leu Leu Ser Leu Ile Val Gly Asn Phe Cys Ala Ile
 100 105 110
 Ile Leu Trp Val Val Leu Glu Lys Ala Val Thr Ser Ser Glu Glu Lys
 115 120 125
 Leu Pro Gly Lys Val Phe Gln Pro Glu Lys Arg Leu Tyr Ala Gly Val
 130 135 140
 Ile Gly Gly Leu Leu Met Cys Leu Ala Glu Ile Trp
 145 150 155

<210> 30731
 <211> 131
 <212> PRT
 <213> A.fumigatus

<400> 30731
 Leu Ser Thr Ile Ala Tyr Ile Ile Asp Ile Tyr Pro Ala Glu Val Val
 1 5 10 15
 Ala Ser Gly Lys Gln Ser Leu Arg Ser Ser Ile Gln Lys Ser Tyr Lys
 20 25 30
 Lys Trp Leu Tyr Leu Ala Ile Ala Asn Gly Val Ser Arg Tyr Thr
 35 40 45
 Leu Gly Ala Val Phe Pro Leu Phe Thr Leu Gln Met Tyr Glu Lys Leu
 50 55 60
 Gly Thr Thr Trp Ala Ser Cys Leu Phe Ala Ile Ile Ser Cys Val Leu
 65 70 75 80
 Ile Phe Ile Pro Leu Phe Val Cys Lys Tyr Gly Val Arg Leu Arg Thr
 85 90 95
 Thr Met Thr Val Gly Ala Thr His Gly Asn Ser Ile Asn Arg Asp Ala
 100 105 110
 Lys Asn Val Asp Thr Thr Ile Thr Glu Leu Cys Tyr Thr Glu Leu Ser
 115 120 125
 Val Ala Ile
 130

<210> 30732
 <211> 78
 <212> PRT
 <213> A.fumigatus

<400> 30732
 Pro Gln Ile Ile Cys Leu Cys Ser Leu Asn Pro Asn His Gly Pro Glu
 1 5 10 15
 Ile Tyr Gln Ile Val His Thr Gln Lys Pro Lys Pro Leu Arg Pro Leu
 20 25 30

```
<210> 30733
<211> 69
<212> PRT
<213> A.fumigatus
```

```
<210> 30734
<211> 516
<212> PRT
<213> A.fumigatus
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<400>	30734																
Ser	Leu	Val	Asp	Ala	Val	Ala	Gly	Leu	Val	Glu	Lys	Asp	Ile	Asp	Phe		
1				5					10					15			
Val	Phe	Asp	Ala	Leu	Asp	Gly	Lys	Thr	Thr	Glu	Pro	Lys	Asp	Arg	Glu		
			20					25					30				
Glu	Glu	Lys	Ala	Asn	Met	Pro	Asn	Gly	Lys	Ala	Val	Asp	Lys	Lys	His		
		35					40					45					
Asp	Ile	Asn	Tyr	Arg	Asp	Glu	Pro	Val	Ala	Phe	Phe	Phe	Val	Leu	Phe		
	50					55					60						
Gly	Leu	Ala	Phe	Glu	Ala	Leu	Val	Asp	Gln	Ser	Thr	Thr	Pro	Ser	Gln		
65				70					75						80		
Arg	Leu	Asp	Ile	Leu	Gln	Ala	Leu	Lys	Arg	Ile	Leu	Arg	Pro	Val	Ile		
				85					90					95			
Ser	Gly	Asn	Ala	Ile	Tyr	Gln	Asp	Ala	Ile	Phe	Ser	Glu	Thr	Met	Asp		
			100					105					110				
Thr	Phe	Asp	Arg	Leu	Ala	Leu	Thr	Glu	Gly	Thr	Pro	Ile	Gln	Thr	Val		
		115					120					125					
Ile	Val	Glu	Ile	Ala	Arg	Asn	Leu	Ser	Leu	Asp	His	Pro	Ser	Ala	Lys		
	130					135					140						
Ala	Gly	Asp	Ala	Arg	Ser	Asp	His	Leu	Ser	Asp	Asp	Ile	Glu	Gln	Leu		
145				150						155				160			
Phe	Glu	Leu	Thr	Arg	Ser	Ile	Ile	Leu	Val	Leu	Ala	Gly	Leu	Leu	Pro		
			165						170					175			
Asn	Leu	Gly	Glu	Asn	Thr	Ser	Val	Ala	Arg	Phe	Asn	Val	Thr	Ser	Asp		
			180					185					190				
Asp	Ser	Leu	Ser	Leu	Ile	Arg	Leu	Ala	Leu	Ser	Ser	Leu	Val	Gln	Val		
		195					200					205					

11721

```

Ala Ser Ile Phe Pro Ser Ile Ile Arg Asn Asp Leu Asn Ala Cys Ile
  210                      215                      220
Leu His Ile Phe Thr Thr Ile Leu Ala Thr Gly Leu Cys Gln Ala Glu
225                      230                      235                      240
Val Val Pro Gln Ala Leu Pro Thr Phe Lys His Phe Ile His Gly Ile
                      245                      250                      255
Ile His Pro Lys Ala Ser Val Ser Asp Glu Ala Gln Asp Leu Ala Ile
                      260                      265                      270
Val Ser His Gln Leu Arg Gly Cys Leu Thr Arg Phe Leu Thr Thr Leu
                      275                      280                      285
Thr Ile Ala Gln Arg Arg Glu Ser Glu Ser Ser Leu Pro Cys Ala Lys
                      290                      295                      300
Asn Thr Leu Leu Ala Ile Thr Ile Leu Leu Thr Thr Gly Gly His Ile
305                      310                      315                      320
Leu Pro Pro Gln Asp Pro Ala Ile Pro Arg Val Leu Asn Glu Leu Leu
                      325                      330                      335
Asp Cys Leu Gln Asp Val Gly Leu Ala Asn Val Ala Ala Gly Cys Ile
                      340                      345                      350
Arg Ser Ile Leu Leu Thr Ser Thr Ser Arg Ser Pro Thr Asn Asp Leu
                      355                      360                      365
Ile Ala Lys Tyr Leu Leu Pro Arg Leu Ile Ala Phe Leu Val Gly Cys
                      370                      375                      380
Pro Leu Asp Lys Gly Glu Ile Pro Ser Asp Pro Glu Asn Ser Arg Thr
385                      390                      395                      400
Val Ile Ala Arg Thr Leu Val Ser Tyr Ala Thr Ser Ala Thr Phe Ala
                      405                      410                      415
Ala Ser Glu Leu Pro Thr Ala Phe Ser Ile Val Met Ser Ala Leu Leu
                      420                      425                      430
Ala Arg Ala Lys Arg Glu Ser Tyr Pro Val Tyr Arg Glu Thr Ala Ala
                      435                      440                      445
His Leu Leu Glu Leu Ala Arg Ala Asp Gln Ala Thr Phe Arg Ala Leu
                      450                      455                      460
Val Ala Ser Met Lys Pro Asp Gln Lys Gly Leu Leu Glu Glu Ile Leu
465                      470                      475                      480
Arg Ser Ser Asp Pro Gly Thr Gly Ala Gly Ala Gly Arg Ala Glu Thr
                      485                      490                      495
Asn Gly Ala Gln Ser Glu Ala Ser Gln Ser Met Pro Ser Ile Ala Leu
                      500                      505                      510
Arg Leu Asp Phe
                      515

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<210> 30735

<211> 113

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (13), (37), (53)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30735

```

Thr Leu Tyr Gln Ser Phe Asn Met Lys Asn Val Ser Xaa Ala Thr Val
1                      5                      10                      15
Leu Leu Ser Leu Ser Gly Ser Leu Thr Ala Ala Trp Asn Val Thr Ala
                      20                      25                      30

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11722

Tyr Gly Asn Ala Xaa Cys Thr Gly Tyr Leu Thr Ser Ile Ala Gly Glu
 35 40 45
 Gln Gly Trp Gly Xaa Tyr Trp Leu Ser Gly Val Thr Lys Pro Ile Gln
 50 55 60
 Ala Met Ser Val Glu Asp Leu Pro Glu Gly Trp Arg Phe Ile Ala Ser
 65 70 75 80
 Ser Gly Thr Ala Cys Asp Ala Phe His Gln Ala Gly Gly Asn Gly Cys
 85 90 95
 Tyr Thr Gln Ser Gln Gly Phe Gln Ser Phe Gln Ile Ile Gly Ser Ser
 100 105 110
 Ser

<210> 30736

<211> 546

<212> PRT

<213> A.fumigatus

<400> 30736

Trp Trp Thr Val Tyr Lys Asn Ala Leu Leu Ala Ser Asn Ser Leu Leu
 1 5 10 15
 Ser Leu Asp Gln His Phe Thr Val Ser Pro Thr Asn Thr Val Asp Phe
 20 25 30
 His Thr Asn Leu Thr Arg Gln Ala Pro Ser Lys Thr Phe Glu Asn His
 35 40 45
 Lys Met Asp Met Gln Glu Gly Ser Val Ala Ser Ala Asn Asn Pro Glu
 50 55 60
 Asn Ala Ala Asp Asn Phe Ser Pro Leu Ser Met Leu Pro Pro Glu Cys
 65 70 75 80
 Leu Val Asn Ile Leu Asp His Leu Asp Thr Ala Asp Asn Leu Ala Val
 85 90 95
 Ser Asn Val Ser Lys Asp Leu Arg Lys Trp Ala Lys Pro Leu Val Phe
 100 105 110
 Arg Asp Ile Leu Trp Ala Tyr Thr Ser Thr Pro Leu Arg Arg Val Leu
 115 120 125
 Leu Leu Leu Glu Gln Ile Phe Leu Asn Pro Gln Cys Ala Gly Tyr Val
 130 135 140
 Lys His Leu Gln Leu Thr Tyr Thr Gly Pro Ala Trp Ile Met Pro Asp
 145 150 155 160
 Pro Asp Ile Asp Phe Arg Gln His Ala Thr Arg Phe Ala Phe Val Ser
 165 170 175
 Arg Lys Ala Ile Gln Phe Val Ser Gln Ile Gly Leu Phe Asp Thr Val
 180 185 190
 Gly Tyr Ala Ala Leu Leu Tyr Gln Gly Asp Tyr Tyr Ala Tyr Ala Ala
 195 200 205
 Val Leu Met Phe Gln Leu His Asn Leu Arg Val Leu Glu Leu Asp Tyr
 210 215 220
 Thr Tyr Thr Leu Val Gly Tyr Pro Gly Leu Phe Leu Gln Ile Ala
 225 230 235 240
 Leu Arg Ser Ser Phe Glu Gly Ile Ser Arg Phe Asn Arg Leu Glu Lys
 245 250 255
 Leu Lys Tyr Gly Gly Asp Val Pro Gln Ala Glu Lys Leu Asp Asp Glu
 260 265 270
 Ala Glu Glu Ala Val Ala Ala Ile Pro Val Leu Glu Asn Thr Asp Gln
 275 280 285
 Phe Ala Pro Trp Phe Ala Leu Pro Lys Leu Lys His Val Glu Met Trp

290 295 300
 Leu Arg Ser Thr Phe Glu Leu Asp Lys Tyr Lys Asp Gln Leu Ala Gly
 305 310 315 320
 Arg Glu Leu Glu Ser Leu Val Leu Ala Arg Ser Ser Val Asp Ala Ala
 325 330 335
 Asp Ile Lys Glu Ile Leu Ser Ala Cys Pro Lys Leu Arg Lys Leu His
 340 345 350
 Leu Gly Val Ser Tyr Asn Leu Val Ser Lys Leu Ala Leu Leu Asp Ser
 355 360 365
 Lys Glu Leu Ala Asp Ala Leu Lys Pro Leu Lys Asp Arg Leu Glu Thr
 370 375 380
 Leu Ser Ile Gly Leu Asp Thr Asp Pro Ser Phe Val Gly Gly Phe Ser
 385 390 395 400
 Trp Glu Gln Asp Asn Thr Phe Gly Ser Thr Leu Thr Asp Pro Phe Leu
 405 410 415
 Met Leu Phe Ser Glu Phe Thr Lys Leu Gln Glu Leu Glu Val Pro Met
 420 425 430
 Pro Leu Leu Glu Gly Trp Phe Ser Asn Glu Asn Trp Ala Asp Phe His
 435 440 445
 Lys Tyr Leu Pro Pro Lys Leu Arg His Leu Val Met Arg Asn Asp Leu
 450 455 460
 Ser Gly Phe Asp Asn Tyr Thr Trp Asp Pro Tyr Gly Met Val Phe Ala
 465 470 475 480
 Val Asp Gln Arg Ile Val Glu Thr Lys Lys Arg Ile Pro Ser Leu Glu
 485 490 495
 Arg Val Thr Leu Arg Val Trp Ala Thr Asn Pro Arg Arg Pro Asn Glu
 500 505 510
 Asp Phe Leu Ala Glu Ala Ala Asp Met Ala Gln Ser Val Gly Val Gln
 515 520 525
 Cys Asp Leu Val Val Asp Glu Leu Gly Ser Gly Leu Trp Val Ala Arg
 530 535 540
 Ala Ser
 545

<210> 30737
 <211> 69
 <212> PRT
 <213> A.fumigatus

<400> 30737
 Leu Ile Gly Ala Ala Leu Pro Pro Arg Gly Glu Asp Pro Leu Ala Glu
 1 5 10 15
 Phe Asn Gln Ser Pro Glu Glu Phe Phe Asn Pro Cys Gln Gln Asn Trp
 20 25 30
 Pro Val Ala Phe Val Phe Lys Asp Asp Leu Leu Leu His Gln Pro Lys
 35 40 45
 Val Ala Asp Thr Ser Gly Phe Phe Ser Thr Tyr His Pro Gly Ser Ser
 50 55 60
 Ile Val Ser Ala Thr
 65

<210> 30738
 <211> 529
 <212> PRT
 <213> A.fumigatus

<400> 30738

Ser Pro Pro Arg Gly Glu Asp Lys Asn Tyr Ile Ile Leu Lys Lys Asp
 1 5 10 15
 Lys Leu Tyr Val Lys His Asn Val Leu Ser Glu Asp Ile Pro Ile Val
 20 25 30
 Ile Leu Leu Arg Ala Met Gly Ile His Thr Glu Gln Glu Met Leu Leu
 35 40 45
 Leu Val Ala Gly Val Asp Ser Leu Tyr Gln Asp Asp Phe Ala Ile Asn
 50 55 60
 Phe Glu Glu Ser Ile Lys Leu Gly Ile Tyr Thr Gln Gln Gln Ala Leu
 65 70 75 80
 Asp Trp Ile Gly Ala Arg Ile Lys Ile Asn Arg Lys Gln Ser Ser Tyr
 85 90 95
 Arg Arg Thr His Ile Gln Glu Ala Val Glu Ala Ile Ala Ser Val Ile
 100 105 110
 Ile Ser His Ile Glu Val Lys Asn Met Asn Phe Arg Pro Lys Ala Val
 115 120 125
 Tyr Val Ala His Met Ala Arg Arg Val Leu Met Ala Lys Asn Asp Pro
 130 135 140
 Ser Leu Val Asp Asp Arg Asp Tyr Leu Gly Asn Lys Arg Leu Glu Leu
 145 150 155 160
 Ala Gly Gln Leu Leu Ala Leu Leu Phe Glu Asp Leu Phe Lys Lys Phe
 165 170 175
 Cys Phe Asp Ile Lys Met Asn Ile Asp Lys Val Leu Asn Lys Arg Asn
 180 185 190
 Arg Ala Glu Gln Phe Asp Ala Trp Thr Val Met Ser Met His Ser Asn
 195 200 205
 His Ile Thr Gln Gly Met Asn Arg Ala Ile Ser Thr Gly Asn Trp Ser
 210 215 220
 Leu Lys Arg Phe Arg Met Glu Arg Ala Gly Val Thr His Val Leu Ser
 225 230 235 240
 Arg Leu Ser Tyr Ile Ala Ala Leu Gly Met Met Thr Arg Ile Ser Ser
 245 250 255
 Gln Phe Glu Lys Thr Arg Lys Val Ser Gly Pro Arg Ala Leu Gln Pro
 260 265 270
 Ser Gln Phe Gly Met Leu Cys Pro Ala Asp Thr Pro Glu Gly Glu Ala
 275 280 285
 Cys Gly Leu Val Lys Asn Leu Ala Leu Met Thr His Ile Thr Thr Asn
 290 295 300
 Asp Glu Glu Gly Pro Ile Lys Asn Leu Val Phe Met Leu Gly Ala Glu
 305 310 315 320
 Asp Ile Met Ala Leu Gly Gly Lys Gln Leu Tyr Ile Pro Gly Ser Tyr
 325 330 335
 Thr Ile Ser Ile Asn Gly Thr Pro Ile Ala Leu Thr Arg Arg Pro Lys
 340 345 350
 Tyr Phe Leu Asn Ala Phe Arg Arg Leu Arg Arg Met Gly Arg Ile Ser
 355 360 365
 Glu Phe Val Ser Ile Tyr Ile Asn His His Gln Cys Ala Val His Ile
 370 375 380
 Ala Thr Asp Asp Gly Arg Ile Cys Arg Pro Leu Ile Val Val Glu Asn
 385 390 395 400
 Gly Arg Ser Leu Val Lys Asp His His Leu Glu Lys Leu Arg Asp Gly
 405 410 415
 Thr Met Gln Phe Asp Asp Phe Leu Ala Gln Gly Leu Val Glu Tyr Leu
 420 425 430
 Asp Val Asn Glu Glu Asn Asp Ser Leu Ile Ala Leu Tyr Glu Lys Asp

435 440 445
 Ile Thr Asp Thr Thr Thr His Leu Glu Ile Glu Pro Phe Thr Val Leu
 450 455 460
 Gly Ala Val Ala Gly Leu Ile Pro Tyr Pro His His Asn Gln Ser Pro
 465 470 475 480
 Arg Asn Thr Tyr Gln Cys Ala Met Gly Lys Gln Ala Ile Gly Ala Ile
 485 490 495
 Ala Ser Asn Gln Phe Leu Arg Ile Asp Ser Ile Leu Tyr Leu Met Val
 500 505 510
 Tyr Pro Gln Lys Pro Met Val Lys Ser Arg Thr Ile Glu Leu Val Lys
 515 520 525
 Tyr

<210> 30739
 <211> 81
 <212> PRT
 <213> A.fumigatus

<400> 30739
 Asp Arg Thr Asp Leu Ala Gln Glu Leu Ala Asp Lys Leu Gly Val Lys
 1 5 10 15
 Leu Ser Gln Leu Ala Leu Ala Trp Cys Leu Lys Asn Glu Asn Val Ser
 20 25 30
 Ser Val Ile Thr Gly Ala Ser Arg Pro Glu Gln Ile Val Asp Asn Val
 35 40 45
 Glu Ser Leu Lys Leu Leu Pro Lys Leu Thr Pro Glu Val Met Ser Gln
 50 55 60
 Ile Asp Glu Tyr Leu Gly Asn Lys Pro Ala Gln Asp Pro Ala Arg Gln
 65 70 75 80
 Asp

<210> 30740
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 30740
 Leu Arg Arg Gln Leu Phe Arg His Gly Arg Lys Val Cys Leu Ser Arg
 1 5 10 15
 Leu Cys Asn Asp Pro Ser Ser Arg Ser Ser Tyr Ala Asn Gly Gln Ser
 20 25 30
 Glu Val Val Met Gly Gln Ala Ile Lys Lys Phe Gly Trp Lys Arg Ser
 35 40 45
 Asp Leu Val Ile Ser Thr Lys Val Arg Pro Gly Pro Ile Val Cys Asn
 50 55 60
 Ser Gly
 65

<210> 30741
 <211> 206
 <212> PRT
 <213> A.fumigatus

<400> 30741

Leu Asn Trp Gly Met Ala Asn Gly Glu Ile Leu Ile Asn Asn His Gly
 1 5 10 15
 Leu Ser Arg Lys His Ile Ile Glu Gly Thr Arg Ala Ser Leu Glu Arg
 20 25 30
 Leu Gln Leu Glu Tyr Val Asp Ile Ile Tyr Ala His Arg Pro Asp Arg
 35 40 45
 Leu Thr Pro Met Glu Glu Thr Val Arg Ala Phe Asn His Val Ile Glu
 50 55 60
 Lys Gly Trp Ala Phe Tyr Trp Gly Thr Ser Glu Trp Ser Ala Asp Glu
 65 70 75 80
 Ile Ala Glu Ala Cys Gly Ile Ala Arg Ser Leu Gly Leu Ile Gly Pro
 85 90 95
 Ile Val Glu Gln Pro Leu Tyr Asn Met Leu Asp Arg Arg Lys Val Glu
 100 105 110
 Gly Glu Phe Gln Arg Leu Tyr Ser Arg Cys Gly Ile Gly Leu Thr Thr
 115 120 125
 Phe Ser Pro Leu Lys Met Gly Leu Leu Ser Gly Lys Tyr Asn Asp Ala
 130 135 140
 Thr Thr Gln Pro Pro Pro Gly Ser Arg Phe Ala Glu Ser Asn Asp Arg
 145 150 155 160
 Phe Ala Asn Lys Val Arg Gln Asn Tyr Gly Asn Asp Glu Trp Ala Ala
 165 170 175
 Thr Ile Lys Lys Ile Val Gly Leu Lys Ala Gly Ile His Ser Pro Leu
 180 185 190
 Pro Arg Thr Ala Leu Thr Trp His Arg Ser Trp Arg Ile Asn
 195 200 205

<210> 30742

<211> 133

<212> PRT

<213> A.fumigatus

<400> 30742

Asp Tyr Ile Glu Val Thr Phe Asn Cys Met Lys Gln Ala Tyr Asp Cys
 1 5 10 15
 Gly Val Asn Phe Phe Asp Thr Ala Glu Arg Tyr Ala Ser His Ala Cys
 20 25 30
 Ala Met Ile Gln Ala His Glu Ala Ala Met Gln Met Asp Asn Pro Lys
 35 40 45
 Ser Ser Trp Asp Lys Pro Ser Arg Asn Ser Gly Gly Ser Glu Ala Thr
 50 55 60
 Trp Ser Ser Ala Gln Arg Phe Val Leu Gly Gln Leu Cys Val Thr Gln
 65 70 75 80
 Ala Asp Arg Cys Ser Ser Thr Gly Ala Trp Gln Met Val Lys Ser Ser
 85 90 95
 Ser Thr Thr Met Val Tyr His Val Asn Thr Ser Ser Lys Ala Pro Gly
 100 105 110
 Arg Arg Trp Asn Ala Cys Ser Trp Asn Thr Ser Thr Ser Thr Pro
 115 120 125
 Thr Asp Arg Thr Ala
 130

<210> 30743

<211> 202

<212> PRT

<213> A.fumigatus

<400> 30743

Gly Glu Thr Val Ile Asp Leu Gly Ser Gly Gly Gly Ile Asp Val Ile
 1 5 10 15
 Leu Ala Ala Arg Lys Val Gly Pro Lys Gly Lys Ala Ile Gly Val Asp
 20 25 30
 Met Thr Lys Val Ser Ile His Val Tyr Arg Ala Asp Tyr Thr Leu Pro
 35 40 45
 Ala Ser Asp Leu Leu Pro Ile Tyr Gln Lys Met Leu Ala Leu Ala His
 50 55 60
 Glu Asn Val Glu Lys Ala Gly Ile Thr Asn Ala Ser Phe Val Glu Gly
 65 70 75 80
 Phe Ile Thr Ala Ile Pro Leu Glu Asp Ser Thr Ala Asp Cys Ile Ile
 85 90 95
 Ser Asn Cys Val Val Asn Leu Val Pro Lys Glu Gln Lys Ser Leu Val
 100 105 110
 Phe His Glu Met Phe Arg Leu Leu Lys Pro Gly Gly Arg Val Ala Ile
 115 120 125
 Ser Asp Ile Leu Ala Arg Arg Glu Leu Pro Pro Glu Ile Ala Asn Asp
 130 135 140
 Leu Ala Leu Tyr Val Gly Cys Ile Ala Gly Ala Ser Gln Ala Gln Gln
 145 150 155 160
 Tyr His Ala Tyr Leu Lys Asp Ala Gly Phe Gly Gly Thr Ser Thr Asn
 165 170 175
 Pro Leu Ala Thr Asp Arg Lys Met Leu Ile Leu Cys Ala Glu Tyr Ser
 180 185 190
 Thr Arg Ala Trp Lys Val Pro Arg Met Arg
 195 200

<210> 30744

<211> 376

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (20)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30744

Asp Ile Arg Gln Phe Pro Ser Leu Glu Ala Lys Leu Pro Lys Glu Gly
 1 5 10 15
 Glu Lys Ala Xaa Ala Gly Gly Thr Thr Leu Ile His Asp Ser Val Thr
 20 25 30
 Pro Asp Asp Ile Ala Asn Val Val Ser Arg Thr Thr Gly Ile Pro Val
 35 40 45
 Asn Lys Leu Met Gly Gly Asp Val Glu Lys Leu Ile His Met Glu Asp
 50 55 60
 Thr Leu Arg Gln Ser Val Arg Gly Gln Asp Glu Ala Leu Thr Ala Val
 65 70 75 80
 Ala Asn Ala Val Arg Met Gln Arg Ala Gly Leu Ser Gly Gln Asn Arg
 85 90 95
 Pro Leu Ala Ser Phe Met Phe Leu Gly Pro Thr Gly Val Gly Lys Thr
 100 105 110
 Glu Leu Cys Lys Arg Met Ala Glu Phe Leu Phe Ser Thr Glu Thr Ala
 115 120 125

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Val Leu Arg Phe Asp Met Ser Glu Phe Gln Glu Lys His Thr Ile Ser
130                      135                      140
Arg Leu Ile Gly Ser Pro Ala Gly Tyr Val Gly Tyr Asp Asp Ala Gly
145                      150                      155                      160
Gln Leu Thr Glu Ala Val Arg Arg Lys Pro Tyr Ala Val Leu Leu Phe
165                      170                      175
Asp Glu Phe Glu Lys Ala His Arg Asp Ile Ser Ala Leu Leu Leu Gln
180                      185                      190
Val Leu Asp Glu Gly Phe Leu Thr Asp Ser Gln Gly His Lys Val Asp
195                      200                      205
Phe Arg Asn Thr Leu Ile Val Leu Thr Ser Asn Leu Gly Ala Asp Ile
210                      215                      220
Leu Val Gly Ala Asn Pro Leu His Ser Phe Lys Asp Tyr Gly Asn Ala
225                      230                      235                      240
Glu Leu Ser Pro Asp Ile Lys Gln Ala Val Met Glu Val Val Gln Ser
245                      250                      255
Ala Tyr Pro Pro Glu Phe Leu Asn Arg Ile Asp Glu Phe Ile Ile Phe
260                      265                      270
Arg Arg Leu Ser Arg Glu Ala Leu Arg Asp Ile Val Asp Ile Arg Ile
275                      280                      285
Lys Glu Leu Gln Ala Arg Leu Asp Asp Arg Arg Ile Val Leu Gln Val
290                      295                      300
Asp Asn Glu Ile Lys Asp Trp Leu Cys Glu Lys Gly Tyr Asp Pro Lys
305                      310                      315                      320
Tyr Gly Ala Arg Pro Leu Asn Arg Leu Ile Ala Lys Glu Ile Gly Asn
325                      330                      335
Arg Leu Ala Asp Lys Ile Ile Arg Gly Glu Leu Thr Ser Gly Gln Thr
340                      345                      350
Ala Val Ile Ser Phe Asn Glu Asp Lys Thr Ala Leu Glu Val Thr Ala
355                      360                      365
Asp Gly Ala Lys Glu Glu Lys Ala
370                      375

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<210> 30745

<211> 91

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (85)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30745

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Leu Leu Arg Thr Pro Lys Asn Phe Arg Lys Ala Leu Lys Ala Asn Gln
1                      5                      10                      15
Arg Gly Phe Ala Lys Ile Pro Arg Val Trp Lys Lys Lys Arg Pro Glu
20                      25                      30
Ile Glu Ser Leu Lys Arg Thr Lys Lys Glu Leu Glu Arg Ala Arg Phe
35                      40                      45
Glu Leu Asp Arg Ala Ser Glu Gly Gly Asn Phe Cys Glu Ser Trp Arg
50                      55                      60
Ile Glu Ile Phe Asp Asn Phe Gln Ala Leu Arg Arg Asn Cys Pro Lys
65                      70                      75                      80
Lys Ala Arg Arg Xaa Pro Arg Glu Val Arg His
85                      90

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<210> 30746
 <211> 62
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (62)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30746
 His Leu Leu Phe Cys Ile Leu Glu Ser Asn Leu Lys Lys Asn Lys Leu
 1 5 10 15
 His Glu Gln Met Asn Cys Leu Val Val Arg Asn Cys Asn Asn Gln Asp
 20 25 30
 His Met Asp Pro Gly Ser Leu Arg Leu Lys Thr Asn Gln Gln Arg Arg
 35 40 45
 Gln Val Asn Ala Ser Trp Ile Asn Ile Ile Ile Ser Ile Xaa
 50 55 60

<210> 30747
 <211> 157
 <212> PRT
 <213> A.fumigatus

<400> 30747
 Asp Arg Val Gly Val Lys Leu Ser Pro Tyr Ser Gln Tyr Leu Gly Met
 1 5 10 15
 Gly Thr Met Asp Glu Leu Val Pro Gln Phe Glu Tyr Leu Ile Ala Gln
 20 25 30
 Met Arg Arg Leu Asp Val Ala Tyr Leu His Leu Ala Asn Ser Arg Trp
 35 40 45
 Leu Asp Glu Glu Lys Pro His Pro Asp Pro Asn His Glu Val Phe Val
 50 55 60
 Arg Val Trp Gly Gln Ser Ser Pro Ile Leu Leu Ala Gly Gly Tyr Asp
 65 70 75 80
 Ala Ala Ser Ala Glu Lys Val Thr Glu Gln Met Ala Ala Ala Thr Tyr
 85 90 95
 Thr Asn Val Ala Ile Ala Phe Gly Arg Tyr Phe Ile Ser Thr Pro Asp
 100 105 110
 Leu Pro Phe Arg Val Met Ala Gly Ile Gln Leu Gln Lys Tyr Asp Arg
 115 120 125
 Ala Ser Phe Tyr Ser Thr Leu Ser Arg Glu Gly Tyr Leu Asn Tyr Pro
 130 135 140
 Phe Ser Ala Glu Tyr Met Ala Leu His Asn Phe Pro Val
 145 150 155

<210> 30748
 <211> 503
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (139)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30748

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Ser Ser Leu Gly Leu Asn Glu Gly Lys Arg Asn Thr Tyr Arg Asn Lys
1          5          10          15
Leu Lys Cys Cys Arg Asn Leu Arg Arg Ser Pro Gly Arg Gln Trp Ala
          20          25          30
His His Gly Cys Gly Arg Gly Gly Phe Cys Ala Ser Leu Ser Arg Cys
          35          40          45
Ser Ser Leu Leu Val Leu Leu Ile Asn Cys Gly Pro Arg Ala Val Tyr
          50          55          60
Met Pro Glu Glu Pro Pro Lys Ile Ile Gln Asn Ile Thr Ile Thr Ser
65          70          75          80
Gly Val Lys Cys Glu Pro Asp Phe Asp Val Leu Arg Arg Leu Asp Val
          85          90          95
Gln Lys Leu Ser Gln Tyr Glu Arg Arg Asp Met Phe Val Ala Arg Ser
          100          105          110
Ser Glu Pro Glu Leu Pro Ile Arg Gln Arg Leu Asn Ile Pro Phe Leu
          115          120          125
Gln Gln Pro Ser Ser Gly Asp Glu Ala Arg Xaa Met Gly Leu Pro Ser
          130          135          140
Gln Glu Gln Cys Tyr Ile Glu Pro Pro Val Thr Val Glu Val Pro Pro
145          150          155          160
Ser Pro Ala Ser Val Asp Ala Ser His Ile Asp Phe Gly Val Ala Thr
          165          170          175
Thr Leu Glu Arg Leu Asn Asp Ser Leu Asp Ala Phe Thr His Trp Ala
          180          185          190
Gly Tyr Thr Arg Thr Arg Ile Phe Ala Leu Val Glu Pro Asp Glu Arg
          195          200          205
Val Glu Glu Val Gln Ala Lys Ala Asp Ser Leu Gly Ile Asn Leu Phe
          210          215          220
Val Thr Gln Ser Glu Glu Tyr Gln Thr Arg Tyr Phe Ser Leu Val
225          230          235          240
Ala His Leu Ala Lys Asn Met Arg Pro Arg Thr Arg Trp Ala Cys Val
          245          250          255
Ile Asp Asp Asp Thr Phe Phe Leu Ser Met Ala Ala Leu Val Asp Ala
          260          265          270
Leu Ala Glu Tyr Asp Asp Thr Lys Pro Met Tyr Ile Gly Gly Leu Ser
          275          280          285
Glu Ser Val Ser Gln Ile Gly Ile Phe Gly Leu Met Gly Phe Gly Gly
          290          295          300
Ala Gly Val Phe Leu Ser Arg Pro Leu Val Gln Gln Leu Ser Asn Arg
305          310          315          320
Asp Val Phe Glu Ala Cys Gln Ala Met Pro His Thr Gly Asp Arg Arg
          325          330          335
Ile Ser Leu Cys Ile Tyr Gln His Thr Glu Thr Lys Leu Thr Val Asp
          340          345          350
Asn Arg Leu Arg Gln Leu Asp Met Arg Gly Asp Ala Ser Gly Phe Phe
          355          360          365
Glu Ser Gly Arg Glu Pro Pro Leu Ser Val His His Trp Lys Ser Trp
          370          375          380
Phe Gln Ala Asp Met Ala Lys Leu Ser Val Ile Thr Asn Leu Cys Gly
385          390          395          400
Asp Lys Cys Phe Leu Arg Gln Trp Gln Phe Ser Asp Gly Trp Thr Leu
          405          410          415
Thr Asn Gly Phe Ser Ile Ala Lys Tyr Ser Thr Glu Ile Asp Leu Asp

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	420		425		430										
Asp	Lys	Thr	Met	Glu	Val	Ser	Trp	Val	Gly	Asp	Asn	Gly	Ala	Val	Asp
	435						440				445				
Glu	Ser	Phe	Met	His	Ala	Leu	Gly	Pro	Leu	Arg	Pro	Lys	Asp	Thr	Gly
	450						455				460				
Lys	Phe	Ser	Tyr	Leu	Leu	Glu	Asp	Ser	Val	Phe	Leu	Gly	Asn	Gln	Val
465					470					475				480	
Arg	Gln	Trp	Tyr	Val	His	Arg	Asp	Ala	Glu	Lys	Gly	Asp	Gln	Ile	Ile
			485						490					495	
Glu	Leu	Ile	Trp	Lys	Met	Ala									
	500														

<210> 30749

<211> 490

<212> PRT

<213> A.fumigatus

<400> 30749

Ile	Thr	Pro	Pro	Arg	Ile	Leu	Pro	Thr	Ala	Val	Val	Lys	Thr	Ala	Gln
1				5					10					15	
Trp	Lys	Glu	Lys	Lys	Val	Phe	Glu	Val	Asp	Ala	Pro	Ser	Leu	Ser	Glu
			20					25					30		
Val	Pro	Pro	Ser	Thr	Leu	Ser	Ser	Ala	Glu	Leu	Arg	Glu	Lys	Tyr	Pro
		35					40					45			
Lys	Phe	Phe	Gly	Thr	Met	Ala	Tyr	Pro	Tyr	Met	Asn	Gly	Thr	Leu	His
	50					55					60				
Ala	Gly	His	Ser	Phe	Thr	Ala	Ser	Lys	Ile	Glu	Phe	Met	Thr	Gly	Val
65					70					75					80
Ala	Arg	Met	Glu	Gly	Lys	Arg	Ala	Leu	Phe	Pro	Leu	Gly	Phe	His	Cys
				85					90					95	
Thr	Gly	Met	Pro	Ile	Lys	Ala	Cys	Ala	Asp	Lys	Leu	Ala	Asp	Glu	Val
		100						105					110		
Gln	Lys	Phe	Gly	Lys	Asn	Phe	Glu	Arg	Tyr	Ser	Glu	Glu	Ser	Glu	Glu
	115						120					125			
Gln	Asp	Pro	Thr	Ala	Val	Ala	Ala	Pro	Thr	Gln	Glu	Ile	Lys	Ala	Glu
	130					135					140				
Gln	Glu	Lys	Phe	Ser	Gly	Lys	Lys	Ser	Lys	Ala	Ala	Ala	Lys	Thr	Val
145					150					155					160
Lys	Met	Lys	Tyr	Gln	Phe	Gln	Ile	Met	Leu	Ala	Ile	Gly	Leu	Pro	Leu
				165					170					175	
Glu	Glu	Ile	His	Lys	Phe	Ala	Asp	Ala	Asn	His	Trp	Leu	His	His	Phe
		180						185					190		
Pro	Pro	Leu	Ala	Ile	Arg	Asp	Leu	Asp	Ser	Leu	Gly	Ala	Arg	Val	Asp
		195					200					205			
Trp	Arg	Arg	Gln	Phe	Val	Thr	Thr	Asp	Ala	Asn	Pro	Tyr	Tyr	Asp	Ser
	210					215					220				
Phe	Val	Arg	Trp	Gln	Met	Asn	Arg	Leu	His	Glu	Leu	Gly	Lys	Ile	Leu
225					230					235					240
Tyr	Gly	Asn	Arg	Tyr	Thr	Ile	Tyr	Ser	Pro	Lys	Asp	Gly	Gln	Pro	Cys
				245					250					255	
Met	Asp	His	Asp	Arg	Thr	Glu	Gly	Glu	Gly	Ile	Gly	Pro	Gln	Glu	Tyr
		260						265					270		
Thr	Ala	Met	Lys	Leu	Gln	Val	Lys	Glu	Trp	Ala	Pro	Glu	Ile	Ala	Glu
	275						280					285			
Leu	Val	Lys	Gly	Lys	Ile	Glu	Asp	Asp	Ala	Lys	Val	Tyr	Phe	Val	Pro
	290					295						300			

11732

Ala Thr Leu Arg Pro Glu Thr Met Tyr Gly Gln Thr Cys Cys Phe Leu
 305 310 315 320
 Gly Pro Lys Ile Lys Tyr Gly Ile Phe Arg Val Lys Glu Lys Glu Tyr
 325 330 335
 Tyr Ile Val Thr Lys Arg Ala Ala Trp Asn Met Ala Phe Gln Gly Ile
 340 345 350
 Phe Phe Asp Ser Glu His Phe Pro Lys Thr Gln Asp Glu Leu Pro Leu
 355 360 365
 Val Leu Glu Ala Pro Gly Ser Ala Phe Val Gly Thr Leu Val Asn Ala
 370 375 380
 Pro Leu Ser Phe His Thr Glu Gly Val Arg Ile Leu Pro Met Glu Gly
 385 390 395 400
 Val Ser Ala Thr Lys Gly Thr Gly Val Val Thr Ser Val Pro Ser Asp
 405 410 415
 Ser Pro Asp Asp Tyr Ala Thr Leu Val Asp Leu Ala Lys Lys Pro Glu
 420 425 430
 Tyr Tyr Gly Ile Lys Lys Glu Trp Ala Glu Leu Glu Ile Phe Pro Leu
 435 440 445
 Ile Glu Thr Pro Thr Tyr Gly Asn Leu Thr Ala Pro Thr Leu Val Lys
 450 455 460
 Lys Leu Lys Ile Asn Ser Pro Lys Asp Val Asn Gln Leu Ala Gln Ala
 465 470 475 480
 Lys Glu Leu Ala Tyr Gly Glu Ala Tyr Tyr
 485 490

<210> 30750
 <211> 139
 <212> PRT
 <213> A.fumigatus

<400> 30750
 Ser Ala Ala Pro Ser Thr Pro Val Val Lys Thr Gly Ser Lys Thr Ala
 1 5 10 15
 Thr Ser Arg Pro Met Leu Gln Pro Gly Thr Thr Pro Gly Pro Pro Thr
 20 25 30
 Arg Ala Ala Pro Thr Leu Asp Arg Met Pro Pro Tyr Lys Leu Gly Met
 35 40 45
 Thr Ile Thr Ser Asn Cys Trp Gly Arg Glu Thr Ala Cys Met Asp Ala
 50 55 60
 Leu Ser Thr Ile Met Ser Leu Thr Ser Arg Val Gly Tyr Ile Ser Ala
 65 70 75 80
 Thr Leu Trp Lys Val Leu Arg Asn Lys Pro Ser Ala Ser Phe Met Met
 85 90 95
 Phe Ala Leu Trp Met Gln Val Thr Phe Phe Leu Leu Leu Ala Arg Ala
 100 105 110
 Asn Pro Asn Ala Asn Leu Ala Met Arg Ser Asp Phe Ala Arg Val Met
 115 120 125
 Ile Phe Ser Asp Ser Thr Thr Pro Cys Thr Asp
 130 135

<210> 30751
 <211> 264
 <212> PRT
 <213> A.fumigatus

<400> 30751

11733

Cys Lys Gly Asp Gly Ile Gly Ala Glu Val Ala Glu Ser Val Lys Thr
 1 5 10 15
 Ile Phe Lys Ala Asp Asn Val Pro Ile Glu Trp Glu Gln Val Asp Val
 20 25 30
 Ser Gly Val Asp Thr Gly Asn Lys His Ser Glu Glu Leu Phe Lys Glu
 35 40 45
 Ser Ile Ala Ser Leu Arg Arg Asn Lys Leu Gly Leu Lys Gly Ile Leu
 50 55 60
 Phe Thr Pro Val Glu Arg Ser Gly His Gln Ser Phe Asn Val Ala Leu
 65 70 75 80
 Arg Gln Glu Leu Asp Ile Phe Ala Ser Ile Val Leu Ile Lys Asn Ile
 85 90 95
 Pro Gly Tyr Lys Thr Arg His Glu Asn Val Asp Leu Cys Ile Ile Arg
 100 105 110
 Glu Asn Thr Glu Gly Glu Tyr Ser Gly Leu Glu His Gln Ser Val Gln
 115 120 125
 Gly Val Val Glu Ser Leu Lys Ile Ile Thr Arg Ala Lys Ser Glu Arg
 130 135 140
 Ile Ala Lys Phe Ala Phe Gly Phe Ala Leu Ala Asn Asn Arg Lys Lys
 145 150 155 160
 Val Thr Cys Ile His Lys Ala Asn Ile Met Lys Leu Ala Asp Gly Leu
 165 170 175
 Phe Arg Ser Thr Phe His Lys Val Ala Glu Met Tyr Pro Thr Leu Glu
 180 185 190
 Val Asn Asp Met Ile Val Asp Asn Ala Ser Met Gln Ala Val Ser Arg
 195 200 205
 Pro Gln Gln Phe Asp Val Met Val Met Pro Asn Leu Tyr Gly Gly Ile
 210 215 220
 Leu Ser Asn Val Gly Ala Ala Leu Val Gly Gly Pro Gly Val Val Pro
 225 230 235 240
 Gly Cys Asn Met Gly Arg Asp Val Ala Val Phe Glu Pro Val Phe Thr
 245 250 255
 Thr Gly Val Glu Gly Ala Ala Leu
 260

<210> 30752

<211> 140

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (128), (133), (136)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30752

His Ile Lys Leu Thr Ile Arg Val Pro Asp Tyr Val Ile Gly Asp Pro
 1 5 10 15
 Phe Arg Leu Arg Gln Ile Ile Leu Asn Leu Val Gly Asn Ala Ile Lys
 20 25 30
 Phe Thr Glu His Gly Glu Val Lys Leu Thr Ile Arg Lys Ser Asp Arg
 35 40 45
 Glu Gln Cys Ala Pro Asn Glu Tyr Ala Ser Glu Phe Ser Val Ser Asp
 50 55 60
 Thr Gly Ile Gly Ile Glu Glu Asp Lys Leu Asp Leu Ile Phe Asp Thr
 65 70 75 80

11734

Phe	Gln	Gln	Ala	Asp	Gly	Ser	Thr	Thr	Arg	Arg	Phe	Gly	Gly	Thr	Gly
				85					90					95	
Leu	Gly	Leu	Ser	Ile	Ser	Lys	Arg	Leu	Val	Asn	Leu	Met	Val	Gly	Asp
			100					105					110		
Val	Trp	Val	Thr	Ser	Glu	Tyr	Gly	Ser	Leu	His	Leu	Gly	Ala	Gly	Xaa
		115					120					125			
Val	Pro	Leu	Ser	Xaa	Gln	Arg	Xaa	Ile	Gln	Cys	Arg				
	130					135					140				

<210> 30753

<211> 861

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (186)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30753

Arg	Val	Thr	Ser	Ser	Ser	Arg	Glu	Gln	Cys	Ala	Lys	Leu	Pro	Gly	Glu
1				5					10					15	
Pro	Ser	Gln	Ala	Lys	Ala	Ala	Phe	Glu	Phe	Glu	Leu	Glu	Ala	Leu	Ile
			20					25					30		
Arg	Arg	Val	Arg	His	Leu	Glu	Phe	Gln	Val	Val	Ser	His	Gln	Pro	Tyr
		35				40					45				
Pro	Arg	Pro	Ala	Pro	Glu	Leu	Pro	Leu	Ser	Ser	Thr	Lys	Asn	Ser	Asp
	50				55						60				
Phe	Leu	Trp	Leu	Phe	Gly	Leu	Ser	Arg	Leu	Ser	Ser	His	Glu	Gly	Ala
65				70					75					80	
Ala	Ser	Asn	Ser	Ser	Cys	Gly	Met	Gln	Gln	Glu	Thr	Ser	Arg	Arg	Arg
			85					90					95		
Gln	Arg	Thr	Arg	Arg	Ile	Arg	Arg	Glu	Ala	Glu	Asp	Asn	Glu	Ala	Asp
		100						105					110		
Glu	Ala	Leu	Asp	Asp	Asp	Asp	Ser	Asp	Asp	Asp	Val	Asn	Ser	Arg	Thr
	115					120						125			
Arg	Leu	Val	Arg	Glu	Glu	Asp	Ile	Ser	Tyr	Leu	Arg	Asn	His	Val	Gln
	130					135					140				
Lys	Gln	Ala	Glu	Glu	Ile	Ser	Phe	Gln	Lys	Asp	Ile	Ile	Ala	Gln	Val
145					150					155				160	
Arg	Asp	Glu	Leu	Leu	Gln	Gln	Glu	Glu	His	Thr	Arg	Arg	Ala	Leu	Thr
			165					170					175		
Lys	Val	Glu	Asn	Glu	Asp	Val	Val	Leu	Xaa	Glu	Arg	Glu	Leu	Arg	Lys
		180						185					190		
Gln	Gln	Gln	Ala	Asn	Glu	Ala	Phe	Gln	Lys	Ala	Leu	Arg	Glu	Ile	Gly
	195						200					205			
Gly	Ile	Ile	Thr	Gln	Val	Ala	Asn	Gly	Asp	Leu	Ser	Met	Lys	Val	Gln
	210					215					220				
Ile	His	Pro	Leu	Glu	Met	Asp	Pro	Glu	Ile	Ala	Thr	Phe	Lys	Arg	Thr
225				230						235				240	
Ile	Asn	Thr	Met	Met	Asp	Gln	Leu	Gln	Val	Phe	Gly	Ser	Glu	Val	Ser
			245						250				255		
Arg	Val	Ala	Arg	Glu	Val	Gly	Thr	Glu	Gly	Ile	Leu	Gly	Gly	Gln	Ala
		260						265					270		
Gln	Ile	Thr	Gly	Val	His	Gly	Ile	Trp	Lys	Glu	Leu	Thr	Glu	Asn	Val
	275						280						285		

Asn Ile Met Ala Lys Asn Leu Thr Asp Gln Val Arg Glu Ile Ala Ala
 290 295 300
 Val Thr Thr Ala Val Ala His Gly Asp Leu Ser Gln Lys Ile Glu Ser
 305 310 315 320
 Arg Ala Gln Gly Glu Ile Leu Glu Leu Gln Gln Thr Ile Asn Thr Met
 325 330 335
 Val Asp Gln Leu Arg Thr Phe Ala Thr Glu Val Thr Arg Val Ala Arg
 340 345 350
 Asp Val Gly Thr Glu Gly Val Leu Gly Gly Gln Ala Gln Ile Glu Gly
 355 360 365
 Val Gln Gly Met Trp Asn Glu Leu Thr Val Asn Val Asn Ala Met Ala
 370 375 380
 Asn Asn Leu Thr Thr Gln Val Arg Asp Ile Ala Thr Val Thr Lys Ala
 385 390 395 400
 Val Ala Lys Gly Asp Leu Thr Gln Lys Val Gln Ala Asn Cys Lys Gly
 405 410 415
 Glu Ile Ala Glu Leu Lys Asn Ile Ile Asn Ser Met Val Asp Gln Leu
 420 425 430
 Arg Gln Phe Ala Gln Glu Val Thr Lys Ile Ala Lys Glu Val Gly Thr
 435 440 445
 Asp Gly Val Leu Gly Gly Gln Ala Thr Val Asn Asp Val Glu Gly Thr
 450 455 460
 Trp Lys Asp Leu Thr Glu Asn Val Asn Arg Met Ala Asn Asn Leu Thr
 465 470 475 480
 Thr Gln Val Arg Glu Ile Ala Asp Val Thr Thr Ala Val Ala Lys Gly
 485 490 495
 Asp Leu Thr Lys Lys Val Thr Ala Asn Val Gln Gly Glu Ile Leu Asp
 500 505 510
 Leu Lys Ser Thr Ile Asn Gly Met Val Asp Arg Leu Asn Thr Phe Ala
 515 520 525
 Phe Glu Val Ser Lys Val Ala Arg Glu Val Gly Thr Asp Gly Thr Leu
 530 535 540
 Gly Gly Gln Ala Lys Val Asp Asn Val Glu Gly Lys Trp Lys Asp Leu
 545 550 555 560
 Thr Asp Asn Val Asn Thr Met Ala Gln Asn Leu Thr Ser Gln Val Arg
 565 570 575
 Ser Ile Ser Asp Val Thr Gln Ala Ile Ala Lys Gly Asp Leu Ser Lys
 580 585 590
 Lys Ile Glu Val His Ala Gln Gly Glu Ile Leu Thr Leu Lys Val Thr
 595 600 605
 Ile Asn His Met Val Asp Arg Leu Ala Lys Phe Ala Thr Glu Leu Lys
 610 615 620
 Lys Val Ala Arg Asp Val Gly Val Asp Gly Lys Met Gly Gly Gln Ala
 625 630 635 640
 Asn Val Glu Gly Ile Ala Gly Thr Trp Lys Glu Ile Thr Glu Asp Val
 645 650 655
 Asn Thr Met Ala Glu Asn Leu Thr Ser Gln Val Arg Ala Phe Gly Glu
 660 665 670
 Ile Thr Asp Ala Ala Thr Asp Gly Asp Phe Thr Lys Leu Ile Thr Val
 675 680 685
 Asn Ala Ser Gly Glu Met Asp Glu Leu Lys Arg Lys Ile Asn Lys Met
 690 695 700
 Val Ser Asn Leu Arg Asp Ser Ile Gln Arg Asn Thr Ala Ala Arg Glu
 705 710 715 720
 Ala Asp Glu Leu Ala Asn Arg Thr Lys Ser Asp Phe Leu Ala Asn Met
 725 730 735

Ser His Glu Ile Arg Ser Pro Met Asn Gly Ile Ile Gly Met Thr Gln
 740 745 750
 Leu Thr Ile Asp Thr Val Asp Leu Lys Pro His Thr Arg Glu Met Leu
 755 760 765
 Asn Val Val His Asn Leu Ser Asn Ser Leu Leu Thr Ile Ile Asp Asp
 770 775 780
 Ile Leu Asp Ile Ser Lys Ile Glu Ala Asn Arg Met Val Ile Glu Ser
 785 790 795 800
 Ile Pro Phe Thr Val Arg Gly Thr Val Phe Asn Ala Leu Lys Thr Leu
 805 810 815
 Ala Val Lys Ala Asn Glu Lys Phe Leu Ser Leu Thr Tyr Gln Val Asp
 820 825 830
 Asn Thr Cys Thr Gly Leu Cys His Trp Arg Ser Phe Pro Ser Ala Ser
 835 840 845
 Asp His Phe Glu Leu Gly Arg Gln Arg His Gln Val His
 850 855 860

<210> 30754

<211> 96

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (4)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30754

Leu Ala Phe Xaa Gln Asp Tyr Ile Phe Ile Leu Asn Leu Gly Gln Cys
 1 5 10 15
 Pro Ser Arg Val Leu Leu Leu Leu Gln Lys Leu Val Ala Asn Leu Ser
 20 25 30
 Asp Asp Val Phe Leu Glu Ala Tyr Phe Leu Cys Leu Phe Leu Tyr Met
 35 40 45
 Ile Pro Gln Ile Thr Asp Val Phe Leu Ala Asn Glu Ser Ser Ser Arg
 50 55 60
 Val Asn Ile Ile Ile Thr Val Val Val Ile Glu Arg Leu Ile Ser Leu
 65 70 75 80
 Ile Val Phe Arg Phe Ala Ala Asp Ser Pro Cys Ser Leu Thr Thr Ser
 85 90 95

<210> 30755

<211> 239

<212> PRT

<213> A.fumigatus

<400> 30755

Gln Leu Gln Arg Ile Gly Thr Val Ile Ser Ser Leu Asn Gln Thr Cys
 1 5 10 15
 Glu Glu Met Arg Gln His Ile Val Arg Ala Lys Gln Asp Thr Ala Pro
 20 25 30
 Val Ile Glu Glu Ala Ser Ala Leu Met Asn Gln Lys Lys Glu Ser Glu
 35 40 45
 Thr Lys Gln Gln Leu Leu Asp Ala Phe Val Lys His Phe Ile Val Thr
 50 55 60
 Glu Asp Asp Leu Leu Val Leu Thr Ser Ala Glu Glu Pro Ile Asp Asp

11737

65		70		75		80									
Arg	Phe	Phe	Asn	Val	Leu	Asp	Arg	Val	Lys	Gln	Val	His	His	Asp	Cys
			85						90					95	
Glu	Val	Leu	Leu	Gly	Gly	Glu	Asn	Gln	Arg	Leu	Gly	Leu	Glu	Leu	Met
			100					105					110		
Glu	Lys	Ser	Ser	Arg	Asn	Leu	Asn	Ser	Ala	Tyr	Gln	Lys	Leu	Phe	Arg
		115					120					125			
Trp	Ile	Gln	Lys	Lys	Phe	Lys	Ser	Leu	Asn	Leu	Glu	Asp	Pro	Arg	Ile
	130					135					140				
Ser	Ser	Ser	Ile	Arg	Arg	Ala	Leu	Arg	Val	Leu	Ala	Glu	Arg	Pro	Ser
145				150						155				160	
Leu	Phe	His	Ser	Cys	Leu	Asp	Phe	Phe	Ala	Asp	Ala	Arg	Asp	Tyr	Ala
			165					170						175	
Leu	Ser	Asp	Ala	Phe	His	Tyr	Ala	Leu	Thr	Asp	Thr	Val	Ser	Gly	Ser
		180						185					190		
Gly	Gly	Asp	Arg	Asn	Val	Lys	Pro	Ile	Glu	Phe	Ser	Ala	His	Asp	Pro
	195					200						205			
Leu	Arg	Tyr	Val	Gly	Asp	Met	Leu	Ala	Trp	Val	His	Ser	Thr	Thr	Val
	210				215						220				
Ser	Glu	Arg	Glu	Ala	Leu	Glu	Ala	Leu	Phe	Val	Ala	Glu	Gly	Gly	
225				230						235					

<210> 30756

<211> 83

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (67), (80)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30756

Ala	Ser	Gln	Phe	Ile	Ser	Phe	Phe	Cys	Phe	Cys	Phe	Ser	Lys	Asn	Asn
1			5					10					15		
Ile	Ile	Cys	Tyr	Ser	Ser	Leu	Met	Thr	Ile	Thr	Tyr	Tyr	Tyr	Ile	Val
		20					25					30			
Ile	Leu	Arg	Leu	Ser	Leu	Ile	Leu	Tyr	Ser	Leu	Asp	Thr	Ser	Tyr	Cys
	35					40					45				
Arg	Ser	Gln	Ser	Ile	Tyr	Ile	Ser	Val	His	Leu	Leu	Pro	Met	Tyr	Cys
	50				55					60					
Val	Leu	Xaa	Ser	Ala	Pro	Gly	Ala	Glu	Gly	Ser	Arg	Ile	Ser	Arg	Xaa
65				70					75				80		
Pro	Gln	Asp													

<210> 30757

<211> 70

<212> PRT

<213> A.fumigatus

<400> 30757

His	Glu	Thr	Ala	Phe	Ser	Val	Pro	Gly	Leu	Ala	Asn	Leu	Ser	Ala	Phe
1			5					10					15		
Asp	Lys	Ala	Glu	Phe	Lys	Met	Ala	Val	Gln	Arg	Thr	Pro	Asn	Ala	Ala
	20						25					30			

11738

Gln Gly Leu Thr Asn Trp Thr Leu Asp Gly Val Tyr Tyr Ser Phe Gly
 35 40 45
 Val Ser Ile Gln Val His Gln Thr Ser Leu Ser His Ile Leu Arg Leu
 50 55 60
 Ser Gly Arg Asp Met Gly
 65 70

<210> 30758
 <211> 63
 <212> PRT
 <213> A.fumigatus

<400> 30758
 Tyr Leu Thr Pro Val Thr Leu Asp His Glu Phe Pro Asp Ile Val Ser
 1 5 10 15
 Gly Val Asn Phe Thr Lys Cys Leu Leu Glu Pro Pro Tyr Val His Ser
 20 25 30
 Met Phe Lys Leu Ile Pro Asn Met Phe Leu Ser Ser Ile Ser Gln Ala
 35 40 45
 Ile Leu Glu Asp Ser Cys Pro Thr Ser Lys Asn Lys Cys Leu Ile
 50 55 60

<210> 30759
 <211> 158
 <212> PRT
 <213> A.fumigatus

<400> 30759
 Lys Leu Phe Ser Ile Arg Leu Ala Tyr Val Phe Thr Pro Ile Tyr Leu
 1 5 10 15
 His Leu Ser Cys Thr Gln Leu Arg Arg Asn Ile Val Phe Asp Ser Ser
 20 25 30
 Pro Thr Met Ser Leu Ala Phe Thr Asn Gln Pro Pro Glu Glu Arg Val
 35 40 45
 Pro Tyr Ala Ile Pro Gln Leu Glu Gly Glu Arg Ile Thr Ile Pro Gly
 50 55 60
 Ser Lys Gly Thr Phe Arg Ile Leu Ala Ser Ser Lys Gln Thr Asn Gly
 65 70 75 80
 Leu Met Ala Val Phe Gln Ser Gly Ala Val Leu Ser Asp Val Pro Gly
 85 90 95
 Phe His Tyr His Asn Gln Ala His Asp Val Phe Leu Val Thr Lys Gly
 100 105 110
 Tyr Leu Lys Leu Trp Asn Gly Asp Lys Cys Arg Ile Met Gly Pro Gly
 115 120 125
 Asp Phe Ala Tyr Val Pro Pro Val Ser Arg Asn His Val Phe Arg Phe
 130 135 140
 Ala Ser Ala Leu Leu Thr Leu Phe Thr Glu Ser His Ser
 145 150 155

<210> 30760
 <211> 251
 <212> PRT
 <213> A.fumigatus

<400> 30760
 Gln Pro Ser Leu Gln Lys Val Ile His Asn Pro Glu Met Leu Gly Pro

11739

1		5		10		15
His	Thr	Glu	Ile	Tyr	Gly	Leu
		20		25		30
Phe	Arg	Tyr	Val	Ser	Glu	Pro
		35		40		45
Asp	Asn	Arg	Asp	Leu	Lys	Ser
		50		55		60
Lys	Glu	Lys	Phe	Asp	Val	Val
		65		70		75
Val	Gly	Glu	Phe	Thr	Lys	Asp
		85		90		95
Pro	Tyr	Phe	Leu	Arg	Ser	Asn
		100		105		110
Val	Met	Ser	Arg	Pro	Phe	Ile
		115		120		125
Ala	Ile	Ser	Ser	Ile	Glu	Ser
		130		135		140
Ser	Lys	Tyr	Met	Thr	Phe	Lys
		145		150		155
Glu	Gly	Thr	Leu	Thr	Val	Arg
		165		170		175
Arg	Glu	Gly	Glu	Thr	Val	Val
		180		185		190
Arg	Phe	Asp	Ser	Lys	Tyr	Val
		195		200		205
Gly	Ile	Glu	Ser	Leu	Val	His
		210		215		220
Val	Leu	Pro	Asp	Lys	Glu	Pro
		225		230		235
Val	Ala	Thr	Glu	Leu	Asn	Val
		245		250		

<210> 30761

<211> 137

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222>

(11), (13), (19), (20), (21), (22), (28), (29), (30), (31), (32), (33), (34), (35), (53), (63), (69)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30761

Leu	Ser	Ser	Glu	Tyr	Pro	Gly	His	Phe	Leu	Xaa	Glu	Xaa	Thr	Pro	Gln
1				5					10				15		
Ser	Lys	Xaa	Xaa	Xaa	Xaa	Arg	Lys	Arg	Gly	Arg	Xaa	Xaa	Xaa	Xaa	Xaa
		20				25					30				
Xaa	Xaa	Xaa	Lys	Ile	Asn	Leu	Asn	Glu	Arg	Tyr	Lys	Tyr	Ala	Trp	Met
		35				40					45				
Met	Gln	His	Gln	Xaa	Gln	Pro	Ser	Phe	Arg	Thr	Pro	Pro	Gln	Xaa	Pro
		50				55					60				
Lys	Arg	Gln	Arg	Xaa	Thr	Gln	Ala	Cys	Asp	Ser	Val	Arg	Leu	Lys	Lys
		65				70					75				80
Tyr	Lys	Cys	Asp	Glu	Leu	Tyr	Pro	Cys	Thr	His	Cys	Arg	Ser	Lys	Tyr

11740

				85					90					95					
Val	Thr	Tyr	Thr	Gly	Phe	Asn	Met	Ile	Arg	Gly	Leu	Ile	Met	Gly	Arg				
				100															
Lys	Gln	Ala	Arg	Met	His	Leu	Ser	Glu	Glu	Leu	Pro	Ala	Ala	Arg	Lys				
				115															
Arg	Pro	Val	Ser	Gln	Val	Phe	Ser	Gln											
				130															

<210> 30762

<211> 283

<212> PRT

<213> A.fumigatus

<400> 30762

His	Asn	Thr	Asn	Arg	Leu	Ile	Ala	Ile	Met	Leu	Gly	Arg	Leu	Lys	Met				
1				5					10					15					
Asn	Val	Asp	Gln	Cys	Ile	Asp	Ala	Tyr	Val	Arg	Ile	Ser	Lys	Gln	Ala				
			20					25					30						
Phe	Ser	Arg	Lys	Asn	Tyr	Leu	Pro	Ile	Thr	Leu	Gln	Gly	Glu	Phe	Arg				
			35				40					45							
Ala	Arg	Phe	Asp	Ser	Lys	Thr	Leu	Glu	Glu	Ala	Leu	Lys	Ala	Val	Val				
			50			55					60								
Val	Glu	Gln	Gly	Leu	Asp	Glu	Asp	Ala	Leu	Leu	Trp	Asp	Pro	Asp	Thr				
65				70					75					80					
Ser	Cys	Arg	Val	Phe	Val	Cys	Thr	Leu	Lys	Lys	Ile	Thr	Gly	Lys	Val				
				85				90						95					
Val	Ser	Phe	Ser	Ser	Tyr	Glu	His	Trp	Ala	Gly	Gln	Ser	Ser	Leu	Tyr				
			100					105					110						
Lys	Val	Leu	Arg	Ile	Trp	Glu	Ala	Gly	Arg	Ala	Thr	Ser	Ala	Ala	Pro				
			115				120						125						
Ser	Phe	Phe	Asp	Pro	Leu	Val	Ile	Phe	Asp	Pro	Val	Leu	Arg	Phe	Glu				
			130			135					140								
Arg	Val	Phe	Leu	Asp	Gly	Ala	Leu	Gly	Ala	Asn	Asn	Ser	Val	Ala	Gln				
145				150						155				160					
Met	Trp	Phe	His	Ala	Lys	Met	Leu	Trp	Glu	Glu	Asp	Leu	Lys	Ser	Arg				
			165					170						175					
Leu	Gly	Cys	Leu	Val	Ser	Leu	Gly	Thr	Gly	Met	Arg	Ser	Glu	Thr	Glu				
			180					185					190						
Phe	Thr	Gly	Gly	Phe	Ile	Gln	Glu	Leu	Lys	Leu	Arg	Lys	Arg	Thr	Leu				
			195				200					205							
Thr	Asp	Ser	Glu	Phe	Glu	Ala	Asp	Thr	Phe	Ala	Tyr	Glu	His	Tyr	Asp				
			210			215					220								
Leu	Val	Glu	Glu	His	Arg	Tyr	Phe	Arg	Phe	Asn	Val	Ser	Asn	Ala	Leu				
225				230						235				240					
Gly	Asp	Ile	Gly	Leu	Glu	Glu	Val	Gln	Lys	Met	Asp	Lys	Ile	Val	Ser				
			245					250					255						
Glu	Thr	Arg	Thr	Tyr	Leu	Ala	Asp	Asp	Ala	Val	Arg	Glu	Glu	Ile	Ala				
			260				265						270						
Leu	Cys	Ala	Ala	Thr	Leu	Gln	Lys	Arg	Gln	Val									
			275				280												

<210> 30763

<211> 83

<212> PRT

<213> A.fumigatus

<400> 30763

Arg Cys Gln Asn Cys Trp Tyr Ser Asn Ile Ile Leu Glu Val Lys Leu
 1 5 10 15
 Asp Ile Asn Asn Leu Tyr Ile Met Asp Met Glu Lys Gln Thr Asp Lys
 20 25 30
 Glu Lys Leu Asn Leu Leu Cys Leu Asp Gly Gly Gly Val Arg Gly Leu
 35 40 45
 Ser Ser Leu Tyr Val Leu Lys Asp Met Met Glu Ala Ile Asn Pro Ser
 50 55 60
 Asn Pro Pro Lys Pro Cys Glu Ile Phe Asp Met Ile Gly Gly Thr Ser
 65 70 75 80
 Ala Gly Gly

<210> 30764

<211> 195

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (66)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30764

Gly Phe Gly Arg Arg Thr Gln Ser Met Val Leu Leu Gly Lys Leu Ala
 1 5 10 15
 Arg Ile Pro Phe Glu Ala Asn Val Arg Ile Gln Val Ser Ala Ser Asn
 20 25 30
 Leu Met Val Ala Ser Pro Val Phe Lys Lys Ala Leu Thr Gly Lys Gly
 35 40 45
 Lys Glu Gly Ser Thr Phe Val Gly Thr Gly Ser Val Ile Thr Thr
 50 55 60
 Glu Xaa Trp Asp Val Glu Ala Phe Leu Ile Leu Leu Arg Ile Leu Gly
 65 70 75 80
 Gly Gln His His Lys Leu Pro Lys Arg Val Ser Leu Glu Leu Ala Ala
 85 90 95
 Lys Ile Ala Val Leu Ala Asp Tyr Tyr Gln Cys Asn Asp Leu Val Gly
 100 105 110
 Phe Ile Arg Asp Ala Trp Ile Thr Cys Leu Arg Glu Glu Leu Pro Val
 115 120 125
 Thr Tyr Ser Arg Asn Leu Ile Leu Trp Leu Trp Ile Ser Trp Tyr Phe
 130 135 140
 Asn Met Pro Leu Lys Phe Lys Lys Ala Thr Ser Val Ala Met Ser Gln
 145 150 155 160
 Ser Lys Asp Lys Ile Asp Ala Leu Glu Leu Pro Ile Pro Ala Arg Ile
 165 170 175
 Ile Cys Lys Ser Val Pro Ile Leu Ser Val Arg Glu Ile Ala Asp His
 180 185 190
 Glu Ser Arg
 195

<210> 30765

<211> 517

<212> PRT

<213> A.fumigatus

<400> 30765

Asn	Gln	Thr	Lys	Thr	Thr	Pro	Pro	Leu	His	Pro	Ser	Lys	Ile	Gly	His
1				5					10					15	
Leu	Gln	His	Lys	His	Thr	Asp	Thr	Ser	Lys	Glu	Ser	Ser	Gly	Asn	Val
			20					25					30		
Gly	Pro	Lys	Leu	Pro	Val	Ala	Asn	Leu	Asp	Ser	His	Gly	Ala	Ser	Gly
		35					40					45			
Asn	Thr	Cys	Gly	Ser	Leu	Gly	Ser	Leu	Thr	Cys	Ala	Ala	Gly	Ala	Gly
	50					55				60					
Ala	Ala	Ser	Gly	Thr	Gly	Gly	His	Gly	Pro	Ser	Ala	Ser	Ser	Ser	Gly
65					70					75					80
Leu	Ala	Asp	Gln	Arg	Gly	Ala	Arg	Ala	Arg	Ser	Ile	Ser	Thr	Leu	Leu
			85					90						95	
Gly	Leu	Gly	Leu	Ala	Ile	Lys	Val	Thr	Gly	Gly	Arg	Gly	Leu	Val	Val
			100					105					110		
Leu	Leu	Val	Val	Leu	Val	His	Asp	Glu	Arg	Glu	Leu	Leu	Leu	Gly	Ala
		115					120					125			
Ala	Asp	Ala	Val	Ser	Ser	Val	Val	Thr	Ala	Gly	Gly	Val	Gly	Val	Asp
		130				135					140				
Ser	Thr	Ala	His	Thr	Gly	Gly	Ala	Glu	Ile	Val	Glu	Gln	Val	Ala	Val
145					150					155					160
Leu	Leu	Leu	Val	His	Arg	Ile	Leu	His	Ser	Ala	Gly	Gln	Ser	Leu	Asp
			165					170						175	
His	Ala	Val	Thr	Gln	Leu	Ala	Val	Gly	Thr	Arg	Arg	Gln	Leu	Val	Gly
		180						185					190		
Gly	Leu	Pro	Leu	Gly	Thr	Asp	Arg	Arg	Ala	Gly	Arg	Asp	Gly	Ser	Val
		195				200						205			
Gly	Gly	Ser	Val	Ala	Cys	Thr	Val	His	Thr	Gly	Gly	Arg	Tyr	Leu	Leu
	210				215						220				
His	Leu	Asn	Gly	Gln	Val	Gly	Glu	Ile	Phe	Leu	Gly	Leu	Asp	Ile	Val
225				230					235						240
Ala	Ala	Asp	Arg	Asn	Gln	Thr	Val	Val	Ile	Gly	Leu	Leu	Glu	Val	His
			245					250					255		
Ile	Asp	Asn	Thr	Thr	Ala	Pro	Asp	Val	Val	His	Leu	Gly	Thr	Val	Gln
		260					265						270		
Ser	Gly	Asp	Ile	Gly	Lys	Leu	Ala	Gly	Leu	Gly	Val	Asn	Ala	Ala	Val
		275				280						285			
Leu	Gly	Glu	Glu	Ser	Arg	Asp	Arg	Val	Leu	Gly	Lys	Phe	Leu	Ser	Ala
	290					295					300				
Val	Leu	Val	Ala	Arg	Leu	Leu	Glu	Gly	Arg	Ile	Thr	Ala	Pro	Leu	Val
305					310					315					320
Asn	Val	Val	Ala	Glu	His	Val	Asp	Arg	Ala	Leu	Leu	Ile	Thr	Ala	Asp
			325						330					335	
Lys	Val	Val	Gly	Gln	Val	Gly	Thr	Asp	Val	Gly	Val	Leu	Val	Gly	Gly
		340					345					350			
Val	Ser	Asp	Lys	Gln	Gly	Gly	Ala	Val	Ile	Leu	Arg	Leu	Asp	Val	Arg
		355				360						365			
Leu	His	Val	Ser	His	Gly	Ser	Leu	His	Val	Gly	Asn	Arg	Ile	Gly	Val
	370					375					380				
Val	Val	Val	Ile	Gly	Asp	Leu	Val	Thr	Arg	Glu	Lys	Ala	Asn	Asp	Ile
385				390						395					400
Ala	Val	Leu	Gly	Lys	Gly	Val	Asn	Asp	Ala	Gly	Ile	Ala	Leu	Val	Glu
			405						410				415		
Val	Gly	Val	Pro	Gly	Arg	Val	Arg	Thr	Val	Asp	Gly	Leu	Arg	Trp	Arg
			420					425					430		

11743

Gly Gln Ile Arg Asn Gln Val Asp Ala Gly Val Val Gln Glu Leu His
 435 440 445
 Thr Phe Ile Met Val Leu Arg Gly Ile Asp Ser Ile Gly Thr Asp Asp
 450 455 460
 Ile Gly Ala Gln Leu Leu Gln Val Gly Asn Val Thr Leu Ala Val Val
 465 470 475 480
 Asn Ile Gly Gln Arg Ile Gly Val Val Gly Val Leu Gly Arg Cys Ala
 485 490 495
 Val Gly Leu Val Leu Leu Cys Ile Gly Leu Val Ser Gly Gly Asp Arg
 500 505 510
 Leu Met Gly Phe Leu
 515

<210> 30766
 <211> 488
 <212> PRT
 <213> A.fumigatus

<400> 30766
 Ser Asn Ala Glu Glu Tyr Gln Ala Asn Gly Thr Ser Thr Glu Asn Ser
 1 5 10 15
 Asp Tyr Thr Asp Pro Leu Ala Asn Val Asp Asn Cys Lys Arg Asp Ile
 20 25 30
 Pro Tyr Leu Lys Gln Leu Arg Thr Asn Val Ile Arg Thr Tyr Ala Val
 35 40 45
 Asp Pro Thr Lys Asp His Asp Glu Cys Met Lys Leu Leu Asp Asp Ala
 50 55 60
 Gly Ile Tyr Leu Ile Thr Asp Leu Ser Ala Pro Ser Glu Ser Ile Asn
 65 70 75 80
 Arg Ala Asp Pro Ala Trp Asn Thr Asp Leu Tyr Lys Arg Tyr Thr Ser
 85 90 95
 Val Ile Asp Ala Phe Ala Lys Tyr Ser Asn Val Ile Gly Phe Phe Ala
 100 105 110
 Gly Asn Glu Val Ala Asn Asp Asn Asn Thr Asn Ser Ile Ala Tyr
 115 120 125
 Val Lys Ala Ala Val Arg Asp Met Lys Ser Tyr Ile Lys Ser Lys Asp
 130 135 140
 Tyr Arg Ser Ser Leu Leu Val Gly Tyr Ala Thr Asp Glu Asp Ala His
 145 150 155 160
 Ile Gly Ala Asp Leu Ala Asp Tyr Leu Val Cys Gly Asp Lys Glu Ser
 165 170 175
 Ser Ile Asp Met Phe Gly Tyr Asn Ile Tyr Glu Trp Cys Gly Asp Ser
 180 185 190
 Ser Phe Glu Lys Ser Gly Tyr Lys Asp Arg Thr Glu Glu Phe Ser Lys
 195 200 205
 Tyr Pro Val Pro Ala Phe Phe Ser Glu Tyr Gly Cys Ile Asp Pro Lys
 210 215 220
 Pro Arg Lys Phe Thr Asp Val Ala Ala Leu Tyr Gly Pro Gln Met Asn
 225 230 235 240
 Asp Val Trp Ser Gly Ile Val Tyr Met Tyr Phe Gln Glu Ala Asn
 245 250 255
 Asp Tyr Gly Leu Val Ser Val Ser Gly Asp Asn Val Lys Thr Lys Glu
 260 265 270
 Asp Phe Ser Tyr Leu Ser Val Gln Met Gln Lys Val Thr Ala Thr Gly
 275 280 285
 Val Asn Ser Ala Ser Tyr Thr Ala Ser Asn Thr Ala Val Pro Thr Cys

290 295 300
 Pro Ser Val Gly Ala Lys Trp Glu Ala Ser Asn Lys Leu Pro Pro Ser
 305 310 315 320
 Pro Asn Ser Glu Leu Cys Asp Cys Met Val Glu Thr Leu Ser Cys Thr
 325 330 335
 Val Lys Asp Ser Val Asp Glu Lys Glu Tyr Gly Asp Leu Phe Asp Tyr
 340 345 350
 Leu Cys Ala Ala Gly Val Cys Gly Gly Ile Asn Ser Asn Ser Thr Ser
 355 360 365
 Gly Asp Tyr Gly Ala Tyr Ser Val Cys Ser Ala Lys Gln Lys Leu Ser
 370 375 380
 Phe Val Met Asn Gln Tyr Tyr Lys Lys Asn Asn Lys Ala Ala Thr Ala
 385 390 395 400
 Cys Asp Phe Asp Gly Lys Ala Gln Thr Lys Lys Gly Ala Asp Ala Ser
 405 410 415
 Gly Ser Cys Ala Ser Leu Ile Ser Gln Ala Gly Thr Ala Gly Thr Gly
 420 425 430
 Ser Val Thr Ala Gly Ala Thr Gly Ser Ser Gly Ser Gly Ser Ala Ser
 435 440 445
 Glu Thr Ser Lys Gly Ala Ala Gly Val Ala Ala Ser Pro Met Ala Val
 450 455 460
 Lys Val Gly Asn Trp Gln Phe Gly Ala Tyr Ile Ala Thr Ala Leu Phe
 465 470 475 480
 Ala Gly Val Gly Met Leu Val Leu
 485

<210> 30767

<211> 381

<212> PRT

<213> A.fumigatus

<400> 30767

His Arg Tyr Cys Asn Ser Thr Ser Arg Arg Ser Phe Gln Pro Arg Gly
 1 5 10 15
 Glu Asp Gly Glu Leu Thr Glu Gly Val Gly Phe Phe Ser Val Ser Tyr
 20 25 30
 Asn Pro Asp Asp Gly Arg Arg Ser Ser Ala Ser Val Ala Tyr Ile His
 35 40 45
 Pro Ile Leu Arg Gly Glu Glu Lys Arg Pro Asn Leu Thr Ile Leu Thr
 50 55 60
 Asn Ala Trp Val Ser Arg Val Asn Val Glu Gly Asp Thr Val Thr Gly
 65 70 75 80
 Val Asp Val Thr Leu Gln Ser Gly Val Lys His Thr Leu Arg Ala Lys
 85 90 95
 Lys Glu Thr Ile Leu Cys Ala Gly Ala Ile Asp Thr Pro Arg Leu Met
 100 105 110
 Leu Leu Ser Gly Leu Gly Pro Arg Glu Gln Leu Ser Ser Leu Gly Ile
 115 120 125
 Pro Val Ile Lys Asp Leu Pro Gly Val Gly Glu Asn Leu Leu Asp His
 130 135 140
 Pro Glu Thr Ile Ile Ile Trp Glu Leu Asn Arg Pro Val Pro Pro Asn
 145 150 155 160
 Gln Thr Thr Met Asp Ser Asp Ala Gly Ile Phe Leu Arg Arg Glu Ala
 165 170 175
 Pro Asn Ala Ala Gly Ser Asp Gly Arg Ala Ala Asp Ile Met Met His
 180 185 190

11745

Cys Tyr Gln Ile Pro Phe Cys Leu Asn Thr Ala Arg Leu Gly Tyr Glu
 195 200 205
 Thr Pro Val Asp Ala Phe Cys Met Thr Pro Asn Ile Pro Arg Pro Arg
 210 215 220
 Ser Arg Gly Arg Leu Tyr Leu Thr Ser Ala Asp Pro Ser Val Lys Pro
 225 230 235 240
 Ala Leu Asp Phe Arg Tyr Phe Thr Asp Pro Glu Gly Tyr Asp Ala Ala
 245 250 255
 Thr Ile Val Ala Gly Leu Lys Ala Ala Arg Arg Ile Ala Gln Gln Ala
 260 265 270
 Pro Phe Lys Asp Trp Ile Lys Arg Glu Val Ala Pro Gly Pro Lys Val
 275 280 285
 Gln Thr Asp Glu Glu Leu Ser Glu Tyr Gly Arg Arg Val Ala His Thr
 290 295 300
 Val Tyr His Pro Ala Gly Thr Thr Lys Met Gly Asp Ile Ser Arg Asp
 305 310 315 320
 Pro Met Ala Val Val Asp His Gln Leu Lys Val Arg Gly Leu Asn Asn
 325 330 335
 Val Arg Ile Ala Asp Ala Gly Val Phe Pro Glu Met Thr Thr Ile Asn
 340 345 350
 Pro Met Leu Thr Val Leu Ala Ile Gly Glu Arg Ala Ala Glu Leu Ile
 355 360 365
 Ala Glu Glu Ala Gly Trp Thr Arg Glu Gln Pro Lys Leu
 370 375 380

<210> 30768
 <211> 114
 <212> PRT
 <213> A.fumigatus

<400> 30768
 Glu Glu His Gln Ser Arg Arg Ile Asn Ser Thr Gly Thr Lys Asn Ser
 1 5 10 15
 Phe Leu Leu Gly Ser Gln Gly Val Phe Asp Thr Gly Leu Gln Ser His
 20 25 30
 Val Asn Thr Gly Asp Gly Val Ser Phe Asp Ile His Ala Arg His Pro
 35 40 45
 Arg Val Gly Lys Asn Ser Gln Val Gly Ala Leu Phe Leu Thr Ala Gln
 50 55 60
 Asp Arg Val Asp Val Cys His Thr Ser Thr Ala Ala Thr Ala Ile Ile
 65 70 75 80
 Trp Ile Val Arg Asp Arg Glu Glu Thr Asn Thr Leu Arg Gln Phe Thr
 85 90 95
 Val Phe Thr Thr Gly Leu Glu Gly Ser Thr Ala Gly Ala Ile Ala Ile
 100 105 110
 Ser Met

<210> 30769
 <211> 142
 <212> PRT
 <213> A.fumigatus

<400> 30769
 Ser Arg Arg Phe Ser Pro Thr Pro Gly Lys Ser Leu Met Thr Gly Ile
 1 5 10 15

11746

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Pro Arg Glu Leu Ser Cys Ser Arg Gly Pro Ser Pro Glu Arg Ser Ile
      20                25                30
Asn Leu Gly Val Ser Ile Ala Pro Ala Gln Arg Ile Val Ser Phe Leu
      35                40                45
Ala Arg Lys Val Cys Leu Thr Pro Asp Cys Arg Val Thr Ser Thr Pro
      50                55                60
Val Thr Val Ser Pro Ser Thr Phe Thr Arg Asp Thr His Ala Leu Val
      65                70                75                80
Arg Ile Val Lys Leu Gly Arg Phe Ser Ser Pro Arg Lys Ile Gly Trp
      85                90                95
Met Tyr Ala Thr Leu Ala Leu Leu Arg Arg Pro Ser Ser Gly Leu Tyr
      100               105               110
Glu Thr Glu Lys Lys Pro Thr Pro Ser Val Ser Ser Pro Ser Ser Pro
      115               120               125
Arg Gly Trp Lys Asp Arg Arg Leu Val Leu Leu Gln Tyr Arg
      130               135               140

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<210> 30770

<211> 130

<212> PRT

<213> A.fumigatus

<400> 30770

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Gln Lys Pro Met Lys Leu Cys Gly Phe Pro Asp Gly Val Tyr Asp Trp
1      5      10      15
Thr Asn Gly Glu Arg Ile Val Lys Thr Gly Ala Arg Leu Thr Leu Glu
      20      25      30
Gly Ser Asp Lys Ile Ala Gly Ser Ser Ala Thr Leu Ile Glu Cys Ile
      35      40      45
Asn Asn Phe Arg Arg Trp Ser Gly Ala Ser Ile Ala Asp Ala Ile Asn
      50      55      60
Ala Ala Thr Ala Thr Pro Ala Arg Leu Leu Gly Leu Gln Gly Val Lys
      65      70      75      80
Gly Ser Leu Asp Ser Gly Ala Asp Ala Asp Leu Val Val Leu Ser Glu
      85      90      95
Glu Asp Asp Pro Glu Ser Pro Thr Leu Thr Val Tyr Gln Val Trp Lys
      100     105     110
Arg Gly Val Lys Ile His Asp Ser Asp Lys Glu Ile Ala Ser Thr Thr
      115     120     125
Thr Val
      130

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<210> 30771

<211> 108

<212> PRT

<213> A.fumigatus

<400> 30771

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Val Ser Lys Asp Asn Leu Arg Ile Leu Ala Gly Tyr Thr Asp His Gln
1      5      10      15
Leu Pro Phe Asn Phe Leu Pro Gln His Lys Gln Thr Ser Glu Thr Leu
      20      25      30
His Arg Thr Arg Asp Val Asp Arg Phe Val Phe Ala Cys Leu Ile Arg
      35      40      45
Ile Ile Gly Ser Ser Ser Asp Asp His Met Ala Thr Ile Gly His Tyr
      50      55      60

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11747

Met Thr Lys Ser Gly Ser Asn Lys Thr Met Leu Gly Ile Asp Leu Trp
 65 70 75 80
 Ile Leu Ser Leu Gly Gln Ser Gly Ile Arg Ser Arg Gly Gly Thr Gly
 85 90 95
 Ala Val Arg Thr Ala Leu Val Gly Arg Leu Arg Arg
 100 105

<210> 30772

<211> 528

<212> PRT

<213> A.fumigatus

<400> 30772

Pro Arg Arg Ser Pro Leu Leu Phe Tyr Lys Leu Ser Ser Ser Met Ala
 1 5 10 15
 Ser Arg Ala Asn Ala Ser Ser Pro Thr Arg Gln Lys Asn His Glu Asp
 20 25 30
 Leu Ser Glu Thr Thr Ser Gly Ala Val Gly Glu Glu Gly Ala Val Thr
 35 40 45
 Arg Ala Pro Lys Ser Gly Met Glu Ser Ser Thr Gly Phe Glu Ser Glu
 50 55 60
 Asp Arg Val Tyr Pro Ile Arg Ser Val Ile Ser Val Asp Pro Ser Thr
 65 70 75 80
 Val Ser Gln Ser Gln Gln Gln Ala Glu Ser Asn Leu Ser Ser Pro Ala
 85 90 95
 Thr Gly Ala Arg Glu Trp Ser Ile Ile Asn Ala Glu Thr Trp Asp Lys
 100 105 110
 Met Arg Ala Gln Thr Lys Thr Ser Ala Gly Asn Phe Ser Ala Thr Glu
 115 120 125
 Pro Pro Pro Pro Ala Pro Asp Thr Ala Gly Ser Ser Ser Glu Pro Pro
 130 135 140
 Asp Gln Gly Arg Ser His Ser Ala Ser Pro Thr Pro Thr Pro Asp Ser
 145 150 155 160
 Ala Leu Thr Lys Thr Gln Asp Pro Glu Val Asp Ser Glu His Gly Leu
 165 170 175
 Val Thr Ala Arg Phe Arg His Val Val Thr Asp Gly Gly His Met Val
 180 185 190
 Ile Thr Gly Arg Ala Asn Asp Ser Tyr Gln Ala Cys Glu Asp Glu Pro
 195 200 205
 Ile His Ile Pro Gly Ala Val Gln Ser Phe Gly Cys Leu Leu Val Leu
 210 215 220
 Arg Glu Glu Ile Glu Gly Lys Leu Val Val Arg Val Ala Ser Glu Asn
 225 230 235 240
 Ser Glu Val Ile Leu Gly His Ser Pro Lys Cys Leu Phe Ala Leu Pro
 245 250 255
 Asn Phe Cys Asp Ile Leu Asp Glu Glu Gln Lys Asp Asn Leu Leu Asp
 260 265 270
 His Leu Asp Leu Ile Arg Asp Asp Gly Phe Asp Pro Ser Val Asp Gly
 275 280 285
 Pro Glu Val Phe Leu Leu Ser Val Lys Leu Pro Ser Gly Lys Pro Arg
 290 295 300
 Arg Phe Trp Cys Ala Thr His Leu Ser Pro Ala Asp Ser Asn Ser Ile
 305 310 315 320
 Ile Cys Glu Phe Glu Leu Glu Asp Asp Arg Ile Asn Pro Leu Ser Val
 325 330 335
 Ser Gly Leu Thr Thr Pro Val Thr Pro Thr Asp Thr Leu Gly Val Glu

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<210> 30773
<211> 77
<212> PRT
<213> A.fumigatus
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<210> 30774
<211> 282
<212> PRT
<213> A.fumigatus
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<400> 30774															
Leu	Phe	Gln	Phe	Val	Leu	Ser	Ala	Leu	Phe	His	His	Ile	Pro	Leu	Pro
1				5					10					15	
Val	Gln	Ser	Asn	Leu	Arg	Arg	Gln	Thr	Met	Asn	Thr	Ala	Ile	Ile	Thr
			20					25					30		
Gly	Ala	Ala	Gln	Gly	Val	Gly	Leu	Cys	Ile	Ala	Glu	Ala	Leu	Ala	Gln
		35					40					45			
Arg	Asn	Tyr	Arg	Ile	Val	Leu	Ser	Asp	Ile	Asp	Thr	Glu	Lys	Gly	Pro
	50					55					60				
Ala	Ala	Ala	Ser	Lys	Leu	Asn	Leu	Thr	His	Gly	Glu	Gly	Thr	Ala	Ala

11749

65					70					75				80	
Phe	Phe	His	Cys	Asp	Leu	Ser	Asn	Leu	Arg	Glu	Ile	Asp	Ala	Leu	Leu
				85					90					95	
Ser	Phe	Thr	Ile	Glu	Thr	Met	Gly	Gly	Phe	Ser	Val	Leu	Ile	Asn	Asn
			100					105					110		
Ala	Gly	Tyr	Leu	Arg	Ala	Pro	Phe	Leu	Ala	Leu	Ser	Ala	Gln	Asp	Ile
		115					120					125			
Gln	Asp	Met	Ile	Thr	Val	Asn	Leu	Thr	Ala	Pro	Ile	Tyr	Ala	Thr	Gln
	130					135					140				
Gln	Ala	Ile	Lys	Tyr	Trp	Asp	Gly	Leu	His	Gln	Gly	Gln	Ala	Gly	Cys
145					150					155					160
Val	Val	Ser	Val	Thr	Ser	Ser	Ser	Ser	Phe	Lys	Thr	Tyr	Ala	Ser	Ile
			165						170					175	
Ala	Pro	Tyr	Gly	Ala	Ala	Lys	Ala	Gly	Ala	Ala	Met	Phe	Thr	Phe	Ala
		180						185					190		
Ala	Gly	Ala	Phe	His	Pro	Arg	Val	Arg	Val	Asn	Ala	Val	Ala	Pro	Thr
	195						200					205			
Ala	Ile	Ala	Thr	Gly	Phe	Asp	Lys	Asn	Arg	Met	Arg	Val	Glu	Thr	Asp
	210					215					220				
Arg	Thr	Gly	Pro	Gly	Tyr	Thr	Pro	Glu	Glu	Glu	Met	Arg	Ala	Met	Gly
225					230					235					240
Leu	Lys	Arg	Leu	Gln	Pro	Gln	Glu	Val	Ala	Glu	Ala	Val	Val	Arg	Cys
			245						250					255	
Val	Glu	Asp	Lys	Gly	Leu	Tyr	Gly	Lys	Val	Leu	Tyr	Leu	Asp	Ala	Val
		260						265					270		
Glu	Gly	Ile	Lys	Ile	His	Asp	Gly	Tyr	Thr						
	275						280								

<210> 30775

<211> 149

<212> PRT

<213> A.fumigatus

<400> 30775

Ser	Ala	Leu	Pro	Ser	Ser	Pro	Val	Val	Lys	Met	Pro	Arg	Val	Ser	Phe
1				5					10					15	
Thr	Lys	Gly	Thr	Thr	Leu	Gln	Gly	His	Tyr	Ile	Pro	Pro	Gly	Thr	Glu
			20					25					30		
Ile	Ala	Phe	Asn	Leu	Ile	Ala	Met	Asn	Asn	Arg	Glu	Asp	Val	Trp	Glu
	35						40					45			
Glu	Pro	Glu	Arg	Phe	Leu	Pro	Asp	Arg	Phe	Leu	Lys	Asp	Ser	Asp	Leu
	50					55					60				
Lys	Arg	Ser	Val	Phe	Ala	Phe	Ser	Tyr	Gly	Thr	Arg	Ser	Cys	Ile	Gly
65					70					75				80	
Arg	His	Leu	Ala	Trp	Met	Glu	Met	Met	Thr	Ile	Leu	Ala	Asn	Leu	Leu
			85					90					95		
Lys	Asp	Tyr	Asp	Trp	Ser	Leu	Pro	Glu	Asp	Ser	Leu	Tyr	Gly	Pro	His
		100						105					110		
His	Val	Asp	Glu	Lys	Gly	Ile	Pro	Ile	Arg	Met	Pro	Ser	Lys	Cys	His
		115					120					125			
Ile	Val	Phe	Ala	Pro	Thr	His	Pro	Asp	Arg	Asp	Cys	Gln	Leu	Val	Ile
	130					135						140			
Ser	Arg	Pro	Lys	Thr											
145															

<210> 30776

11750

<211> 98
<212> PRT
<213> A.fumigatus

<400> 30776

Ser	Ser	Leu	Asn	Ile	Thr	Lys	Ile	Thr	Lys	Leu	Leu	Tyr	Val	Tyr	Pro
1				5					10					15	
Ser	Cys	Ile	Leu	Ile	Pro	Ser	Thr	Ala	Ser	Lys	Tyr	Arg	Thr	Phe	Pro
		20						25					30		
Tyr	Ser	Pro	Leu	Ser	Ser	Thr	His	Arg	Thr	Thr	Ala	Ser	Ala	Thr	Ser
		35				40						45			
Cys	Gly	Cys	Asn	Leu	Phe	Asn	Pro	Ile	Ala	Arg	Ile	Ser	Ser	Ser	Gly
	50					55					60				
Val	Tyr	Pro	Gly	Pro	Val	Arg	Ser	Val	Ser	Thr	Arg	Met	Arg	Phe	Leu
65					70					75					80
Ser	Lys	Pro	Val	Ala	Ile	Ala	Val	Gly	Ala	Thr	Ala	Phe	Thr	Leu	Thr
				85					90					95	

Arg Gly

<210> 30777
<211> 488
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (62), (79), (80), (438)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30777

Glu	Ser	Ser	Ala	Ile	Arg	Leu	Phe	Leu	Pro	Thr	Ser	Leu	Pro	Ser	Ile
1				5					10					15	
Phe	Arg	Ile	Leu	Ile	Ser	Leu	Phe	Pro	Phe	Thr	Thr	Leu	Cys	Ser	Ser
		20						25					30		
Leu	Val	Gly	Pro	Glu	Thr	Gln	Ser	Leu	His	Asp	Thr	Met	Ala	Val	Ala
		35				40						45			
Thr	Leu	Ile	Ser	Ile	Leu	Phe	Ala	Val	Leu	Ala	Leu	Arg	Xaa	Cys	Tyr
	50					55					60				
Leu	Leu	Ile	His	Ala	Leu	Phe	Leu	Ser	Pro	Leu	Arg	His	Ile	Xaa	Xaa
65				70						75					80
Pro	Phe	Met	Ala	Arg	Val	Thr	Ser	Lys	Arg	Pro	Leu	Trp	His	Leu	Leu
			85						90					95	
Thr	Gly	Lys	Ala	Glu	Ile	Ala	Ala	Arg	Gln	Asp	Tyr	Ser	Thr	Phe	Gly
		100						105					110		
Asp	Ile	Tyr	Leu	Cys	Lys	Pro	Asn	Thr	Val	Tyr	Leu	Cys	Asp	Pro	His
	115					120						125			
Asp	Ala	Cys	Thr	Val	Leu	Ser	Ser	His	Ala	Phe	Arg	Lys	Thr	Asp	Met
	130					135					140				
Tyr	Arg	Val	Phe	Glu	Tyr	Glu	Gly	Ile	Pro	Asn	Val	Ser	Thr	Phe	Thr
145				150						155					160
Asp	Pro	Ala	Gln	Ala	Gln	Arg	Arg	Arg	Arg	Gln	Leu	His	Pro	Phe	Phe
			165					170						175	
Asn	Asn	Ala	Tyr	Leu	Thr	Gln	Met	Glu	Pro	Val	Met	Leu	Lys	Tyr	Gly
			180					185					190		

Ile Gln Ala Leu Lys Ala Arg Trp Asp Ala Gln Leu Ala Arg His Lys

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      195              200              205
Lys Val Glu Val Asn Tyr Arg Phe Asp Thr Gln Leu Ala Met Phe Asp
      210              215              220
Ile Thr Gly Ala Leu Val Phe Gly Arg Glu Phe His Ala Leu Glu Thr
225              230              235              240
Ser Asn Leu Val Tyr Thr Lys Trp Val Asn Asn Thr Leu Ser Tyr Met
      245              250              255
Leu Val Ser His Tyr Phe Pro Trp Val Lys Arg Val Pro Leu Ser Trp
      260              265              270
Leu Val Arg Gly Leu Lys Gln Ser Tyr Asp Asp Leu Val Ala Phe Ser
      275              280              285
Gln Lys Ser Ile Ala Ile Arg Gln Ala Asp Leu Gln Ala Gly Arg Pro
      290              295              300
Lys Pro Ala Asp Leu Leu Gln Ala Leu Leu Asp Ala Glu Asp Pro Asp
305              310              315              320
Ser Lys Ala Pro Met Thr Ala Arg Glu Val Gln Ala Glu Ser Ile Ala
      325              330              335
Met Leu Val Gly Gly Ser Glu Ser Thr Ser Ser Val Ile Ser Trp Val
      340              345              350
Ile His Phe Leu Leu Leu Tyr Pro Glu His Leu Gln Ala Val Val Ala
      355              360              365
Glu Thr Arg Ala Asn Phe Pro Ala Asp His Thr Ile Thr Phe Asn Glu
      370              375              380
Ser Lys Ala Asn Leu Pro Tyr Leu Glu Ala Cys Ile Tyr Glu Thr Leu
385              390              395              400
Arg Cys Ile Pro Thr Ala Ser Thr Ser Phe Pro Arg Val Ser Asp Gln
      405              410              415
Ala Ile Ile Leu Lys Gly Tyr Tyr Ile Pro Ala Gly Thr Glu Ile Ala
      420              425              430
Thr Asn Lys Cys Ala Xaa His Leu His Gln Pro Ser Trp Gln Asp Pro
      435              440              445
Asp Arg Phe Tyr Pro Pro Arg Phe Leu Asn Gln Gly Asp Ile Pro Arg
      450              455              460
Asn Pro Ala Glu Tyr Ala Leu Arg Cys Leu Pro Asp Ala Gly Phe Asp
465              470              475              480
Leu Ala Gly Thr Trp Leu Gly Pro
      485

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<210> 30778

<211> 85

<212> PRT

<213> A.fumigatus

<400> 30778

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Ser Pro Pro Pro His Pro Ser Thr Gly Pro Ser His Thr Ala Pro Cys
1              5              10              15
Leu Pro His Ile Ala Pro Pro Leu Pro Pro Leu Leu Ala Ala Thr
      20              25              30
Ser Ser Thr Pro Leu Pro Ala Ser Leu Pro Arg Val Tyr Thr Leu Gly
      35              40              45
Pro Cys Gly Pro Ser Leu Pro Ala Cys Asp Ser Cys Gln Ser Pro Leu
      50              55              60
Gln Leu Arg Ser Ala Pro Pro His Ser Pro Ser Arg Val Asp Glu Thr
65              70              75              80
Pro Gln Pro Gln Arg
      85

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<210> 30779
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 30779
 Cys Arg Glu Arg Thr Leu Lys Val Tyr Ile Thr Arg Ile Asn Glu Leu
 1 5 10 15
 Ile Gln Pro Ala Gly Gln Phe Leu Gly Arg Lys Arg Gln Cys Leu Gln
 20 25 30
 Ile Phe Ser Asp Lys Tyr Ser Ala Ala Phe Pro Ser Pro Val Glu Arg
 35 40 45
 Asp Ser His Asn Ala Asn Ile Gly Lys Tyr Gln Ala Asn Glu
 50 55 60

<210> 30780
 <211> 312
 <212> PRT
 <213> A.fumigatus

<400> 30780
 Arg Gly Ser Trp Glu Asn Gln Glu Asn Pro Gly Arg Gly Leu Arg Gly
 1 5 10 15
 Arg Gln Arg Arg Arg Ala Leu Glu Pro Lys Ser Ala His Gly Gly Arg
 20 25 30
 Ile Tyr Thr Gly Ser Gly Met Ala Cys Ile Pro Gly Gln His Thr Val
 35 40 45
 Ala Pro Ser Ser Glu Phe Glu Thr Gly Ser Lys Leu Leu Ala Val Arg
 50 55 60
 Pro Ala Asn Arg Asn Lys Lys Pro Pro Pro Pro Pro Lys Ser His
 65 70 75 80
 His Gly Lys Leu Ile Asn Pro Ser Pro His Ala Thr Ser Ser Gln Pro
 85 90 95
 Gln Gly Val Pro Pro Arg Pro Thr Lys Arg Phe Ser Tyr His Gly Thr
 100 105 110
 Ser Ser Glu Thr Ser Leu Ser Leu Thr Pro Asp Thr Pro Pro Ser Arg
 115 120 125
 Ser Ser Gln Pro Arg Ile Asp Tyr Phe Thr Pro Leu His Asp Asn Pro
 130 135 140
 Ala Pro Gln Ser Ala Glu Thr Leu Arg Arg Ser Gln Ser Gln His Lys
 145 150 155 160
 Arg Pro Pro Thr Pro Pro Leu Ser Arg Arg His Ser Gln Met Arg Arg
 165 170 175
 Ser Lys Ser Thr Met Ser Arg Thr Asn Leu Ser Arg Leu Ser Met Pro
 180 185 190
 Ala Gly Lys Ile Glu Val Asn Ala Ser Pro Pro Ser Ser Pro Gly Pro
 195 200 205
 Gln Ala Gln Glu Pro Arg Thr Ala Pro Pro Met Ala Asp Glu Ala Glu
 210 215 220
 Pro Asp Pro Gly Gln Arg Glu Pro Pro Leu Ser Arg Arg Ala Ser Gln
 225 230 235 240
 Val Asn Pro Leu Pro Pro Pro Pro Pro Pro Arg Arg Asp Arg Val Ser
 245 250 255
 Ser Asn His Ser Asn Ser Arg Ser Gln Ser Ala Gln Lys Lys Gln Ala
 260 265 270

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Glu Asp Glu Asp Phe Ile Pro Arg Pro Ser Asn Ala Asn Asp Ile Leu
 275 280 285
 Ala Asp Leu Ser Arg Leu Gln Lys Glu Val Asp Asp Leu Arg Gly His
 290 295 300
 Tyr Glu Ser Arg Lys Val Ser His
 305 310

<210> 30781
 <211> 351
 <212> PRT
 <213> A.fumigatus

<400> 30781
 Val Tyr Ala Ser Ala Val Pro Ser Ser Arg Val Val Lys Met Leu Leu
 1 5 10 15
 Glu Thr Ser Ala Lys Pro Leu Thr Cys His Arg Val Pro Pro Ser Phe
 20 25 30
 Leu Val Gly Glu Gly Ala Thr Asp Phe Ala Tyr Glu Gln Gly Leu Val
 35 40 45
 Ile Leu Pro Pro Asp Gly Leu Ile Ser Arg Phe Ser Lys Glu Arg Trp
 50 55 60
 His Arg Trp Leu Gln Asp Leu Glu Ala Ala Glu Leu Val Glu Arg Lys
 65 70 75 80
 Arg Asp Pro Ser Arg Phe Arg Met Glu Glu Asp Arg Ala Ser Phe Leu
 85 90 95
 Arg Arg Pro Met Leu Asn Arg Asn Pro Ala Arg Leu Ile Asp Asn Thr
 100 105 110
 Arg Leu Arg Pro His Leu Pro Ser Ser Pro Phe Thr Gly Val Asp Leu
 115 120 125
 Leu Asn Pro Leu Pro Arg Leu Gln Ala Leu Gly Ser Arg Gln Thr Ile
 130 135 140
 Ala Pro Ala Pro Pro Ala Met Pro Ser Asn Gln Gly His Gly Met Gly
 145 150 155 160
 Pro Ala Ile Gly Gln Pro Met Ala Val Ala Gly Gly Gln Ser Met Ala
 165 170 175
 Ser Ala Pro Glu Gln Gly Met Ala Ala Ser Ala Asn Thr His Ala Asp
 180 185 190
 Gly Ala Thr Phe Arg Ala Cys Pro Thr Lys Ala Pro Cys Ala Pro Asp
 195 200 205
 Thr Ser Thr Thr Ala His Pro Gly Ala Ala Asp Glu Asp Glu Asp Met
 210 215 220
 Ile Ser Asp Thr Val Gly Ala Ile Ala Val Asp Cys Tyr Gly Asn Ile
 225 230 235 240
 Ala Ala Gly Ser Ser Ser Gly Gly Ile Gly Ala Lys His Arg Gly Arg
 245 250 255
 Ile Gly Pro Ala Ala Leu Val Gly Ile Gly Thr Tyr Val Ile Pro Val
 260 265 270
 Asp Pro Ser Asp Pro Glu Gln Val Ser Val Ala Ser Val Thr Ser Gly
 275 280 285
 Thr Gly Glu His Ile Ala Thr Thr Met Ala Ala Gln Thr Ser Ala Ala
 290 295 300
 Arg Leu Tyr Tyr Cys Gln Lys Lys Cys Lys Asp Gly Thr Phe Glu Ser
 305 310 315 320
 Val Ser Glu Asp Glu Ala Met Asn Ala Ile Ile Ala Thr Glu Phe Met
 325 330 335
 Gly Glu Leu Leu Tyr Ser Ile Phe Leu Thr Thr Ile Asp Arg Glu

340

345

350

<210> 30782
 <211> 75
 <212> PRT
 <213> A.fumigatus

<400> 30782
 Ile Ile Glu Gly Glu Glu Trp Lys Ile Ala Phe Arg Ile Lys Phe Arg
 1 5 10 15
 Tyr Phe Lys Tyr Leu Val Ile Leu Phe Arg Leu Ile Asn Ile Leu Val
 20 25 30
 Leu Phe Lys Arg Phe Ile Lys Lys Val Leu His Lys Val Leu His Tyr
 35 40 45
 Phe Ile Val Val Tyr Leu Asp Asn Ile Leu Ile Phe Leu Glu Asn Arg
 50 55 60
 Ser Lys Tyr Ile Glu Tyr Ile Lys Glu Val Leu
 65 70 75

<210> 30783
 <211> 227
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (126)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30783
 Glu Asp Asp Phe Pro Val Asp Val Arg Tyr Asn Gly Asn Asn Gln Gln
 1 5 10 15
 Phe Ala Pro Pro Gly Thr Ser Asp Gly Arg Pro Pro Ala Thr Ala
 20 25 30
 Leu Ser Glu Lys Glu Asp His Asp Gln Pro Gly Thr Gly Thr Ser Asn
 35 40 45
 Arg His Pro Ser Ile Leu Arg Lys Gly Met Asn Thr Ala Ala Ala Arg
 50 55 60
 Ala Arg Gly Glu Ser Ile Ser Arg Lys His Val Asp Phe Ser Leu Gly
 65 70 75 80
 Met Arg Asp Val Ser Ser Met Asp Val Met Gly Asp Val Phe Glu Gly
 85 90 95
 Arg Gly Arg Arg Val Asp Glu Val Val Arg Leu Ala Asn Arg Glu Asn
 100 105 110
 Asp Glu Arg Arg Ile Gln Glu Val Glu Glu Gly Glu Xaa Glu Arg
 115 120 125
 Arg Ser Arg Ala Ser Leu Ser Lys Thr Arg Thr Ser Asn Ser Gly Pro
 130 135 140
 Ser Val Arg Ala Ala Thr Gly Ser Asp Gly Arg Arg Ser Thr Asp Ser
 145 150 155 160
 His Gly Gly His Ser Ile Ser Ser Ile Ser Arg Ser Arg Phe Phe His
 165 170 175
 His Arg Thr His Pro Val Gln Glu Gln Glu Asp Met Met Glu Gln Gly
 180 185 190
 Arg Ser Asp Ile Gly Pro Ala Leu Ser Gln Ile Arg Thr Ile Ser Pro
 195 200 205

11755

Ser Ala Arg Ser Thr Asp Asp Arg Gly Ser Thr Ile Asn Arg Gln Pro
 210 215 220
 Thr Gly His
 225

<210> 30784
 <211> 71
 <212> PRT
 <213> A.fumigatus

<400> 30784
 Asp Arg Ser Gln Val Phe Leu Thr Val His Tyr Met Ala Arg His Cys
 1 5 10 15
 Ile Pro Ile Cys Phe Thr Met Ala His Leu Leu Cys Ile Thr Lys Asp
 20 25 30
 Leu Phe Gln Tyr Ala Ser Ser Leu Val Lys Leu Ser Ser Pro Ile Lys
 35 40 45
 Ser Val Thr Ser Ala Ser Pro His Leu Ile Phe Val Ser Leu Leu Leu
 50 55 60
 Phe Tyr Leu Ile Cys Gln Gly
 65 70

<210> 30785
 <211> 156
 <212> PRT
 <213> A.fumigatus

<400> 30785
 Leu Thr Gly Lys Arg Leu Thr Arg Gln Asp Val Thr Cys Gly Leu Leu
 1 5 10 15
 Ala Ile Phe Gln Tyr Gly Leu Leu Thr Ser Ala Arg Glu Ile Phe Asn
 20 25 30
 Pro Arg Phe Asn Leu Thr Ser Ala Leu Val Ser Gly Leu Phe Tyr Leu
 35 40 45
 Val Pro Gly Ala Gly Phe Leu Leu Gly Ser Ile Ile Gly Gly Arg Leu
 50 55 60
 Ser Asp Arg Thr Val Lys Arg Tyr Ile Ala Arg Arg Gly Gly Leu Arg
 65 70 75 80
 Leu Pro Gln Asp Arg Leu Asn Ser Gly Leu Ala Met Leu Cys Gly Val
 85 90 95
 Leu Pro Val Ala Val Leu Val Tyr Gly Trp Thr Leu Glu Lys Arg Ala
 100 105 110
 Gly Gly Met Ala Val Pro Ile Ile Ala Ala Phe Trp Ala Gly Val Gly
 115 120 125
 Leu Met Gly Ser Phe Asn Gly Leu Asn Thr Tyr Ala Ala Gly Glu Phe
 130 135 140
 Ser Met Gly Lys Val Lys Val Asn Val Lys Val Met
 145 150 155

<210> 30786
 <211> 168
 <212> PRT
 <213> A.fumigatus

<400> 30786
 Arg Ser Ala Asp Pro Ser Thr Ala Arg Gly Glu Asp Ser Pro Ala Gln

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1           5           10           15
Val His Asp Glu Gln Phe Ser Asp Pro Asp Tyr Gln Thr Ala Asn Ile
      20           25           30
Glu Leu Ala Arg Ile Val Gly Glu Thr Ile Ala Lys Leu Tyr Ser Arg
      35           40           45
Arg Lys Tyr Ser Glu Thr Phe Leu Gln Arg Val Gln Lys Leu Leu Lys
      50           55           60
Ala Leu Lys Asn Trp Val Asp Thr Leu Pro Asp His Leu Arg Leu Asn
      65           70           75           80
Glu Asn Asp Pro Glu Met Asn Pro Lys His Ile Ser Ser Leu His Leu
      85           90           95
Ala Phe Asn Gln Val Leu Tyr Leu Ala Ser Ser Phe Phe Glu Asn Asn
      100          105          110
Thr Asp Leu Asp Ser Val Leu Tyr Leu Pro Pro Val Arg Pro Ser Ser
      115          120          125
Thr Ser Ser Ser Lys Ser Ala Ser Pro Arg Pro Thr Pro Arg Ala Arg
      130          135          140
Thr Met Pro Ser His Asn Pro Ser Gly Arg Trp Val Lys Arg Ala Tyr
      145          150          155          160
Met Gln Leu Ala Thr Val Thr Pro
      165

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<210> 30787

<211> 466

<212> PRT

<213> A.fumigatus

<400> 30787

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Glu Gly Leu Leu Asp Arg Ala Gly Gly His Thr Lys Arg Gly His Ala
1           5           10           15
Pro Thr Ser Trp Arg Ser Leu His Phe Val Ser Glu Ser Arg Val Ser
      20           25           30
Ile Thr Glu Arg Phe Leu Gly Gly Phe Arg Asn Lys Gly Trp Thr Gly
      35           40           45
Lys Thr Gly Met Arg Ala Lys Ala Leu Phe Arg Leu Thr Asp Asp Trp
      50           55           60
Leu Asp Ile Thr Pro Thr Leu Ala Leu Arg Ser Asp Gln Val Glu Pro
      65           70           75           80
Asn Asp Glu Arg Ala Trp Gln Arg Asp Ile Ala Lys Phe Leu Lys Lys
      85           90           95
Ala Pro Ser Arg Val Arg Asp Thr His Arg Leu Arg Glu Thr Ala Val
      100          105          110
Ala Arg Ile Pro Ala Glu Ala Gly Asp Gly Tyr Phe Gln Val Val Leu
      115          120          125
Cys Gln Gly Pro Lys Lys Lys Val Leu Cys Thr Ser Pro Val Phe Arg
      130          135          140
Ile Leu Ser Thr Ser Leu Glu Pro Ser Ser Ile Arg Gly Ala Ser Leu
      145          150          155          160
Ala Thr Leu Pro Leu Glu Val Gly Ala Met Val Leu Gly Leu Tyr Ala
      165          170          175
Gln Thr Ala Ala Gln Thr Val Ile Asn Pro Ala Thr Ser Leu Val Gln
      180          185          190
Ser Thr Ile Gln Pro Leu Lys Pro Ser Trp Val Thr Gln Thr Ala Ala
      195          200          205
Glu Thr Ala Tyr Gly Ile Gly Met Ser Met Arg Ser Ser Asp Asp Asp
      210          215          220

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Ser Thr Gln Gly Pro Ala Ala Ala Met Ala Arg Gly Gln Gln Glu Ala
 225 230 235 240
 Ile Ser Leu Glu Thr Gly Pro Ser Pro Pro Tyr Pro Met Ser Phe Lys
 245 250 255
 Ala Arg Ala Glu Ala Ile Gln Gly Glu Ser Val Tyr Asp Met Gln Arg
 260 265 270
 Met Arg Leu Ser Lys Val Pro Asp Leu Ile Leu Asp Arg Leu His Gly
 275 280 285
 Phe Phe Phe Gly Trp Ala Arg Leu Leu Phe Ala Arg Glu Asn Gly Glu
 290 295 300
 Trp Thr Gly Ser Gln Trp Tyr Gln Ala Ile Leu Ala Ile Arg Asn Leu
 305 310 315 320
 Asp Leu Ser Gln Gln Thr His Val Asn Met Ser Gln Val Met Lys Arg
 325 330 335
 Val Thr Thr Val Arg Phe Leu Glu Glu Val Glu Leu Pro Val Gln Ser
 340 345 350
 Arg Val Glu Val Arg Val Leu Gly Phe Leu Arg Pro Asp Met Pro Pro
 355 360 365
 Pro Arg Gly Ile Thr Glu Glu Glu Leu Leu Glu Ala Arg Asn Ala Ala
 370 375 380
 Ala Glu Ala Ala Met Leu Ala Asp Ala Cys Asp Ala Ser Tyr Ala Gln
 385 390 395 400
 Asn Val Leu Asp His Pro Ala Trp Gly Pro Asp Ser Gln Arg Glu Ala
 405 410 415
 Gly Val Val Gly Arg Ala Lys Glu Gly Ile Glu Asn Ile Trp Ala Arg
 420 425 430
 Gly Gln Lys Val Val Glu Arg Val Pro Leu His Trp Leu Gly Val Arg
 435 440 445
 Ser Pro Thr Ala Glu Ile Phe Thr Thr Gly Leu Glu Ala Ser Ala Leu
 450 455 460
 Thr Asn
 465

<210> 30788

<211> 148

<212> PRT

<213> A.fumigatus

<400> 30788

Lys Arg Leu Arg Arg Val Cys Ala Thr His Ile Ala Cys Ala Arg Arg
 1 5 10 15
 Pro Ser His Gly Phe Leu Leu Arg Pro Ala Thr Gly Thr Phe Arg Leu
 20 25 30
 Tyr Phe Val Arg Ala Pro Lys Lys Arg Phe Phe Val Arg Val Gln Cys
 35 40 45
 Phe Ala Phe Phe Pro Pro Leu Leu Asn Arg Ala Arg Phe Gly Ala Leu
 50 55 60
 Val Trp Leu Pro Ser His Trp Arg Trp Val Arg Trp Cys Trp Gly Tyr
 65 70 75 80
 Thr Arg Arg Gln Arg Arg Arg Pro Leu Leu Thr Arg Pro His Arg Ser
 85 90 95
 Tyr Asn Gln Gln Phe Asn Leu Leu Ser Pro Pro Gly Ser His Arg Leu
 100 105 110
 Leu Leu Arg Gln Pro Thr Gly Leu Ala Cys Pro Cys Asp Gln Ala Met
 115 120 125
 Thr Thr Val Leu Arg Ala Leu Arg Gln Gln Trp Pro Ala Val Asn Arg

11758

130
Lys Arg Ser Leu
145

135

140

<210> 30789
<211> 113
<212> PRT
<213> A.fumigatus

<400> 30789
Gln Ser Met Gln Asn Thr Asn His Arg Leu Ala Tyr Leu Thr Leu Asn
1 5 10 15
Ser Thr Gly Phe Ile Val Thr Leu Gly Gly Gly His Thr Thr Ser Tyr
20 25 30
Thr Asn Pro Ala Ile Pro Gly Leu Asn Thr Ser Pro Leu Gly Gln Val
35 40 45
Phe Phe Ser Leu Leu Leu Ser Asp Leu Asn Leu Leu Leu Phe Thr Thr
50 55 60
Thr Thr Lys Leu Val Arg Pro Glu Leu Val Pro Gly Leu Glu Leu Gly
65 70 75 80
Ala Thr Met Leu Gly Asp Val Ala Phe Gly His Gly Cys Leu Gly His
85 90 95
Lys Arg Gly Glu Asn Lys Ala His Gln Arg Lys Trp Gly Ala Asn Leu
100 105 110
Arg

<210> 30790
<211> 101
<212> PRT
<213> A.fumigatus

<400> 30790
Lys Ser Lys Phe Asn Glu Met Val Asn Lys Ser Ala Ala Arg His Val
1 5 10 15
Ser Ile Thr Thr Ala Leu Ser Ser Ser Gly Leu Val Ser Val Ile Gly
20 25 30
Val Val Val Asp Val Phe Gly Thr Pro Phe Gln Ser Ser Arg Ser Trp
35 40 45
Cys Ile Thr Phe Thr Leu Lys Asp Thr Asp Phe Gly Asn Gly His Val
50 55 60
Trp Asp Gly Leu Lys Ile Lys Tyr Phe Lys Ala Asn Gln Ser Gln Leu
65 70 75 80
Pro Pro Val Arg Val His Asp Val Ile Leu Leu Arg Asn Ile Thr Val
85 90 95
Ser Asp Leu Ala Leu
100

<210> 30791
<211> 85
<212> PRT
<213> A.fumigatus

<400> 30791
Leu Asn Val Glu Leu Pro Glu Met Val Lys Gly Val Phe Ser Asp Gln
1 5 10 15

11759

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Ile Glu Ser Gln Ile Gln Ala Thr Thr Lys Phe Arg Lys Leu Leu Ser
      20                      25                      30
Lys Glu Arg Asn Pro Pro Ile Glu Arg Val Ile Glu Thr Gly Val Val
      35                      40                      45
Ser Arg Phe Val Glu Phe Leu Arg Ser Pro His Thr Leu Val Gln Phe
      50                      55                      60
Glu Ala Ala Trp Ala Leu Thr Asn Val Phe Thr Ser Gly Val Pro Asp
65                      70                      75                      80
Arg Ala Ser Leu Gln
      85

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<210> 30792
 <211> 182
 <212> PRT
 <213> A.fumigatus

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<400> 30792
Arg Leu Phe Cys Gln Glu Leu Ile Ser Lys Arg Leu Phe Ser Phe Pro
1      5                      10                      15
Pro Phe Ser Glu Ile Phe Pro Ser Ser Gln Ile Arg Ser Pro Leu Ser
      20                      25                      30
Leu Val Arg Phe Val Phe Thr Pro Leu Val Ser Gln Ala Thr Met Ala
      35                      40                      45
Glu Arg Tyr Ile Pro Glu His Arg Arg Thr Gln Phe Lys Ala Arg Asn
50                      55                      60
Gln Phe Arg Pro Asp Glu Leu Arg Arg Arg Arg Glu Glu Gln Gln Val
65                      70                      75                      80
Glu Ile Arg Lys Gln Lys Arg Glu Glu Asn Leu Ala Lys Arg Arg Gly
      85                      90                      95
Ile Gln Thr Arg Asp Gly Gly Ile Gly Val Gly Gly Gly Met Ala Ala
      100                      105                      110
Thr Glu Ser Asp Asp Glu Ala Ser Ala Ile Glu Ser Glu Val Cys Gln
      115                      120                      125
Pro Met Ile Cys Val Leu His Ala Leu Leu Ser Val Ser Ser Phe Leu
      130                      135                      140
Arg Pro Gln Thr His Pro Trp Ser Leu Phe Val Phe Val His Tyr Thr
145                      150                      155                      160
Leu His Asn Ser Leu Phe His Arg Pro Pro Pro Val Ala Gly Leu Ser
      165                      170                      175
Gly Ile Arg Arg Leu Ser
      180

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<210> 30793
 <211> 95
 <212> PRT
 <213> A.fumigatus

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<400> 30793
Asn Ala Gln Arg Trp Ile Phe Arg Pro Ala Trp Ser Lys Thr Thr Phe
1      5                      10                      15
Thr Gly Asp Gly Ser Ala Lys Asp Pro Asp Phe Gln Gly Ser Lys Phe
      20                      25                      30
Lys Val Ser Pro His Val Asp Gln Thr Ala Val Tyr Gln Ala Val Phe
      35                      40                      45
Gly Arg Leu Asn Ala Gly Gly Cys Val Gly Ile Phe Pro Glu Gly Gly
50                      55                      60

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11760

Ser His Asp Arg Pro Asn Leu Leu Pro Leu Lys Gly Ile Val Leu Ser
 65 70 75 80
 Phe Asp Leu Pro His Tyr Leu Arg Lys Pro Arg Leu Ile Glu Leu
 85 90 95

<210> 30794

<211> 397

<212> PRT

<213> A.fumigatus

<400> 30794

Val Ile Gln Ala Ala Arg Arg Leu Tyr Asn Thr Lys Gly Lys Asn Leu
 1 5 10 15
 Pro Leu Pro Met Val Val Glu Leu Asn Arg Arg Leu Val Lys Gly Tyr
 20 25 30
 Thr His Tyr Lys Asp Asp Pro Arg Val Ile His Leu Arg Lys Ala Val
 35 40 45
 Ala Asp Tyr Asn Lys Gln Leu Arg Leu Leu Gly Ile Arg Asp His Gln
 50 55 60
 Val Glu Tyr Ala Lys Phe Ser Trp Ile Gln Val Ile Ala Thr Leu Ile
 65 70 75 80
 Tyr Arg Leu Gly Lys Leu Ala Leu Leu Thr Ile Gly Thr Leu Pro Gly
 85 90 95
 Leu Ile Leu Phe Ala Pro Val Phe Ile Ala Thr Lys Tyr Ile Ser Lys
 100 105 110
 Lys Lys Ser Gln Glu Ala Leu Ala Ala Ser Thr Val Lys Leu Gln Gly
 115 120 125
 Arg Asp Val Met Ala Thr Trp Lys Leu Leu Val Ala Leu Ala Phe Ala
 130 135 140
 Pro Ala Val Tyr Ala Phe Tyr Thr Ala Thr Phe Thr Trp Trp Ala Tyr
 145 150 155 160
 Tyr Asn Arg Ile Gln Gly Leu Val Pro Val Trp Met Pro Leu Trp Leu
 165 170 175
 Ile Val Pro Ile Gly Met Ile Leu Phe Pro Thr Ile Thr Phe Ala Ala
 180 185 190
 Leu Arg Ile Gly Glu Val Gly Met Asp Ile Val Lys Ser Leu Arg Pro
 195 200 205
 Leu Val Leu Ser Leu Asn Pro Ser Ser Ala Asn Thr Leu Val Lys Leu
 210 215 220
 Arg Glu Arg Arg Ala Ala Leu Ala Gln Gln Val Thr Glu Val Ile Asn
 225 230 235 240
 Thr Leu Gly Pro Glu Leu Phe Pro Asp Phe Asp Ala Ala Arg Ile Val
 245 250 255
 Thr Asp Pro Phe Arg Glu Asp His Arg Pro Ala Gly Lys Thr Gly Val
 260 265 270
 Asp His Ser Ala Val Pro Glu Ile Arg Arg Thr Ser Ala Thr Asp Thr
 275 280 285
 Glu Val Glu Ser Pro Thr Arg Glu Pro Leu Pro Arg Asn Glu Ser Phe
 290 295 300
 His Asn Leu Ala Asn Ile Gly Phe Phe Ser Thr Arg Pro Ser Ser Arg
 305 310 315 320
 Ser Arg Ser Arg Ser Gly Ser Phe Gly Gly Arg Pro Gly Ser Ser Gly
 325 330 335
 Gln Gln Leu Lys Pro Leu Ser Gln Val Thr Thr Lys Asp Gly Phe Glu
 340 345 350
 Glu Val Ser Ser Lys Ile Arg Asp Ala Met Arg Glu Arg Gly Glu Arg

11761

	355					360					365								
Arg	Arg	Arg	Arg	Ser	Glu	Asp	Gly	Ser	Trp	Asp	Met	Ala	Ser	Ser	Gly				
	370						375					380							
Pro	Gly	Thr	Pro	Ser	Ser	Glu	Gly	Ser	Arg	Lys	Asp	Leu							
385					390					395									

<210> 30795
 <211> 119
 <212> PRT
 <213> A.fumigatus

<400> 30795

Thr	Leu	Ala	Gly	Val	Ala	Leu	Met	Ala	Leu	Gly	Thr	Leu	Ala	Asp	Asn				
1			5						10					15					
Pro	Asp	Cys	Gly	Leu	Lys	Ile	Val	Pro	Cys	Gly	Met	Asn	Tyr	Phe	His				
		20						25				30							
Ala	His	Lys	Phe	Arg	Ser	Arg	Ala	Val	Ile	Glu	Phe	Gly	Asn	Pro	Ile				
		35					40					45							
Glu	Val	Pro	Arg	Glu	Val	Val	Asp	Gln	Phe	Lys	Arg	Gly	Glu	Lys	Arg				
	50					55					60								
Glu	Ala	Val	Gly	Ala	Leu	Leu	Asp	Thr	Ile	Tyr	Gln	Gly	Leu	Val	Ser				
65					70					75					80				
Val	Thr	Val	Thr	Ser	Pro	Asp	Tyr	Glu	Thr	Leu	Met	Val	Gly	Glu	Pro				
				85					90					95					
Ala	Phe	Phe	Gly	Pro	Trp	Tyr	Leu	Trp	Thr	Asp	Val	Phe	Leu	Gly	Asp				
			100					105					110						
Ser	Ser	Arg	Ser	Ser	Pro	Ile													
			115																

<210> 30796
 <211> 179
 <212> PRT
 <213> A.fumigatus

<400> 30796

Ser	Ala	Phe	Pro	Ser	Ser	Pro	Val	Val	Lys	Thr	Val	Tyr	Pro	Glu	Asn				
1				5					10					15					
Ser	Gln	Tyr	Pro	Leu	Gln	Gly	Glu	Ser	Ala	Ser	Ala	Lys	Pro	Gly	Asp				
		20						25				30							
His	Ile	Thr	Met	His	Cys	Lys	Gln	Gln	Arg	His	Ile	Ser	Ser	Arg	Pro				
		35					40					45							
Trp	Thr	Cys	Arg	Ser	Asn	His	Pro	Ser	Asp	Lys	Tyr	Asp	Asp	Ser	Ser				
	50					55					60								
Arg	Asn	Tyr	Thr	Gln	Thr	Leu	Ser	Val	Asn	Gly	Gln	Val	Val	Ser	Thr				
65					70					75					80				
Leu	Ser	Thr	Ser	Asp	Gly	Tyr	Ala	Gln	Gly	Trp	Gly	Ser	Ala	Val	Glu				
				85					90					95					
Cys	Ala	Ala	Thr	Asp	Cys	Gly	Thr	Val	Gly	Ala	His	Cys	Lys	Leu	Thr				
			100					105				110							
Arg	Gln	Leu	Ala	Val	Gln	Asn	His	Gly	Leu	Thr	Cys	Thr	Val	Leu	Leu				
		115					120					125							
Ala	Trp	Ile	Asp	Thr	Lys	Ile	Ile	Leu	Asp	Ser	Pro	Asp	Pro	Asn	Tyr				
	130					135					140								
Lys	Asn	Thr	Asn	Tyr	Lys	Gly	Gln	Gly	Val	Thr	Gly	Glu	Met	Ser	Thr				
145					150					155					160				
Ser	Asp	Gly	Gly	Lys	Thr	Trp	Thr	Val	Ser	Thr	Ile	Asn	Ile	Pro	Gln				

165 170 175
 Phe Thr Phe

 <210> 30797
 <211> 66
 <212> PRT
 <213> A.fumigatus

 <400> 30797
 Arg Glu Thr Ala Thr Ser Gln Ser Ile Arg Gly Ile Leu Arg Arg Leu
 1 5 10 15
 Ser Asp Gly Gln Glu Gly Ile Gly Ala Leu Leu Phe Gln Gly Gln Val
 20 25 30
 Lys Asp Tyr Glu Ala Phe Leu Asn Ala Thr Ser Ser Tyr Asp Ile Val
 35 40 45
 Ile His Gly Ala Ala Lys Ile Arg Gly Arg His Arg Tyr Arg Tyr Gln
 50 55 60
 His Thr
 65

 <210> 30798
 <211> 64
 <212> PRT
 <213> A.fumigatus

 <400> 30798
 Leu Arg Phe Leu Met Asn Ser Ile Gly Tyr His Ser Val Phe Tyr Leu
 1 5 10 15
 Ala Ser Gln Leu Ser Gly Phe Cys Ser Gly Asp His Phe Leu Arg Glu
 20 25 30
 His Ile Leu Leu Arg Ile Lys Lys Tyr Ser Lys Gly Gly Leu Asp Val
 35 40 45
 Arg Tyr Thr Asp Lys Cys Ser Lys Ser Ser Leu Leu Met Leu Glu Tyr
 50 55 60

 <210> 30799
 <211> 265
 <212> PRT
 <213> A.fumigatus

 <400> 30799
 Ser Phe Ile Asp Tyr Ser Ser Ile Cys Cys Phe Val Gly Thr Asn Arg
 1 5 10 15
 Gly Asn Leu Ala Thr Phe Lys Ile Leu Pro Gly Asp Asp Gly Ala Tyr
 20 25 30
 Met Gly Gln Phe Ala Gly Val Thr Gln Leu Asp Asp Lys Val Leu Asn
 35 40 45
 Ile Ile Pro Ile Asp Ala Asp Gln Gly Thr Pro Ala Leu Ala Thr Ala
 50 55 60
 Ser Ile Val Ala Gly Leu Arg Thr Gly Ala Lys Leu Asn Gly Val Val
 65 70 75 80
 Ile Ala Val Thr Val Ser Gly Cys Arg Ile Phe Lys Pro Ala Thr Ser
 85 90 95
 Lys Gly Ala His Lys Ser Trp Asp Asp Tyr Leu Cys Asp Ala Ala Ala
 100 105 110

11763

Val Val Lys Thr Glu Gly Arg Gly Tyr Ser Leu Val Gly Leu Phe Gly
 115 120 125
 Asp Gly Asn Ala Arg Ala Phe Ser Ile Pro Gly Leu Lys Glu Ile Gly
 130 135 140
 Cys Thr Ser Ile His Gln Ile Ala Asp Met Arg Arg Leu Ser Asp Ser
 145 150 155 160
 Thr Val Cys Pro Asp Gly Ser Val Leu Thr Trp Thr Gly Pro Ser Glu
 165 170 175
 Val Ala Val Phe Ser Val Trp Gly Ser Gly Thr Gly Leu Tyr Gly Pro
 180 185 190
 Leu Ser Leu Asp Pro Val Phe Val Gln Arg Lys Glu Arg Pro Ala Asn
 195 200 205
 Lys His Asp Arg Arg Ser Ser Asp Cys Arg Leu Phe Asn Pro Gln Ala
 210 215 220
 Ala Ile Pro Ala Arg Pro Thr Ile Thr Asn Leu Gln Trp Ile Ser Gly
 225 230 235 240
 Thr Gln Tyr Val Ser Pro Ala Asp Met Asp Leu Leu Ser Met Cys Ile
 245 250 255
 Arg Cys Ser Cys Asp Asn Lys Ser Arg
 260 265

<210> 30800
 <211> 99
 <212> PRT
 <213> A.fumigatus

<400> 30800
 Ile Cys Asn Arg Gly Pro Gly Thr Ala Val Lys His Ser His Val Gly
 1 5 10 15
 Phe Val Ala Ala Gly Phe Gln Asn Gly Ser Phe Val Ile Met Asp Leu
 20 25 30
 Arg Gly Pro Ala Val Ile His Thr Ala Gln Val Ser Asp Phe Ala Lys
 35 40 45
 Thr Ser Lys Arg Gly Ser Phe Leu Lys His Arg Ala Thr Glu Ser Thr
 50 55 60
 Ala Pro Glu Trp Pro Thr Ser Ile Glu Phe Gly Val Leu Thr Leu Glu
 65 70 75 80
 Gly Glu Gly Lys Ile Tyr Pro Leu Glu Leu Trp Val Gln Ala Asp Thr
 85 90 95
 Asp Arg Leu

<210> 30801
 <211> 276
 <212> PRT
 <213> A.fumigatus

<400> 30801
 Ser Met Ser Cys Gly Gly Val Val Lys Thr Glu Ser Asp Gly Leu Tyr
 1 5 10 15
 Lys Arg Asn Ile Lys Ala Leu Ile Leu Gln Thr Tyr Arg His Glu Gln
 20 25 30
 Asp Gly Gln Gly Gln Ala Ala Ser Glu Lys Ser His Ala Glu Ala Glu
 35 40 45
 Phe Gly Phe Asp Gly Arg Val Glu Leu Leu Ile Thr Arg Thr Arg Ser
 50 55 60

11764

Arg Lys Ile Thr Phe Ile Glu Pro Val Ala Arg Leu Gly Phe Gly Leu
 65 70 75 80
 Ala Val Arg Ser Ala Leu Arg Val Val Glu Thr Pro Tyr Val Trp Val
 85 90 95
 Gln Gln His Asp Trp Ala Leu Glu Ala Asp Ile Pro Leu Glu Pro Leu
 100 105 110
 Leu Glu Ile Met Gln Gly Ser Glu Ala Asp Asp Ala Val Pro Val Lys
 115 120 125
 Tyr Val Ser Phe Pro Ser Val Arg Met Lys Arg Tyr Ala Val Ser Pro
 130 135 140
 His Val Thr Asp His Ala Ala Leu Arg Glu Leu Thr Thr Ser Leu Lys
 145 150 155 160
 Arg Asp Phe Val Val Arg Ser Pro Ser Arg Pro Glu Arg Lys Ile Ala
 165 170 175
 Leu Thr Pro Leu Phe Phe Trp Phe Asp Lys Pro His Val Ala Ser Thr
 180 185 190
 Ala His Tyr Leu Ala Arg Val Phe Pro Thr Pro Leu Ala Met Arg Arg
 195 200 205
 Gly Glu Phe Ile Glu Asp Lys Ile Gly Gln Arg Ala Arg Ala Gln Met
 210 215 220
 Lys Glu Gly Gln Trp Ala Lys Trp Ala Thr Trp Leu Tyr Tyr Pro Asp
 225 230 235 240
 Glu Gly Asp Leu Leu Cys Leu Arg His Leu Met Gly Arg Thr Trp Arg
 245 250 255
 Gly Phe Gly Gly Pro Ile Asn Val Lys Asp Gly Phe His Ile Ala Thr
 260 265 270
 Asp Asp Glu Ser
 275

<210> 30802

<211> 89

<212> PRT

<213> A.fumigatus

<400> 30802

Ile Cys Arg Gly Tyr Ser Ala His Glu His Thr Val Leu Tyr Ser Asn
 1 5 10 15
 Val Arg Leu Ser Ser Ala Ser Thr Ala Leu Pro His Asp Ile Val Ile
 20 25 30
 Glu Ala Leu Val Ser Leu Val Ile Val Ser Ala Gly Leu Val Leu Gly
 35 40 45
 Ala Glu Lys Leu Lys Pro Ile Ser Trp Ser Glu Trp Ala Gly Glu Ile
 50 55 60
 Glu Arg Glu Gly Gly Ala Arg Asn Pro Tyr Leu Arg Leu Glu Glu Arg
 65 70 75 80
 Tyr Ser Phe Trp Asp Ile Arg Val Ser
 85

<210> 30803

<211> 66

<212> PRT

<213> A.fumigatus

<400> 30803

Thr Tyr Thr Ser Trp Leu Ala Arg Val Tyr Ala Val Gly Glu Leu Phe
 1 5 10 15

11765

Ala Tyr Gly Ala Ile Asn Asp Ser Arg Arg Thr Thr Asn Leu Ala Gly
 20 25 30
 Lys Ser Glu Lys Trp Thr Val Arg Val Ser His Glu Ser Asp Leu Asp
 35 40 45
 Asn Leu Cys Ser Ala Gln Pro Cys Ala Ser Gly Lys Pro Pro Ala Lys
 50 55 60
 Gly Thr
 65

<210> 30804

<211> 184

<212> PRT

<213> A.fumigatus

<400> 30804

Asn Leu Ala Cys Cys His Ser Arg Pro Ser Val Leu Gln Leu Pro Pro
 1 5 10 15
 Ser Val Ile Thr Pro Glu Pro Arg Ser Thr Ile Asn Thr His Leu Leu
 20 25 30
 Gly Val Ile Ile Tyr Phe Arg Asp Ala Met Asn Ser Arg Glu His Ser
 35 40 45
 Asp Met Pro Pro Ala Thr Ser Tyr Pro Ser Pro Asn Ala Ala Gln Met
 50 55 60
 Ala Gln Gly Ser Met Pro Tyr Tyr Gly Asn Arg Gln Leu Thr Ala Asp
 65 70 75 80
 Glu Leu Leu Ser Ala Glu Leu Ser Arg Glu Thr Ser Gly Pro Gly Leu
 85 90 95
 Asn Asp Gly Ser Ser Asn Gly Val His His Gly Gln Ser Met Val Met
 100 105 110
 Gly Ser Ser Asn Pro Gly Ala Thr Asp Met Gly Arg Pro Ser Ser Pro
 115 120 125
 Asp Gln His Gln Gln His Met Leu Gln Phe Thr Pro Gly Gln Gln Val
 130 135 140
 Gly Val Asp Pro Asn His Asp Leu Ser Tyr Gly Asp Gln Ser Ala Arg
 145 150 155 160
 Arg Lys Arg Ser Lys Ile Ser Arg Ala Cys Asp Glu Cys Arg Arg Lys
 165 170 175
 Lys Val Gly Val Leu Tyr Leu Ile
 180

<210> 30805

<211> 141

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (52)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30805

His Gln Leu Phe Leu Ala Tyr Ser Ser Phe Leu Val Glu Met Val Thr
 1 5 10 15
 Leu Ala Ala Met Glu His Asn Val Cys Gln Ser Asn Thr Gly Leu Gly
 20 25 30
 Arg Met Ile Gly Ala Asn Leu Val Ala Ser Leu Glu Arg Leu Gly Gln

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<210> 30806
<211> 208
<212> PRT
<213> A.fumigatus
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<210> 30807
<211> 195
<212> PRT
<213> A.fumigatus
```

```
<400> 30807
Gln Arg Val Arg Ser Ala Ala Pro Ser Ala Thr Arg His Val Gly Thr
1          5          10          15
Lys Leu Leu Thr Trp Val Ile Ser Tyr Ile Lys Glu Leu Ala Glu Arg
```

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<210> 30808
<211> 128
<212> PRT
<213> A.fumigatus
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```
<210> 30809
<211> 81
<212> PRT
<213> A.fumigatus
```

```

<400> 30809
Arg Pro Thr Phe Thr Met Phe Ala Asp Ile Pro Ala His Thr Tyr Gln
1          5          10          15
Ala Thr Phe Glu Pro Asn Lys Glu Trp Ser Thr Phe Tyr Ala Ala Ala

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<210> 30810
<211> 69
<212> PRT
<213> A.fumigatus
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<210> 30811
<211> 251
<212> PRT
<213> A.fumigatus
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<400> 30811																
Val	Leu	Leu	Val	Glu	Asp	Ala	Val	Ser	Ile	Gly	Ser	Asn	Ala	Arg	Ala	
1				5					10					15		
Glu	Ile	Glu	Leu	Glu	Leu	Gln	Ser	Val	His	Gly	Val	Thr	Leu	Leu	Gly	
			20					25					30			
Thr	Pro	Glu	Gln	Ile	Gly	Ala	Arg	Glu	Val	Phe	Leu	Gln	Asn	Met	Lys	
		35				40						45				
Arg	Arg	Leu	Ser	Arg	Lys	Pro	Glu	Met	Cys	Glu	Asp	Leu	Ile	Pro	Ser	
	50					55					60					
Phe	Pro	Pro	Val	Cys	Arg	Arg	Leu	Thr	Pro	Gly	Pro	Gly	Tyr	Leu	Glu	
65					70					75					80	
Ala	Leu	Thr	Asp	Asp	Lys	Val	Asp	Val	Ile	Thr	Ser	Lys	Ile	Ile	Arg	
			85						90					95		
Val	Asp	Ala	Glu	Gly	Ile	Ile	Thr	Ala	Asp	Gly	Gln	His	His	Pro	Thr	
			100					105					110			
Asp	Val	Leu	Val	Cys	Ala	Thr	Gly	Phe	Asp	Thr	Thr	Phe	Asn	Pro	Arg	
		115				120						125				
Phe	Pro	Val	Ile	Gly	Arg	Asn	Gly	Val	Thr	Leu	Ala	Asn	Arg	Trp	Gln	
	130					135					140					
Lys	Thr	Pro	Glu	Thr	Tyr	Leu	Ser	Leu	Ala	Val	Asp	Gly	Phe	Pro	Asn	
145					150					155					160	
Tyr	Phe	Ile	Cys	Leu	Gly	Pro	Asn	Ala	Ala	Leu	Gly	Glu	Gly	Asn	Leu	
			165						170					175		
Leu	Leu	Leu	Ile	Glu	Lys	Glu	Ile	Asp	Tyr	Phe	Thr	Leu	Cys	Val	Gln	

```
<210> 30812
<211> 69
<212> PRT
<213> A.fumigatus
```

```
<210> 30813
<211> 84
<212> PRT
<213> A.fumigatus
```

[illegible]

```
<210> 30814
<211> 143
<212> PRT
<213> A.fumigatus
```

11770

<400> 30814

```

Ser Ser Ser Asn Ile Leu Gly Met Lys Ala Arg Asp Asp Ala Asn Gly
1      5      10      15
Thr Cys Thr Gly Pro Arg Met Arg Leu Tyr Val Thr Met Ser Phe Ala
20      25      30
Glu Thr Glu Ser Tyr Gln Leu Thr Cys Asn Gln Gln Leu Leu Tyr Met
35      40      45
Asn Tyr Thr Gly Val Val Thr Met Gly Pro Ala Glu Gln Ala Val Phe
50      55      60
Ser Gly Asn Ala Glu Asp Gly Ala Thr Pro Phe Gly Asn Ser Phe Thr
65      70      75      80
His Phe Thr Phe Glu Val Arg Ser His Pro Ala Tyr Tyr Leu Thr Phe
85      90      95
Gln Asn Leu Thr Gly Leu Gln Thr Gly Asp Glu Arg Tyr Lys Glu Phe
100     105     110
Glu Asn Arg Val Phe Val Gly Gln Gly Arg Phe Arg Val Glu Lys Gly
115     120     125
Lys Pro Val Val Val Glu Tyr Lys Val Ser Gln Val Val Lys Gly
130     135     140

```

<210> 30815

<211> 62

<212> PRT

<213> A.fumigatus

<400> 30815

```

Pro Lys Pro Met Thr Gly Gly Thr Val Lys Ser Asp Pro Gly Tyr Pro
1      5      10      15
Leu Ala Leu Asp Ala Glu Phe Val Gly Thr Gly Asn Asp Tyr Ile His
20      25      30
Ala Asp Pro Asp Asn Lys His Leu Arg Leu Asn Ala His Gly Val Ile
35      40      45
Lys Leu Val Phe Phe Glu Tyr Ser Gly Asn Glu Ser Thr Arg
50      55      60

```

<210> 30816

<211> 66

<212> PRT

<213> A.fumigatus

<400> 30816

```

Met Phe Lys Asn Lys Leu Gln Phe Gln Gly Thr Tyr Pro Glu Val Asn
1      5      10      15
Leu Lys Val Pro Ala Thr Thr Lys Leu Pro Val Ala Asp Leu Glu Ser
20      25      30
Asn Gly His Leu Ile Asn Pro Met Gln Cys Leu Met Gly Pro Phe Ser
35      40      45
Pro Met Cys Pro Glu Leu Asp Val Val Asn Arg Pro Arg Leu Gly Thr
50      55      60
Asn Gln
65

```

<210> 30817

<211> 85

<212> PRT

<213> A.fumigatus

<400> 30817

Leu His Val Pro Gly Arg Arg Arg Ile Phe Thr Ala Leu Thr Asp Ala
 1 5 10 15
 Ala Cys Ile Gln Glu Ser Ser Asn Gly Ser Thr Phe Glu Leu Gly Val
 20 25 30
 Phe Glu Tyr Ile Lys Cys Met Ala Lys Val Ala Leu Thr Leu Asp Asp
 35 40 45
 Leu Ala Asp Leu Ile Phe Asp Asn Asn Gly Leu Thr Leu Leu Asp Ser
 50 55 60
 Glu Ser Ala Leu Ala Asp Glu Tyr Ser Val Leu Glu Leu Leu Val Ala
 65 70 75 80
 Leu Ile Thr Gly Leu
 85

<210> 30818

<211> 108

<212> PRT

<213> A.fumigatus

<400> 30818

Ile Gly Pro Arg Ser Pro Gly Gly Gly Arg Tyr Glu His Cys Ile Trp
 1 5 10 15
 Ala Leu Gly Thr Gly Trp Ala Val Ser Ala Asn Ser Phe Phe Ala Val
 20 25 30
 Arg Lys Leu Ser Glu Ala Leu Ala Gln Val Lys Asp Glu Gln Ser Tyr
 35 40 45
 Ile Val Val Arg Glu Arg Val His Arg Asn Thr Ala Glu Ser Thr Asn
 50 55 60
 Ala Arg Val Lys Trp Trp Ser Ile Phe Gln Leu Ala Val Leu Ile Gly
 65 70 75 80
 Glu Gly Ile Phe Gln Val Trp Trp Leu Lys Arg Phe Phe Glu Val Gly
 85 90 95
 Val Thr Ile Pro Asn Arg Pro Val Lys Ser Cys Asn
 100 105

<210> 30819

<211> 107

<212> PRT

<213> A.fumigatus

<400> 30819

Leu Ser Ala Ala Leu Gln Val Glu Asp Pro Leu Lys Asn Arg Gln Tyr
 1 5 10 15
 Phe Arg Gln Ala Val Ser Ser Glu Asp Tyr Ser Phe Thr Ala His Ala
 20 25 30
 Asp Gly Lys Tyr Val Tyr Cys Phe Ser Asn Glu Gly Trp Thr Ser Asn
 35 40 45
 Ser Lys Glu Val Ser Phe Asn Val His Gly Ile Val Tyr Val Pro Glu
 50 55 60
 His Glu Leu Ala Gln Asp Pro Leu Glu Val Glu Gly Met Ser Ile Ala
 65 70 75 80
 Tyr Gly His Trp Val Arg Ala Gly Arg Cys Gln Leu Thr Ala Ser Leu
 85 90 95
 Gln Cys Val Asn Ser Pro Arg Leu Trp Leu Arg
 100 105

<210> 30820
 <211> 213
 <212> PRT
 <213> A.fumigatus

<400> 30820
 Leu Ser Ser Gly Arg Thr Arg Thr Asp Leu Arg Leu Cys Ile Thr Asn
 1 5 10 15
 Thr Cys Arg Phe Val Val His Thr Leu Glu Lys Thr Asp Leu Pro Ala
 20 25 30
 Lys His Cys Pro Pro Ser Ser Pro Ile Arg Pro Thr Gly Val Tyr Phe
 35 40 45
 Thr Arg Pro Phe Ser Ser Val Ser Leu Ala Gln Ser Pro Ile Ser Asp
 50 55 60
 Leu Ser Thr Met Ala Asp Ser Ser Thr Pro Ser Gln Pro Ser Ala Pro
 65 70 75 80
 Pro Ser Ser Gln Pro Pro Pro Ser Ser Gln Ile Gly Ser Gln Glu Leu
 85 90 95
 Pro Ser Ser Ser Thr Gln Ala Thr Val Pro Gly Glu Leu Ser Gly Thr
 100 105 110
 Ser Glu Pro Pro Val Val Pro Lys Glu Glu Pro Asn Thr Thr Asp Val
 115 120 125
 Glu Ala Leu Asp Ala Ser Ile Glu Gln Asp Ile Asp Met Asn Pro Gly
 130 135 140
 Gly Ile Thr Asn Ala Ala Gly Ala Ser Asp Gly Asp Asn Thr Ile Gly
 145 150 155 160
 Asn Pro Val Gln Asp Ala Met Pro Thr Ser Val Asp Ala Ile Ala Ala
 165 170 175
 Ala Val Ala Pro Ser Lys Lys Glu Thr Ser Leu Arg Glu Phe Leu Gly
 180 185 190
 Lys Met Asp Asp Tyr Ala Pro Ile Val Gly Leu Thr Phe Val Ile Phe
 195 200 205
 Leu Leu Pro Tyr Phe
 210

<210> 30821
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 30821
 Ala Val Pro Ile Thr Leu Pro Cys His Asn Val Ala Arg Arg Lys Arg
 1 5 10 15
 Gln Met Ser Ile Gln Gln Gln Gln Asn Thr Ile Glu Arg Lys Pro His
 20 25 30
 Thr Pro Ile Arg Ile Thr Tyr Met Phe Leu Asp Trp Leu Tyr Val Asn
 35 40 45
 Arg Leu Arg Val Leu Pro Asn Ala Asn Gly Gln Leu Leu Arg Leu Leu
 50 55 60
 Leu Cys Asn Cys Trp Asp Ile Ser Gln
 65 70

<210> 30822
 <211> 157
 <212> PRT

<213> A.fumigatus

<400> 30822

```

Ile Pro Asp Ala Val Thr Ala His Tyr Leu Thr Leu Ala Gly Leu Pro
1          5          10          15
Pro Pro Gly Asn Gly Pro Asn Gln Thr Pro Pro His Leu Ala Arg Leu
          20          25          30
Leu Ala Leu Ala Thr Gln Lys Phe Ile Ala Asp Ile Ala Ala Asp Ser
          35          40          45
Tyr Gln Tyr Ala Arg Ile Arg Ala Ser Asn Ser Thr Ser Ala Ser Asn
          50          55          60
Pro Met Gly Ser Leu Asn Ala Ala Ser Gly Leu Asn Met Pro Gly Gly
65          70          75          80
Ala Gly Ser Gly Ala Ser Arg Arg Arg Ser Arg Arg Trp Trp Arg Arg
          85          90          95
Arg Arg Gln Arg Gln Ser Glu His Thr Ser Gly His Ser Ala Ser Trp
          100          105          110
Phe Trp Arg Trp Trp Leu Arg Trp Leu Trp Ala Arg Ser Asp Gly Ala
          115          120          125
His His Gly Arg Leu Gly His Gly Cys Cys Arg Val Trp Ser Gln Arg
          130          135          140
Gln Glu Arg Gly Val Leu Pro Val Glu Lys Ala Gly Ser
145          150          155

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<210> 30823

<211> 76

<212> PRT

<213> A.fumigatus

<400> 30823

```

Ile Cys Pro Ala Val Leu Asp Pro Ala Pro Ala Gly Gly Ala Ala Gly
1          5          10          15
Val Gly Gly Gly Asp Ala Gly Lys Gly Lys Ala Asn Thr His Leu Gly
          20          25          30
Ile Gln Arg Pro Gly Phe Gly Gly Gly Gly Ser Gly Gly Ser Gly Gln
          35          40          45
Gly Arg Thr Val Leu Thr Met Glu Asp Leu Gly Met Ala Val Ala Glu
          50          55          60
Tyr Gly Val Ser Val Lys Arg Gly Glu Phe Tyr Arg
65          70          75

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<210> 30824

<211> 206

<212> PRT

<213> A.fumigatus

<400> 30824

```

Leu Arg His His Glu Pro Asn Asn Ile Lys Pro His Thr Pro Arg Thr
1          5          10          15
Leu Thr Ser His Ile Ser Phe Lys Thr Thr Val Ala Asn Leu Thr Met
          20          25          30
Lys Val Phe Ser Ser Ile Leu Val Leu Leu Phe Ala Ile Phe His Leu
          35          40          45
Cys Leu Ala Glu Asp His Pro Asp Arg Phe Pro Asp Gln Lys Gln Val
          50          55          60
Asp Lys Asp Asn Tyr Glu Ala Val Thr Leu Ala Ala Ala Gln Lys Gly

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11774

65		70		75		80									
Val	Gln	Leu	Glu	His	Gly	Lys	Arg	Tyr	Ala	Phe	Arg	Glu	Lys	Trp	Ala
				85					90					95	
Pro	Ala	Tyr	Gly	Glu	Tyr	Met	Cys	Leu	Pro	Asp	Tyr	Ser	His	Val	Arg
			100					105					110		
Leu	Ile	Val	Gly	Gln	Phe	Phe	Asn	Ser	Asn	Thr	Arg	Ser	Gly	Arg	Gln
			115				120					125			
Ala	Phe	Ser	Ala	Lys	Ala	Phe	Glu	Met	Ile	Ser	Asp	Glu	Ala	Glu	Thr
			130				135				140				
Lys	Leu	Gly	Gln	Thr	Pro	Val	Gly	Gly	Lys	Val	Glu	Ser	Gln	Val	Thr
145					150					155					160
Glu	Asn	Trp	Trp	Ala	Asn	His	Tyr	Tyr	Asn	Tyr	Lys	Lys	Lys	Glu	Trp
				165					170					175	
Val	Arg	Val	Ser	Lys	Asp	Ser	Lys	Tyr	Glu	Phe	Leu	Gly	Glu	Thr	Thr
			180					185					190		
Ala	Thr	Asp	Ala	Tyr	Ile	Glu	Asn	Gln	Gly	Met	Trp	Phe	Asp		
			195				200					205			

<210> 30825

<211> 362

<212> PRT

<213> A.fumigatus

<400> 30825

Ser	Asp	Gly	Gln	Ser	Gln	Leu	Val	Ile	Cys	Gly	Leu	Ala	Val	Pro	Cys
1				5					10					15	
Arg	Arg	Gly	Ser	Pro	Tyr	Val	Val	Lys	Met	Ser	Asp	Asn	Ala	Ser	Ile
			20					25				30			
Thr	Pro	Gln	Thr	Ile	Pro	Ala	Ser	Arg	Ser	Ile	Phe	Pro	Lys	Gly	Pro
		35				40					45				
Asn	Phe	Thr	Leu	Ser	Asp	Phe	Ser	Ser	Arg	Asp	Tyr	Ile	Val	Lys	Glu
50						55				60					
Phe	Val	Glu	Ala	Leu	Ser	Asp	Ser	Thr	Thr	Ser	Asn	Arg	Arg	Ser	Thr
65					70				75						80
Val	Gly	Pro	Gly	Pro	Gly	Asn	Gln	Leu	Phe	Asp	Pro	Lys	Pro	Leu	Ile
			85					90					95		
Arg	Ala	Phe	Glu	His	Ala	Gln	Gln	Arg	Leu	Gly	Glu	Leu	Ser	Gly	Asp
			100					105				110			
Leu	Glu	Ile	Lys	Glu	Asn	Glu	Leu	Ser	Ala	Ala	Ala	Arg	Arg	Ala	Glu
		115				120						125			
Ala	Gln	His	Ala	Gln	Asn	Leu	Gly	Thr	Leu	Gly	Arg	Lys	Leu	Lys	Gln
		130				135					140				
Thr	Ile	Asp	Ser	Phe	Gln	Gln	Leu	Asp	Thr	Ser	Leu	Asn	Gly	Ala	Ala
145					150				155					160	
Leu	Ser	Gly	Gly	Glu	Leu	Pro	Gly	Ala	Thr	Gly	Ser	Met	Ala	Val	Glu
			165					170					175		
Thr	Gly	Arg	Arg	Leu	Glu	Glu	Leu	Asp	Arg	Gln	Arg	Arg	Arg	Ala	Leu
		180						185				190			
Asp	Ala	His	Phe	Leu	Ile	Gln	Cys	Trp	Asp	Gly	Val	Ser	Asn	Arg	Gly
		195				200						205			
Glu	Ile	Thr	Leu	Leu	Glu	Asn	Leu	Arg	Lys	Ser	Gly	Thr	Gly	Glu	Ala
	210					215					220				
Lys	Val	Arg	Ser	Ala	His	Ile	Ala	Arg	Gln	Leu	Leu	Arg	Ile	Ser	Gln
225					230					235				240	
Arg	Leu	Asp	Pro	Arg	Ser	Trp	Asp	Glu	Leu	Arg	Ala	Lys	Lys	Asn	Asp
				245					250					255	

Leu Tyr Arg Asn Asp Asp Asp Ser Val Asp Glu Gly Thr Arg Gly Asn
 260 265 270
 Thr Asn Gly Ile His Arg Asn Thr Arg Glu Ile Ile Glu Lys Phe Ser
 275 280 285
 Glu Thr Leu Glu Lys Asp Leu Leu Lys Gln Phe Asp Asp Phe Tyr Arg
 290 295 300
 Lys Ala Asn Phe Glu Gly Met Arg Asp Cys Ala Thr Val Leu Gln Asp
 305 310 315 320
 Phe Ser Gly Gly Ala Ser Val Thr Ala Leu Phe Val Asn Gln His Gln
 325 330 335
 Phe Phe Ile Asp Arg Ser Gln Leu Val Thr Glu Glu Leu Gly Gly Asp
 340 345 350
 Leu Asp Ser Trp Glu Gln Ile Gly Gly Ser
 355 360

<210> 30826

<211> 267

<212> PRT

<213> A.fumigatus

<400> 30826

Arg Trp Ser Cys Arg Lys Asn Gln Pro Ser Ser Asn Glu His Ser Leu
 1 5 10 15
 Phe Met Ser Arg Cys Trp Ala Asn Ser Gln Gln Arg Val Phe Gln Gln
 20 25 30
 Ser Ile Gln Gln Arg Leu Glu Met Val Leu Glu Lys Ala Asn Gly Ile
 35 40 45
 Ser Ser Leu Ala Phe Leu Arg Ser Leu Gln Ser Ser Arg Ser Tyr Ile
 50 55 60
 Ser Gly Leu Val Asp Asp Leu Lys Ala His Gly Leu Thr Glu His Pro
 65 70 75 80
 Asp Pro Val Ser Ser Gln Thr Ala Leu Ile Leu Asp Gln Gln Leu Glu
 85 90 95
 Asp Leu Phe Val Pro Tyr Phe Val Gly Ser Ser Tyr Ile Glu Arg Glu
 100 105 110
 Lys Lys Ser Leu Glu Glu Leu Tyr Thr Ser Leu Leu Phe Arg Phe Thr
 115 120 125
 Thr Phe His Ala Arg Arg Lys Arg Ala Ala Thr Thr Phe Met Ala Ser
 130 135 140
 Ile Ser Lys Ser Gly Thr Glu Leu Leu Ser Ser Ala Arg Asp Ala Tyr
 145 150 155 160
 Val Asn Arg Leu Glu Ser Ser Glu Phe Thr Pro Thr Gln Lys Lys Met
 165 170 175
 Leu Leu Gln Leu Ala Gly Leu Lys Glu Gln Ser Asp Ser Met Lys Pro
 180 185 190
 Thr Glu Ile Lys Leu Met Glu Lys Asp Gly Leu Pro Asn Ile Ser Tyr
 195 200 205
 Ala Lys Arg Met Leu Lys Trp Leu Ala Glu Ala Val Gly Arg Gly Leu
 210 215 220
 Glu Leu Gly Ser Thr Ser Glu Thr Pro Lys Asp Val Ser Ala Leu Leu
 225 230 235 240
 Ser Leu Leu Leu Ser Leu Met Gly Glu Gly Tyr Val Glu Val Cys Leu
 245 250 255
 Asp Ala Val Phe Glu Ala Ala Ile Ser Gln Gly
 260 265

<210> 30827
 <211> 471
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (252), (463), (465), (469)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30827

Ala	Pro	Pro	Ala	Lys	Ile	Leu	Pro	Leu	Cys	Met	Gly	Ile	Ile	Tyr	Ile	1	5	10	15
Ile	His	Val	Lys	Leu	Leu	Cys	Pro	Arg	Asn	Asn	Leu	Ile	Asp	Leu	Phe	20	25	30	
Tyr	Lys	Thr	Arg	Gln	Ser	Thr	Met	Arg	Thr	Ser	Arg	Thr	Ser	Lys	Glu	35	40	45	
Thr	Ala	Ser	Phe	Leu	Gln	Ala	Leu	Ser	Pro	Pro	Thr	Arg	Arg	Gln	Thr	50	55	60	
Arg	Ser	Ser	Ser	Arg	Thr	Asn	Val	Leu	Gln	Arg	Phe	Ala	Phe	Asn	Ala	65	70	75	80
Ser	Ala	Asn	Gly	Gln	Ala	Glu	Thr	Ala	Pro	Thr	Thr	Thr	Gly	Ala	Gln	85	90	95	
Phe	Gln	Gln	Ser	Asp	Gly	Asp	Asp	Thr	Ser	Ser	Leu	Ser	Ser	Val	Asp	100	105	110	
Thr	Val	Asp	Ile	Glu	Asp	Ile	Leu	Glu	Pro	Pro	Leu	Lys	Lys	Arg	Lys	115	120	125	
Ser	Ser	Pro	Gly	Ser	Pro	Ser	Thr	Lys	Arg	Thr	Thr	Arg	Ala	Pro	Gly	130	135	140	
Arg	Thr	Ile	Thr	Lys	Arg	Glu	Ala	Ile	Lys	Val	Glu	Pro	Ala	Lys	Pro	145	150	155	160
Lys	Ser	Arg	Arg	Val	Pro	Ala	Arg	Lys	Ile	Lys	Gly	Glu	Asn	Gly	Ser	165	170	175	
Ile	Lys	Ile	Glu	Pro	Pro	Ser	Asn	Trp	Glu	Thr	Ile	Tyr	Ser	Met	Val	180	185	190	
Lys	Lys	Met	Arg	Glu	Asn	Asn	Pro	Thr	Ala	Pro	Val	Asp	Thr	Met	Gly	195	200	205	
Cys	Ala	Glu	Leu	Tyr	Trp	Arg	Ser	Ser	Ser	Pro	Arg	Asp	Lys	Arg	Phe	210	215	220	
Gln	Thr	Leu	Met	Ala	Leu	Met	Leu	Ser	Ser	Gln	Thr	Lys	Asp	Thr	Val	225	230	235	240
Thr	Ala	Val	Ala	Met	Gln	Arg	Leu	His	Thr	Glu	Xaa	Gly	Asn	Gly	Arg	245	250	255	
Ala	Leu	Ala	Glu	Asp	Pro	Ile	Val	Lys	Lys	Glu	Glu	Gln	Glu	Asp	Ile	260	265	270	
Asp	Leu	Lys	Ser	Ser	Gln	Pro	Leu	Lys	Asp	Ser	Thr	Leu	Asn	Leu	Glu	275	280	285	
Asn	Ile	Leu	Ala	Val	Ser	Pro	Glu	Lys	Leu	Asn	Glu	Leu	Ile	Arg	Thr	290	295	300	
Val	Gly	Phe	His	Asn	Asn	Lys	Thr	Lys	Tyr	Ile	Lys	Ala	Ala	Ala	Glu	305	310	315	320
Ile	Leu	Arg	Asp	Gln	Tyr	Asn	Ser	Asp	Ile	Pro	Ser	Thr	Ala	Glu	Glu	325	330	335	
Leu	Met	Lys	Leu	Pro	Gly	Val	Gly	Pro	Lys	Met	Ala	Tyr	Leu	Cys	Met	340	345	350	
Ser	Ala	Ala	Trp	Gly	Lys	Asp	Glu	Gly	Ile	Gly	Val	Asp	Val	His	Val				

355		360		365
His Arg Ile Thr Asn Leu Trp Gly Trp His Lys Thr Lys Thr Pro Glu				
370		375		380
Glu Thr Arg Met Ala Leu Glu Ser Trp Leu Pro Arg Asp Lys Trp His				
385		390		400
Glu Ile Asn Lys Leu Leu Val Gly Leu Gly Gln Thr Val Cys Leu Pro				
	405		410	415
Val Gly Arg Arg Cys Gly Glu Cys Asp Leu Ala Gly Thr Lys Leu Cys				
	420		425	430
Lys Ser Glu Val Arg Gly Leu Leu Ser Lys Lys Asn Ala Gly Val Lys				
	435		440	445
Pro Lys Asp Glu Val Leu Lys Asp Asp Gly Leu Ala Ser Gly Xaa Ala				
	450		455	460
Xaa Val Lys Val Xaa Gly Arg				
465		470		

<210> 30828
 <211> 75
 <212> PRT
 <213> A.fumigatus

<400> 30828
Val Thr Gln Val Ser Arg Arg Ser Pro Ser Ala Asn Arg His Tyr Ser
1 5 10 15
Thr Leu Ala Leu His Ser His Ile Pro Ser Leu Arg His Asn Val Ile
20 25 30
Val Val Ser Gly Ser Thr Met Leu Thr Tyr Thr Asp Ile Ser Gly Gly
35 40 45
Leu Trp Gly Leu Lys Ile Thr Ile Pro Pro Asn Tyr Pro Leu Ala Pro
50 55 60
Pro Asn Ile Arg Phe Thr Thr Arg Ile Ser His
65 70 75

<210> 30829
 <211> 234
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (135)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30829
Ala Ala Thr Phe Asp His Gln Glu Val Ser Cys Ser Gly Thr Asp Val
1 5 10 15
Phe Gln Leu Asp Glu Asp Val Ile Thr Ile Ser Ser Pro Ser Leu Arg
20 25 30
Ser Ala Leu Val Leu Ser Thr Ala Asp Arg Arg Trp Ile Asp Leu Leu
35 40 45
Thr Gln Ile Ile Asn Asp Thr Trp Asp Glu Ser His Pro Gln Arg Pro
50 55 60
Lys Asp His Gly Tyr Met Gly Ser Glu Glu Phe Ile Arg Leu Gln Phe
65 70 75 80
Glu Glu Tyr Leu Leu Ala Leu Leu Ser Ser Met Lys Tyr His Glu Glu
85 90 95

11778

Leu His Ser Cys Ser Ser Gly Glu Ser Gly Gln Arg Ser Arg Ala Gln
 100 105 110
 Leu Glu Ala Tyr Asn Ile Glu Gly Asp Pro Ala Leu Asp Phe Asn Pro
 115 120 125
 Asp Phe Leu Ala His Trp Xaa Asn Tyr Phe Gln Leu Cys Leu Ile Leu
 130 135 140
 Lys Arg Leu Thr Ser Asp Ala Leu Leu Phe Ser Asn Arg Trp Ser Leu
 145 150 155 160
 Arg Gln Ser Leu Pro Arg Gly Gly Ser Pro Pro Leu Gly Gly Thr Gly
 165 170 175
 Ser Ala Gly Gly Leu Phe Arg Gln Gln Gly Trp Arg Glu Pro Phe His
 180 185 190
 Pro Gly Thr Glu Ser Gly Val Ala Met Glu Lys Ala Arg Arg Lys Gly
 195 200 205
 Phe Phe Gln Pro Arg Thr Asn Pro Ser Ala Lys Pro Gly Phe Lys Glu
 210 215 220
 Asn Lys Ser Ser Ser Ala Trp Gln Phe Pro
 225 230

<210> 30830
 <211> 116
 <212> PRT
 <213> A.fumigatus

<400> 30830
 Leu Tyr Thr Ile Gly Asn Ile Lys Leu Phe Leu Thr Val Ile Lys Tyr
 1 5 10 15
 Thr Pro Gln Ala Trp Met Asn Tyr Cys Arg Gln Ser Thr Lys Gly Phe
 20 25 30
 Cys Met Ile Ala Val Leu Met Asp Phe Thr Gly Gly Met Leu Ser Leu
 35 40 45
 Ile Gln Leu Ile Ile Asp Thr Ser Leu Gln Ala Asp Trp Ser Gly Ala
 50 55 60
 Gln Gly Asn Ala Thr Lys Leu Val Leu Gly Asn Leu Thr Ile Phe Phe
 65 70 75 80
 Asp Ile Ile Leu Leu Val Gln His Tyr Cys Leu Tyr Ser Arg Lys Ser
 85 90 95
 Arg Ser Thr Gly Ala Gln Leu Ser Glu His Asp Pro Leu Leu Arg Thr
 100 105 110
 Gly Asn Asp Ser
 115

<210> 30831
 <211> 275
 <212> PRT
 <213> A.fumigatus

<400> 30831
 Gly Asp Ile Gly Phe Ala Asp Leu His Trp Val Met Lys Gly Ser Val
 1 5 10 15
 Leu Ala Tyr Phe Leu Cys Met Cys Ser Asn His Leu Ala Cys Arg Ile
 20 25 30
 Tyr Ala Leu Gly Ser Ala Val Leu Phe Gly Thr Ser Phe Pro Ala Glu
 35 40 45
 Met Arg Ser Asn Val Ala Pro Ile Gly Phe Ile Leu Gly Ser Ile Leu
 50 55 60

11779

```

Ile Ala Val Gly Leu Gly Gly Val Gln Ala Ser Ala Gln Pro Phe Ile
65          70          75          80
Gly Arg Gly Cys Pro Ser Leu Val Phe Ala Gln Phe Lys Glu Asp Pro
      85          90          95
Thr His Phe Leu Leu Ser Arg Pro Ile Tyr Arg Ala Asn Leu Ala Asp
      100        105        110
Lys Gly Cys Lys Glu Arg Gln Ala Ser Ser Arg Asn Ser Arg Ser Asp
      115        120        125
Tyr Pro Val Tyr Leu Gln Cys Val Leu Leu Val Cys Arg Val Asp Ser
      130        135        140
Thr Phe Gln Asn Arg Arg Leu Ser Leu Leu Thr Gly Met Asp His His
145          150          155          160
Ser Arg Met Val Asn Val Gly Ser Leu Gly Ser Ile Ala Thr Thr Leu
      165        170        175
Met Glu Arg Tyr Ile Gly Phe Trp Ser Ala Tyr Leu Leu Asp Leu Cys
      180        185        190
Ala Val Met Ile Ala Val Val Val Val His Leu Ala Lys Pro Lys Phe
      195        200        205
Gly Met Ile Gln Ala Ser Ser Ser Gln Leu Leu Ser Thr Ile Ala Asp
      210        215        220
Pro Glu Arg Ile Asn Ser Ser Ser Cys Arg Thr Ser Val Arg Pro Ser
225          230          235          240
Pro Cys Arg Ser Leu Pro Met Val Cys Cys Ser Gly Trp Phe Gln Pro
      245        250        255
Arg Cys Cys Thr Ser Arg Val Ser Val Gly Glu Pro Pro Arg Asn Gly
      260        265        270
Thr Met Gly
      275

```

<210> 30832

<211> 149

<212> PRT

<213> A.fumigatus

<400> 30832

```

Arg His Lys Ile Ser Phe Ser Pro Val Asn Arg Ile Ser Leu Gly Phe
1          5          10          15
Ile Ile Met Ser Val Ala Met Ala Tyr Ser Ala Val Val Gln Ala Ile
      20          25          30
Ile Tyr Arg Ser Ala Pro Cys Tyr Ser His Pro Leu Ser Cys Pro Ala
      35          40          45
Ser Ser Gly Gly His Thr Pro Asn His Val His Val Leu Leu Gln Leu
      50          55          60
Pro Thr Phe Val Ile Ile Ala Leu Ala Glu Val Phe Cys Trp Pro Thr
65          70          75          80
Gly Ser Glu Tyr Thr Tyr Ser His Ala Pro Lys Ser Met Lys Ser Val
      85          90          95
Leu Gln Ala Cys Tyr Ile Ser Thr Ala Gly Val Gly Tyr Leu Leu Gly
      100        105        110
Met Thr Leu Ser Pro Leu Ala Lys Asp Pro Leu Leu Val Val Leu Trp
      115        120        125
Ser Ala Thr Ala Ala Met Met Phe Val Thr Ala Cys Ala Phe Arg Val
      130        135        140
Ala Phe Arg Asn Phe
145

```

11780

<210> 30833
 <211> 171
 <212> PRT
 <213> A.fumigatus

<400> 30833

Ser	His	Trp	Arg	Lys	Lys	Lys	Asp	Val	Val	Gly	Thr	Ser	Val	Arg	Thr
1				5					10					15	
Ile	Leu	Ala	Asn	Val	Phe	Met	Gln	Thr	Val	Ile	Phe	Leu	Tyr	Leu	Met
			20					25					30		
Asp	Asn	Ser	Glu	Asn	Thr	Ser	Trp	Met	Ile	Leu	Ala	Ser	Gln	Gly	Phe
		35					40					45			
Gly	Ile	Leu	Leu	Glu	Ala	Trp	Lys	Ile	Thr	Lys	Thr	Val	Asn	Val	Arg
	50					55					60				
Leu	Arg	Ala	Pro	Pro	Ala	Gly	Ser	Phe	Tyr	Ser	Phe	Leu	Pro	Tyr	Val
65					70					75					80
Val	Val	Phe	Glu	Asp	Lys	His	Lys	Leu	Ser	Glu	Thr	Glu	Lys	Lys	Thr
				85					90				95		
Lys	Glu	Tyr	Asp	Glu	Ile	Ala	Phe	Arg	Trp	Leu	Tyr	Ile	Ile	Ala	Val
			100					105					110		
Pro	Leu	Leu	Gly	Ala	Tyr	Ala	Ala	Tyr	Ser	Leu	Ile	Tyr	Asn	Thr	His
		115					120					125			
Lys	Ser	Trp	Tyr	Ser	Tyr	Ile	Ile	Glu	Thr	Leu	Val	Gly	Ser	Val	Tyr
		130				135					140				
Ala	Tyr	Gly	Phe	Leu	Met	Met	Val	Pro	Ser	Leu	Tyr	Ile	Asn	Tyr	Arg
145					150					155					160
Leu	Lys	Val	Gly	Ala	Pro	Gln	Phe	Lys	Pro	Leu					
				165					170						

<210> 30834
 <211> 110
 <212> PRT
 <213> A.fumigatus

<400> 30834

Tyr	Arg	Gln	Gln	Ser	Val	Ala	His	Met	Pro	Gly	Lys	Ala	Leu	Thr	Tyr
1				5					10					15	
Lys	Phe	Leu	Asn	Thr	Phe	Ile	Asp	Asp	Leu	Phe	Ala	Phe	Thr	Val	Lys
			20					25					30		
Met	Pro	Trp	Leu	His	Arg	Leu	Ala	Thr	Leu	Arg	Asp	Asp	Val	Ile	Phe
		35					40					45			
Phe	Ile	Trp	Leu	Tyr	Gln	Ser	Tyr	Lys	Tyr	Lys	Val	Asp	Tyr	Lys	Arg
	50					55					60				
Val	Asn	Glu	Phe	Gly	Gln	Gly	Gly	Asp	Ser	Asp	Glu	Glu	Ala	Glu	Glu
65					70					75					80
Pro	Ala	Ala	Ala	Glu	Ser	Glu	Lys	Lys	Leu	Glu	Ala	Val	Ser	Glu	Ala
				85					90					95	
Ser	Gly	Arg	Asp	Asn	Ala	Glu	Lys	Ser	Ala	Arg	Lys	Arg	Lys		
			100					105					110		

<210> 30835
 <211> 337
 <212> PRT
 <213> A.fumigatus

<400> 30835

11781

Leu Leu Ile Ala Val Ala Tyr Val Pro Ser Lys Lys Arg Tyr Thr Asp
 1 5 10 15
 Ala Gly Gln Leu Ala Lys Thr Ile Ala Ser His Ala Tyr Glu Ser Gly
 20 25 30
 Ile Ala Pro Ser Ala Leu Glu Arg Leu Ile His Ile Leu Thr Leu Lys
 35 40 45
 Asn Leu Leu Asp Gln Gly Thr Ile Thr Thr Leu Ile Lys Asn Leu Tyr
 50 55 60
 Pro Ile Asp Met Ile Ser Ser Lys Val Val Thr Gln Val Val Cys Cys
 65 70 75 80
 Leu Gly Pro Ser Lys Asn Lys Pro Ser Pro Ala Thr Gln Ala Ser Leu
 85 90 95
 Leu Arg Trp Leu Ile Leu Val Tyr Glu Phe Cys Glu Asp Arg Ser His
 100 105 110
 Leu Ala Lys Leu Tyr Ala Val Leu Phe Asn His Leu Asp Met Ile Ser
 115 120 125
 Leu Arg Lys Pro Leu Cys His Leu Leu Ser Ile Ile Thr Arg Arg Lys
 130 135 140
 His Val Lys Pro Phe Arg Ile Gln Ala Leu Met Glu Leu Val Asn Ala
 145 150 155 160
 Ala Gly Ala Glu Glu Lys Glu Leu Ile Gly Leu Leu Asn Val Phe Lys
 165 170 175
 Asn Tyr Tyr Pro Asp Ile Ile Val Gly Asp Leu Gly Ala Leu Arg Arg
 180 185 190
 Arg Gly Leu Val Phe Lys His Pro Asp Pro Glu Trp Thr Ser His Ala
 195 200 205
 Lys Leu Leu Gln Asp Arg Asn Met Glu Gln Val Gln Ala Ala Gln Ser
 210 215 220
 Ser Ser Phe Gln Val Val His Arg Gly Ala Ala Lys Arg Gly Lys Met
 225 230 235 240
 Glu Val Ile Val Pro Val Leu Gln Thr Ser Arg Val Ser Ser Asn Arg
 245 250 255
 Thr Ser Leu Glu Glu Leu Arg Ser Val Asp His Leu Ile Gly Lys Leu
 260 265 270
 Asp Arg Ile Glu Leu Pro Asn Gln Ile Ile Ser Ala Met Ala Asp Asn
 275 280 285
 Ile Ala Gln Lys Tyr Leu Phe Leu Val Gln Pro Glu Ser Ala Arg Leu
 290 295 300
 Arg Leu Asp Asp Trp Leu Ser Ser Phe Phe Asp Glu Gln Leu Glu His
 305 310 315 320
 Ala Gln Asp Glu Glu Arg Gly Ser Ser Glu Ser Leu Gly Tyr Ile Leu
 325 330 335
 Ser

<210> 30836

<211> 93

<212> PRT

<213> A.fumigatus

<400> 30836

Arg Leu Lys Leu Met Lys Ile Lys Val Asp Phe Ala Asp Gly Lys Ile
 1 5 10 15
 Tyr Leu Ser Phe His Ser Arg Val Met Val Tyr Ser Ser Ser Gly Ile
 20 25 30
 Ser Gln Lys Glu Lys Lys Asp Val Ser Ser His Ser Tyr Phe Leu Phe

11782

```

      35              40              45
Arg Ala Asp Phe Ser Ala Leu Ser Leu Pro Asp Ala Ser Asp Thr Ala
  50              55              60
Ser Asn Phe Phe Ser Asp Ser Ala Ala Ala Gly Ser Ser Ala Ser Ser
  65              70              75              80
Ser Leu Ser Pro Pro Cys Pro Asn Ser Leu Thr Arg Leu
      85              90

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<210> 30837
 <211> 166
 <212> PRT
 <213> A.fumigatus

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<400> 30837
Gln Phe Ala Arg Leu Asn Glu Gln Gly Tyr Pro Leu Gly Leu Arg Leu
  1              5              10              15
Leu Asp Leu Leu Phe Tyr Arg Ser Met Ser Ser Ser Thr Ser Thr Ser
      20              25              30
Leu Ser Ser Ser Ser Thr Ser Ala Ser Pro Pro Asn Arg Pro Leu Arg
      35              40              45
Ile Leu Pro Leu Leu His Leu Ile His Gly Pro Leu Trp Arg Leu Leu
      50              55              60
Phe Gln Arg Pro Ala Asp Ala Leu Glu His Ser Val Ser Pro Glu Thr
  65              70              75              80
Pro Asn Glu Tyr Met Ile Thr Asp Asn Asp Pro Leu Val Asn Thr Tyr
      85              90              95
Ile Ser Val Pro Lys Glu Met Asn Met Leu Asn Cys Ala Ala Phe Val
      100              105              110
Ala Gly Ile Ile Glu Gly Val Cys Asp Gly Cys Gly Phe Glu Ala Lys
      115              120              125
Val Thr Ala His Asn Gln Pro Thr Glu Met Trp Pro Gly Arg Thr Ile
      130              135              140
Phe Leu Leu Arg Phe Gly Glu Ser Val Met Glu Arg Glu Lys Val Leu
  145              150              155              160
Glu Arg Ala Gly Val Lys
      165

```

<210> 30838
 <211> 136
 <212> PRT
 <213> A.fumigatus

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<400> 30838
Arg Gln Asp Thr Gly Arg Phe Gly Glu Gly Phe Asn Asp Arg Pro Arg
  1              5              10              15
Arg Arg Asp Gly Ala Pro Leu Gly Ile Arg Asp Glu Arg Phe Leu Pro
      20              25              30
Asp Arg Pro Glu Asp Arg Pro Lys Gly Pro Thr Gly Ala Asn Ala Ser
      35              40              45
Ala Val Arg Glu Arg Arg Arg Ser Arg Ser Arg Ser Tyr Ser Pro Arg
      50              55              60
Arg Asp Arg His Arg Asp Arg Arg Asp Asp Arg His Asp Ser Arg Arg
  65              70              75              80
Asp Arg Tyr Gly Gly Asp Asp Leu Tyr Ala Asp Arg Asp Arg Arg Asp
      85              90              95
Arg Ser Arg Asn Arg Asp Arg Ser Lys Asp Arg Tyr Arg Pro Glu Thr

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11783

100	105	110
Asn Ser Arg Arg Lys Arg Ser Pro Ser Pro Cys Asp Asp Arg Asp Lys		
115	120	125
Arg Arg Arg Thr Asp Asp Ala Thr		
130	135	

<210> 30839
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 30839
 Tyr Ala Ile Arg His Leu Pro Glu Ser Ser Gln Gly Ser Cys Ile Pro
 1 5 10 15
 Ala Val Val Thr Pro Ser Asp Asn Gly Ser Ala Gly Arg Lys Pro Pro
 20 25 30
 Thr Tyr Phe Thr Pro Ala Leu Ser Asn Thr Phe Ser Leu Ser Met Thr
 35 40 45
 Leu Ser Pro Asn Arg Asn Arg Lys Ile Val Arg Pro Gly His Ile Ser
 50 55 60
 Val Gly
 65

<210> 30840
 <211> 76
 <212> PRT
 <213> A.fumigatus

<400> 30840
 Leu Cys Ala Val Thr Leu Ala Ser Lys Pro Gln Pro Ser Gln Thr Pro
 1 5 10 15
 Ser Met Ile Pro Ala Thr Lys Ala Ala Gln Leu Ser Met Phe Ile Ser
 20 25 30
 Phe Gly Thr Leu Met Tyr Val Phe Thr Ser Gly Ser Leu Ser Val Ile
 35 40 45
 Met Tyr Ser Leu Gly Val Ser Gly Asp Thr Glu Cys Ser Arg Ala Ser
 50 55 60
 Ala Gly Arg Trp Lys Ser Arg Arg Gln Ser Gly Pro
 65 70 75

<210> 30841
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 30841
 Pro Glu Leu Thr Arg Glu Ile Arg Arg Gln Met Cys Gly Arg Ala Gly
 1 5 10 15
 Arg Lys Gly Lys Asp Asn Thr Gly Glu Thr Tyr Leu Ile Cys Gly Lys
 20 25 30
 Ala Asp Ile Gln Ala Val Cys Asp Leu Leu Glu Ala Asp Met Pro Ala
 35 40 45
 Ile Glu Ser Cys Leu Ala Pro Glu Lys Arg Gly Leu Lys Arg
 50 55 60

<210> 30842

<211> 169
 <212> PRT
 <213> A.fumigatus

<400> 30842

Ile	Val	Leu	Ile	Pro	Phe	Val	Lys	Ser	Met	Ala	Ala	Leu	Thr	Val	Cys
1				5					10					15	
Arg	Val	Gln	Ser	Gly	Gly	Ser	Leu	Lys	Glu	Asp	Asn	Pro	Glu	Gln	Ile
		20						25				30			
Lys	Gln	Ala	Thr	Ile	Tyr	Arg	Arg	Ala	Tyr	Thr	Ala	Phe	Gln	Leu	Arg
		35					40					45			
Asp	Leu	Ser	Asn	Glu	Val	Pro	Leu	Ser	Thr	Ile	Ala	Ser	Arg	Tyr	Asn
	50					55					60				
Ile	Pro	Arg	Gly	Ala	Val	Gln	Thr	Leu	Ala	Gln	Gln	Cys	His	Gly	Phe
65					70					75					80
Ala	Ala	Gly	Met	Val	Lys	Phe	Cys	Gln	Arg	Met	Asp	Trp	Gly	Met	Leu
				85					90					95	
Ala	Ala	Val	Leu	Asp	His	Met	Arg	Asp	Arg	Leu	Glu	Ala	Gly	Ala	Arg
			100					105					110		
Ala	Asp	Leu	Leu	Glu	Met	Ala	Gln	Val	Thr	Tyr	Val	Lys	Gly	Trp	Thr
		115					120						125		
Ala	Arg	Leu	Leu	Arg	Glu	Asn	Gly	Phe	Arg	Asn	Leu	Arg	Asp	Leu	Ala
	130					135					140				
Gly	Ala	Asp	Ala	Lys	Asp	Leu	Val	Pro	Val	Leu	Met	Met	Val	Cys	Gln
145					150					155					160
Leu	Val	Val	Phe	Lys	His	Ala	Trp	Gly							
				165											

<210> 30843
 <211> 158
 <212> PRT
 <213> A.fumigatus

<400> 30843

Trp	Met	Ile	Arg	Ala	Leu	Leu	Glu	Ala	Ile	Ala	Thr	Gly	Leu	Val	Ser
1				5					10					15	
Gly	Cys	Glu	Ala	Ile	Lys	Glu	Tyr	Val	Lys	Cys	Thr	Leu	Leu	Tyr	Arg
		20						25				30			
Thr	Val	Asp	Lys	Lys	Ile	Ala	Ser	Ser	Ile	Met	Gln	Ser	Ser	Leu	Gln
		35					40					45			
Glu	Leu	Ile	Asp	Glu	Gly	Leu	Leu	Val	Phe	Lys	Glu	Asp	Glu	Ser	Tyr
	50					55					60				
Ala	Ala	Thr	Lys	Leu	Gly	Gln	Ala	Val	Val	Ala	Ser	Ala	Phe	Ala	Pro
65					70					75					80
Glu	Asp	Gly	Leu	Phe	Val	Tyr	Glu	Glu	Leu	Lys	Arg	Ala	Leu	Arg	Ala
			85						90					95	
Phe	Val	Met	Asp	Gly	Asp	Met	His	Val	Phe	Tyr	Met	Phe	Thr	Pro	Ile
		100					105						110		
Gln	Val	Ala	Met	Asn	Thr	Gln	Ile	Asp	Trp	Leu	Ile	Phe	Arg	Glu	Gln
		115				120						125			
Leu	Asp	Asn	Leu	Asp	Glu	Ser	Gly	Leu	Arg	Ala	Leu	Gln	Phe	Val	Gly
	130					135					140				
Val	Gln	Pro	Tyr	Phe	Val	Asn	Leu	Met	Cys	Ala	Glu	Leu	Phe		
145					150					155					

<210> 30844

11785

<211> 85
<212> PRT
<213> A.fumigatus

<400> 30844

```

Arg Thr Pro Ser Ser Arg Ala Leu Asp Phe Ile Val Gly Ala His Ile
1          5          10          15
Ala Cys Leu Cys Arg Arg Pro Asn Ser Ala Thr Asp Ala Gly Met Thr
          20          25          30
Thr Glu Glu Arg Glu Leu Ile Ala Gln Ala Tyr Asp Gln Gly Val Leu
          35          40          45
Lys Val Ile Val Ala Thr Cys Ser Leu Ala Ala Gly Val Asn Leu Pro
          50          55          60
Ala Arg Arg Val Ile Ile Asn Gly Ala Arg Met Gly Arg Glu Leu Val
65          70          75          80
Gly Pro Ala Met Leu
          85

```

<210> 30845
<211> 181
<212> PRT
<213> A.fumigatus

<400> 30845

```

Arg Arg Asn Val Gln Ser Ser Ile Glu Asp Ser Thr Phe Arg Ala Tyr
1          5          10          15
Leu Lys Asp Pro Tyr Phe Leu Lys Ser Ile Leu Pro Leu Ser Asp Asp
          20          25          30
Leu Val Cys Ile Leu Ser Arg Ile Phe Glu Cys Asp Pro Ser Lys Arg
          35          40          45
Ile Thr Ile Pro Glu Leu Arg Gln Leu Ile Leu Asp Cys Pro Gln Phe
          50          55          60
Thr Leu Asn Pro Val Ile Pro Trp Val Ala Pro His Gly Pro Leu Pro
65          70          75          80
Tyr Asp Val Ile Ser Gly Pro Gln Val Pro Val Ser Val Pro Val His
          85          90          95
Ala Phe Asn Pro Gln Pro Ser Thr Ser Ser Ser Asp Ser Ser His Tyr
          100          105          110
Ser Asn Tyr Ser Glu Ser Ala Ala Ser Asp Ser Ser Cys Tyr Thr Glu
          115          120          125
Val Phe Thr Asp Met Asp Ser Val Pro Ser Met Ser Ser Val Glu Tyr
          130          135          140
Glu Pro Glu Thr Asp Cys Arg Gly Asp Leu Ser Leu Asp Ser Leu Thr
          145          150          155          160
Cys Lys Asp Ile Ser Glu Ala Ile Val Val His Gln Ser Asp Pro Gln
          165          170          175
Thr Leu Cys Val Cys
          180

```

<210> 30846
<211> 195
<212> PRT
<213> A.fumigatus

<400> 30846

Ile Thr Asp Lys Gln Trp Asp Thr Met Leu Ala Val His Asn Thr Ala

11786

1 5 10 15
 Pro Phe Lys Leu Ile Arg Ala Ala Ala Pro Tyr Phe Arg Val Lys Asp
 20 25 30
 Gly Glu Asp Arg Val Ile Ile Asn Ile Ser Ser Thr Ser Gly Ile His
 35 40 45
 Gly Asn Ala Tyr Val Tyr Ile Ser Pro Ser Ala Val Asp Ile Ser Cys
 50 55 60
 Ala Asp Gly Cys Trp Val Thr Arg Gly Gln Ala Asn Tyr Ala Leu Ala
 65 70 75 80
 Lys Ala Gly Leu Val Gly Leu Thr Lys Thr Ile Thr Lys Glu Trp Gly
 85 90 95
 Pro Ala Tyr Gly Val Arg Ala Asn Thr Ile Ala Phe Gly Phe Val Lys
 100 105 110
 Thr Arg Leu Thr Ala Ala Lys Glu Glu Gly Ala Phe Ile Thr Thr Pro
 115 120 125
 Asp Gly Thr Lys Val Ala Leu Gly Ile Pro Gly Lys Gln Leu Ala Gly
 130 135 140
 Arg Lys Gly Asp Glu Lys Gln Ala Tyr Pro Asp Ile Pro Leu Gly Arg
 145 150 155 160
 Pro Ala Ser Pro Glu Glu Ala Ala Arg Ala Ile Leu Gly Val Cys Ser
 165 170 175
 Pro Tyr Phe Ser Tyr Val Ser Gly Glu Thr Ile Arg Val Thr Gly Gly
 180 185 190
 Arg Asn Thr
 195

<210> 30847

<211> 82

<212> PRT

<213> A.fumigatus

<400> 30847

Ile Ala Gly Tyr Thr Thr His Leu Met Lys Arg Ile Gln Arg Gly Pro
 1 5 10 15
 Val Arg Gly Ile Ser Phe Lys Leu Gln Glu Glu Glu Arg Glu Arg Lys
 20 25 30
 Asp Gln Tyr Val Pro Glu Val Ser Ala Leu Asp Val Ser Gln Thr Glu
 35 40 45
 Ser Gly Gln Leu Asp Val Asp Ala Asp Thr Lys Asp Leu Leu Lys Ser
 50 55 60
 Met Gly Val Ser Ser Val Leu Asn Ala Val Val Arg Gly Phe Lys Ala
 65 70 75 80
 Val Arg

<210> 30848

<211> 169

<212> PRT

<213> A.fumigatus

<400> 30848

Ser Cys His Glu Ser Arg Val Ala Gly Ala Met Thr Glu His Asp Pro
 1 5 10 15
 Pro Gly Asn Glu Arg Pro Cys Gln Ser Cys Ile Arg Arg Gly Cys Ala
 20 25 30
 Asp Ser Cys Arg Asp Gly Glu Arg Lys Lys Pro Lys Tyr Leu Glu Glu

11787

```

      35      40      45
Gly Ser Tyr Arg Val Phe Thr Ile Gln Tyr Asn Val Pro Cys Tyr Lys
  50      55      60
His Cys Ala Ser Thr Thr Leu Asn His Thr Phe Ser Ser Arg Asp Ala
  65      70      75      80
Gly Phe Gln Leu Arg Thr Pro Ser Pro Asn Ser Gly Gln Thr Ala Cys
      85      90      95
Ser Tyr Gln Asp Phe Ser Pro Trp Thr Ile Ser Ala Glu Asp Pro Phe
      100      105      110
Ile Gly Leu Asp Leu Asp Asp Ala Gln Phe Glu Leu Glu Asp Ala Phe
      115      120      125
Leu Leu Glu Ser Pro Gln Ser Asp Gly Ile Glu Ala Asp Ser Gln Arg
      130      135      140
Asp Thr Leu Leu Ala Phe Ala Ile Gly Ser Gly Trp Ser Ser Thr Phe
      145      150      155      160
Leu Gln Ser Glu Tyr Glu Asp Pro Val
      165

```

<210> 30849

<211> 65

<212> PRT

<213> A.fumigatus

<400> 30849

```

Glu Ala Gly Gly Gln Val His Phe Ser Ser Arg Asn Met Arg Thr Leu
  1      5      10      15
Tyr Ser Met Ala Val Asp Leu Ser Ala Phe Ile Pro Tyr Asp Asp Thr
      20      25      30
Tyr Met Tyr Phe Leu Gln Ser Ala Leu Ile Thr Leu Gly Gly Arg Leu
      35      40      45
Gly Phe His Asn Asp Ile Val Cys Phe Glu Lys Asp Thr His Met Leu
      50      55      60
Ala
  65

```

<210> 30850

<211> 86

<212> PRT

<213> A.fumigatus

<400> 30850

```

Arg Pro Ser Arg Gln Tyr Ser Pro Val Pro Lys Arg Val Met Asp Gly
  1      5      10      15
Ser Glu Pro Gly Asp Thr Val Ala Ala Val Leu Ser Gly Ala Pro
      20      25      30
Thr Asp Leu Gln Ala Arg Thr Val Arg Tyr Ile Phe Arg Phe Ser Ser
      35      40      45
Ile Thr Arg Arg Phe Leu Thr Met Gln Leu Gly Phe Thr Ser Leu Arg
      50      55      60
Ser Leu Gln Arg Ser Pro Val Pro Gly Thr Ala Ile Thr Gly Glu Trp
      65      70      75      80
Thr Gly Thr Phe Cys Ile
      85

```

<210> 30851

<211> 116

<212> PRT

<213> A.fumigatus

<400> 30851

```

Ile Phe Leu Asn His Pro Pro Leu Ser Asp His Ala Thr Arg Ile Tyr
1           5           10           15
Lys Pro Ser Lys Pro Ala Thr Gln Ser Gly Thr Trp His Ser His His
          20           25           30
Trp Arg Met Asp Trp Asp Ile Leu His Ile Gly His Arg Trp Glu Asn
          35           40           45
Pro Leu Met Gly Trp Gln Ser Ser Gly Asp Phe Met Gln Gly Thr His
          50           55           60
Leu Asn Phe Lys Thr Lys Glu Asp Ala Ile Leu Phe Ala Gln Lys Gln
65           70           75           80
Gly Tyr Glu Tyr Phe Val Gln Glu Pro Asn Glu Arg Arg Phe Val Pro
          85           90           95
Lys Ala Tyr Ala Asn Asn Phe Ile His Glu Pro Lys Lys Leu Lys His
          100          105          110
Ile Arg Thr Lys
          115

```

<210> 30852

<211> 64

<212> PRT

<213> A.fumigatus

<400> 30852

```

Ser Phe Ile Asp Cys Thr Val His Ser Pro Val Phe Lys Val Ser Arg
1           5           10           15
Ser Ala Thr Trp Cys Ser Tyr Ser His Ile Leu Ile Ile Gln Lys
          20           25           30
Ser Tyr Arg Asn Ile Asn Ala Val Ser Lys Leu Asp Lys Met Ser Tyr
          35           40           45
Ile Ala Pro Pro Arg Ser Leu Asp Leu Asp Ser Pro Gln Gly Lys Glu
          50           55           60

```

<210> 30853

<211> 96

<212> PRT

<213> A.fumigatus

<400> 30853

```

Tyr Ser Asp Pro Glu Gly Gly Tyr Phe Val Leu Ala Asn Met Ser Ser
1           5           10           15
Val Lys Leu Pro Glu Asp Tyr Pro Phe Pro Pro His Val Ala Ser Arg
          20           25           30
Pro Arg Asp Phe Lys Leu Cys Trp Phe Leu Ile His Glu Val Gly Val
          35           40           45
Ala Ala Ile Pro Pro Thr Glu Phe Tyr Thr Asp Ala Asn Ala His Ile
          50           55           60
Ala Glu Asp Tyr Leu Arg Phe Ala Val Cys Lys Asn Asp Asp Val Leu
65           70           75           80
Glu Thr Ala Lys Glu Arg Leu Arg Gly Leu Lys Lys Tyr Ile Ser Lys
          85           90           95

```

<210> 30854

<211> 532
 <212> PRT
 <213> A.fumigatus

<220>

<221> UNSURE

<222> (400)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30854

Asn	Ile	Ser	Pro	Glu	Gln	Leu	Ile	Thr	Arg	Leu	Ser	Ala	Ile	Asn	Leu
1				5					10					15	
Ile	Arg	Ala	Arg	Thr	Ile	Thr	Arg	Leu	Ser	Pro	Thr	Glu	Ser	Leu	Ser
		20						25					30		
Ser	Gly	Asp	Thr	Phe	Ser	Pro	Phe	Ser	Asp	Arg	Phe	His	Ser	Ser	Ser
	35						40					45			
Gly	His	Ser	Ala	Glu	Ser	Asn	Pro	Ser	Pro	Val	Val	Val	Met	Gln	Pro
	50					55					60				
Val	Pro	Thr	Leu	Arg	Lys	Arg	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
65					70				75					80	
Thr	Arg	Asn	Arg	Asn	Arg	Gly	Val	Asn	Ser	Gln	Asp	Ser	Met	Ala	Glu
				85				90						95	
Gly	Pro	Ser	Gly	Ser	Arg	Asn	Glu	Thr	His	Ile	Cys	Arg	Thr	Pro	His
			100					105					110		
Val	Arg	Pro	Ser	Val	Asp	Ser	Tyr	Ile	Gln	Ala	Gln	Gly	Glu	Lys	Asp
		115						120				125			
Asn	Gln	Gln	Met	Arg	Ser	Pro	Glu	Pro	Pro	Glu	Pro	Ala	Met	Phe	Gln
	130					135					140				
Ser	Asn	Trp	Thr	Ser	Ala	Asp	Cys	Ala	Pro	Ser	His	Asn	Glu	Leu	Gln
145				150					155					160	
Gln	Gly	Asp	Ala	Asp	Leu	Gln	Pro	Gly	Pro	Gly	Thr	Val	Gly	Lys	Pro
			165					170						175	
Ser	Ser	Ala	Met	Leu	Asn	Leu	Gly	Glu	Asn	Pro	Gly	Ser	Ser	Val	Thr
		180						185				190			
Ser	Leu	His	Asp	Lys	Val	Ile	Ser	Ala	Gly	Glu	Ala	Ser	Pro	Val	Pro
	195						200					205			
Ser	Ser	Ser	Gln	His	Pro	Gly	Ala	Asn	Lys	Asp	Ser	Arg	Arg	Pro	Ala
	210					215					220				
Asn	Ser	Ala	Lys	Lys	Met	Leu	Pro	Ser	Ile	Glu	Glu	Ala	Ala	Ser	Glu
225					230					235				240	
Ala	Thr	Gln	Asp	Ser	Leu	Ser	Asn	Asp	Ala	Ser	Thr	Phe	Met	Met	Arg
			245						250					255	
Ser	Lys	Ser	Leu	Ser	Ala	Arg	Thr	Gln	Ile	Arg	Asp	Thr	Ser	Pro	Tyr
		260						265					270		
Lys	Thr	Ala	Ser	Thr	Ile	Leu	Thr	Ala	Asp	Glu	His	Ala	Pro	Ser	Lys
	275						280					285			
Pro	Glu	Ser	Glu	Lys	Asp	Ser	Ser	Ser	Val	Thr	Asn	Leu	Asp	Ile	Glu
	290					295					300				
Gln	Ser	Ser	Gln	Gln	Thr	Pro	Tyr	Ser	Lys	Asp	His	Glu	Ser	Pro	His
305					310					315				320	
Phe	Ser	Asn	Ser	His	Ser	His	Pro	Ser	Pro	Pro	Ala	Glu	Ser	Asp	Ile
			325						330					335	
Ser	Thr	Leu	Ser	Thr	Pro	Lys	Ala	Tyr	Arg	Asn	Val	Ser	Ser	Gln	Arg
		340						345					350		
Pro	Asp	Ala	Phe	Phe	Trp	Gln	Leu	Asp	Ser	His	Gly	Phe	Pro	Cys	Ala
	355						360					365			

Lys Gln Ser Cys Asp Lys Arg Cys Asn Leu Trp Asp Gly Arg Thr Val
 370 375 380
 Ile Cys Pro Lys Cys Gly Pro Phe Ser Glu Val Arg Tyr Cys Cys Xaa
 385 390 395 400
 Glu His Leu Leu Gln Asp Ile Lys Trp His Trp Val Tyr Cys Gly Gln
 405 410 415
 Met Thr Phe Thr Glu Pro Cys Arg Glu Asn Ser Val Pro Arg Asp Val
 420 425 430
 Arg Asp Gly Pro Pro Leu Leu Pro Cys Leu His Pro Tyr Asp Thr Pro
 435 440 445
 Glu Arg His Arg Gln Ala Val Tyr Phe Asn Val Asn Ile Arg Glu Gly
 450 455 460
 Asp Tyr Phe Val Phe Ser Asp Tyr Ala Asp Trp Ala Gln Ala Gly Val
 465 470 475 480
 Pro Glu Ile Asn Leu Glu Met Arg Cys Ser His Arg Val Leu Tyr Thr
 485 490 495
 Ile Lys Phe Glu Asp Arg Glu Lys Lys Asp Arg Phe Arg Arg Ile Leu
 500 505 510
 Ala Ala Cys Leu Phe Ser Lys Pro Trp Ser Ser Thr Lys Arg Ala Ser
 515 520 525
 Glu Ile Ala Cys
 530

<210> 30855
 <211> 626
 <212> PRT
 <213> A.fumigatus

<400> 30855
 Ser Ser Thr Gly Lys Pro Lys Gly Thr Val Ile Pro His Ser Ala Met
 1 5 10 15
 Phe Ala Ala Trp Asp Gly Ile Leu Tyr Ala Thr Thr Gln Asp Asn Ser
 20 25 30
 Arg Arg Ile Met Trp Ser Leu Asn Tyr Thr Phe Asp Gly Ser Phe Tyr
 35 40 45
 Pro Leu Phe Pro Thr Leu Ala Thr Gly Arg Thr Leu Cys Val Ala Pro
 50 55 60
 Gln His Thr Ile Val Gly Asn Leu Ala Asp Val Ile Thr Lys Leu Arg
 65 70 75 80
 Val Asp Gln Ile Asn Leu Thr Pro Thr Met Ala Ser Leu Leu His Pro
 85 90 95
 Asp Asp Val Pro Thr Leu Glu Ile Leu Ala Thr Gly Gly Glu Pro Val
 100 105 110
 Thr His His Met Leu Asn Val Trp Ala Pro Arg Ile Lys Val Tyr Thr
 115 120 125
 Ser Tyr Gly Pro Thr Glu Ala Thr Ile Cys Val Thr Thr Arg Gln Val
 130 135 140
 Thr Pro Asp Met Asn Ile Arg Asn Val Gly Arg Pro Phe Pro Asn Thr
 145 150 155 160
 Thr Ala Leu Ile Leu Asp Pro Asp Thr Met Glu Glu Leu Pro Ser Gly
 165 170 175
 Ser Val Gly Glu Leu Cys Ile Ala Gly Pro Gln Leu Ala Arg Gly Tyr
 180 185 190
 Leu Asn Arg Pro Glu Ala Thr Asn Lys Ala Phe Gln Gly Thr Ala Asp
 195 200 205
 Gln Arg Phe Tyr Arg Thr Gly Asp Leu Ala Arg Leu Leu Pro Asn Gly

11791

210		215		220
Glu Ile Glu Leu Phe Gly Arg Lys Asp Asp Gln Val Lys Ile Asn Gly				
225		230		235
His Arg Met Glu Leu Gly Glu Ile Glu Ser Val Ile Lys Gln Thr Asn				240
	245		250	255
Val Phe Arg Gln Cys Ala Val Ile Ala Ala Thr Val Leu Lys Lys Lys				
	260		265	270
Gln Leu Val Ala Phe Cys Ser Ser Ser Val Gln Thr Pro Gly Glu Ala				
	275		280	285
Thr Gly Glu Asp Leu Leu Leu Ala Pro Thr Glu Leu Pro Glu Val Asp				
	290		295	300
Gln Ile Lys Ala Gln Leu Thr Thr Leu Pro Gln Tyr Met Val Pro Thr				
305		310		315
Ile Trp Leu Pro Val Ser Lys Leu Pro Ser Leu Thr Ser Gly Lys Ile				320
	325		330	335
Asp Arg Lys Arg Leu Thr Ala Leu Val Glu Gly Met Ala Asp Asn Val				
	340		345	350
Leu Lys Ser Tyr Leu Pro His Ser Glu Thr Ser Glu Ile Cys Ser Glu				
	355		360	365
Ala Glu Arg Glu Leu Gln Ser Leu Trp Ser Ala Leu Phe Asp Thr Pro				
	370		375	380
Ala Glu Asp Ile His Ala Asn Ser Thr Phe His Ala Leu Gly Gly Asp				
385		390		395
Ser Ile Ser Ala Leu Asn Leu Gly Ser Met Leu Arg Arg Arg Gly Tyr				400
	405		410	415
Lys Ile Gln Ile Asn Asp Ile Leu Ser Arg Ser Thr Leu Arg Glu Gln				
	420		425	430
Ala Ala Leu Met Val Gln Gly Gln Pro Asn Gly Asp Ser Thr Ala Ala				
	435		440	445
Glu Ala Val Pro Gln Pro Val Phe Gln Pro Pro Glu Ala Val Tyr Glu				
	450		455	460
Arg Leu Val Glu Leu Gly Val Ser Arg Asn Asp Val Glu Asp Ile Tyr				
465		470		475
Pro Cys Ser Pro Gly Gln Ile Glu Phe Phe Thr Gln Gly Glu Lys Pro				
	485		490	495
Asp Arg Phe Trp Gln Leu Met Ala Val Arg Thr Leu Pro Asp Asp Leu				
	500		505	510
Asp Phe Asp Arg Trp Ile Tyr Leu Thr Thr Gln Leu Thr Lys Thr Asn				
	515		520	525
Gln Ile Leu Arg Ala Leu Tyr Leu Gln Thr Asp Ala Glu Asn Pro Gln				
	530		535	540
Thr Leu Val Gln Val Val Leu Lys His Pro Val Leu Asn Leu Ala Tyr				
545		550		555
Arg Ser Tyr Arg Thr Glu Glu Glu Lys Gln Ser Ile Leu Glu Ala Glu				
	565		570	575
Trp Gln Arg Pro Phe Asp Pro Ala Lys Pro Phe Val Arg Tyr Thr Leu				
	580		585	590
Leu Glu Asp Ser Gln Gly Thr Arg Ser Leu Val Ile Asn Leu His His				
	595		600	605
Ser Ser Tyr Asp Val Phe Thr Ala Gly Leu Glu Gly Gly Arg Ser Ile				
	610		615	620
Lys Arg				
625				

<210> 30856

<211> 87

<212> PRT

<213> A.fumigatus

<400> 30856

Val	Arg	Leu	Leu	Ile	Glu	Ala	Pro	Cys	Ser	Trp	Glu	Thr	Tyr	Tyr	Ala
1				5					10					15	
Arg	Thr	Leu	Ala	His	Leu	Ser	Ser	Lys	His	Gln	Pro	Asn	Ala	Arg	Pro
		20						25					30		
Thr	Pro	Thr	Ala	Asp	Ala	Asp	Ala	Asp	Ser	Ala	Glu	Ser	Glu	Ser	Glu
		35					40					45			
Thr	Glu	Ser	Val	Asp	Asp	Asp	Asp	Asp	Pro	Gly	Thr	Ser	Trp	Phe	Ser
	50				55						60				
Glu	His	Asn	Ala	Pro	Glu	Lys	Val	Leu	Arg	Phe	Leu	Thr	Asp	Glu	Ser
65					70					75					80
Phe	Pro	Ala	Ser	Ser	Pro	Thr									
				85											

<210> 30857

<211> 320

<212> PRT

<213> A.fumigatus

<400> 30857

Leu	His	Ala	Leu	Gln	Pro	Leu	Val	Lys	Thr	Ala	Phe	Glu	Tyr	Leu	Pro
1				5					10					15	
Ser	Glu	Thr	Glu	Ser	Pro	Val	Thr	Pro	Cys	Ser	Asp	Ser	Ser	Arg	Pro
		20						25					30		
Glu	Tyr	Ile	His	Val	Gly	Trp	Asp	His	Asn	Ser	Glu	Ile	Leu	Asp	Asp
		35				40						45			
Leu	Leu	Pro	Leu	Cys	Gln	Leu	Ile	Asp	Ser	Arg	Val	Ser	Gln	Gly	Lys
	50				55						60				
Lys	Val	Leu	Ile	His	Cys	Gln	Leu	Gly	Ala	Ser	Arg	Ser	Ala	Ser	Leu
65				70						75					80
Val	Ile	Ala	Tyr	Gly	Leu	Tyr	Lys	Asn	Arg	His	Leu	Asp	Phe	Asn	Ser
			85					90						95	
Met	Tyr	Glu	Ile	Val	Lys	Gly	Arg	Ser	Arg	Trp	Val	Gly	Pro	Asn	Met
		100						105					110		
Ser	Leu	Ile	Tyr	Gln	Leu	Thr	Asp	Phe	Arg	Ser	Arg	Leu	Gln	Gln	Leu
		115					120					125			
Ser	Gly	Thr	Ser	Lys	Pro	Ala	Pro	Glu	Glu	Trp	Phe	Val	Asn	Gly	Pro
	130					135					140				
Arg	Arg	Gly	Ser	Glu	Pro	Gln	Ser	Ser	Arg	Ser	Glu	Arg	Thr	Thr	Glu
145					150					155					160
Ala	Ser	Leu	Thr	Pro	Pro	Ser	Ser	Ser	Ser	Cys	Asn	Ser	Gly	Tyr	Ser
			165						170					175	
Arg	Ile	Ala	Thr	Pro	Ala	Ser	Trp	Ser	Gln	Thr	Ser	Ser	Gly	Thr	Leu
		180						185					190		
Ser	Val	Pro	Ser	Thr	Glu	Arg	Ala	Thr	Pro	Pro	Ser	Val	Ser	Pro	Trp
		195					200					205			
Arg	Ile	Pro	Lys	Ser	Leu	Ser	His	Lys	Arg	Ser	Leu	Ser	Pro	Arg	Pro
	210						215					220			
Leu	Pro	Leu	Arg	Gln	Arg	Phe	Glu	Thr	Ala	Gln	Thr	Ala	Ala	Lys	Asp
225					230					235					240
Val	Gly	Thr	Arg	Ser	Leu	Ala	Pro	Ala	Asp	Ala	Ile	Glu	Lys	Asp	Thr
			245						250					255	
Val	Glu	Asp	Pro	Leu	Asn	Leu	Phe	Ser	Pro	Arg	Thr	Ser	Gln	Phe	Leu

260	265	270
Ala Pro Ser Leu Ala Pro Pro Phe Pro Asp Gly Leu Glu Asp Arg Leu		
275	280	285
Pro Gly Gly Pro His Phe Arg Thr Glu Thr Ala Asp Pro Arg Ser Pro		
290	295	300
Pro Pro Gly Asn Glu Arg Leu Ile Met Arg Asn Ile Asp Glu Phe Leu		
305	310	315
		320

<210> 30858

<211> 70

<212> PRT

<213> A.fumigatus

<400> 30858

Ser Ser Phe Leu Phe Ile Leu Phe Ala Ile His Phe Arg Phe His Leu	
1	15
Ile Phe Gln Tyr Leu Pro Leu Cys Leu Leu Tyr Phe Asp Asp Ser Met	
20	30
Thr Lys Ala Gly Phe Asp Val Val Ile Cys Ile Leu Ile Pro Asn Leu	
35	45
Tyr Leu His Phe Phe Phe Leu Phe Asp Lys Trp Val Thr Gly Arg Leu	
50	60
Glu Ala Leu Leu Leu His	
65	70

<210> 30859

<211> 171

<212> PRT

<213> A.fumigatus

<400> 30859

Val Pro Val Arg Gln Ser His Ile Leu Ser Pro Gly Ile Leu Thr Ile	
1	15
Phe Ser Phe Arg Glu Ser Ser Trp Ala Leu Ser Asp Ile Ser Asn Gly	
20	30
Ser Arg Glu Thr Glu Thr Pro Leu Ala Met Ala Glu Pro Thr His Gln	
35	45
Thr Glu Ala Lys Lys Thr Met Thr Gly Phe Lys Pro Leu Ser Asn Ala	
50	60
Glu Asp Tyr Ser Leu Pro Ala Thr Ala Ser Asp Leu Ser Pro Arg Ala	
65	80
Glu Ala Ala Val Ala Asn Gly Leu Ser Leu Glu Thr Ala Asp Glu Asp	
85	95
His Glu Glu Val Asp Glu Asp Tyr Val Ala Val Asp Pro Asp Glu Ile	
100	110
Ser Asp Phe Ser Tyr Trp Leu Arg Arg Pro Pro Val His His Arg Thr	
115	125
Lys Leu Asp Glu Leu His Pro Phe Val Gln Thr Leu Thr Val Ser Asn	
130	140
Val Asp Asp Cys Val Glu Val Glu Asn Ala Phe Pro Glu Asn Glu Arg	
145	155
Cys Ser Arg Glu Lys Val Cys Asp Leu Val Asn	
165	170

<210> 30860

<211> 61

11794

<212> PRT

<213> A.fumigatus

<400> 30860

Ala	Ala	Pro	Gln	Val	His	Ser	Leu	Thr	Phe	Ser	Arg	Leu	Ser	Arg	Arg
1				5					10					15	
Thr	Gly	Asn	Pro	Ser	Asn	Phe	Gln	Pro	Phe	Pro	Val	Ile	Ser	Ala	Ile
		20					25					30			
Ala	Val	Thr	Thr	Val	Tyr	Leu	Gly	Thr	Arg	Ala	Pro	Val	Ser	His	Pro
		35					40					45			
Glu	Ser	Trp	Tyr	Ser	Tyr	His	Leu	Phe	Phe	Pro	Arg	Val			
	50					55					60				

<210> 30861

<211> 104

<212> PRT

<213> A.fumigatus

<400> 30861

Cys	Asp	Pro	Val	Ala	Ser	Arg	Thr	Thr	Trp	Gln	Ser	Pro	Thr	Tyr	Ile
1				5					10					15	
Lys	Val	Pro	Arg	Leu	Thr	Pro	Phe	Pro	Phe	Lys	Ser	Val	His	Lys	Thr
		20					25					30			
Lys	Ala	Thr	Pro	Thr	Pro	Thr	His	Ile	Leu	Arg	Thr	Met	Ala	Pro	Val
		35					40					45			
Leu	Lys	Lys	Tyr	Lys	Ala	Ala	Val	Asn	Ala	Glu	Pro	Gly	Trp	Phe	
	50					55				60					
Asp	Leu	Glu	Glu	Ser	Val	Arg	Arg	Thr	Ile	His	Trp	Ile	Asp	Glu	Ala
65					70					75					80
Gly	Lys	Ala	Gly	Cys	Lys	Phe	Ile	Ala	Phe	Pro	Glu	Leu	Cys	Lys	Ser
			85						90					95	
Pro	Leu	Arg	Val	Pro	Arg	Arg	His								
			100												

<210> 30862

<211> 104

<212> PRT

<213> A.fumigatus

<400> 30862

Ala	Met	Cys	Thr	Ser	Gly	Tyr	Ser	Val	Ser	Gly	Leu	Thr	Ala	Thr	Gln
1				5					10					15	
Leu	Val	Thr	Pro	Ala	Tyr	Ala	Ile	Glu	Thr	Gly	Thr	Phe	Thr	Leu	Ala
		20					25					30			
Pro	Trp	Gln	Thr	Ile	Thr	Ala	Glu	Gly	Leu	Lys	Leu	Asn	Thr	Pro	Pro
		35					40					45			
Gly	Lys	Glu	Leu	Glu	Asp	Pro	His	Ile	Tyr	Asn	Gly	His	Gly	Arg	Ile
	50					55					60				
Phe	Gly	Pro	Asp	Gly	Gln	Asn	Leu	Val	Ala	His	Pro	Asp	Lys	Asp	Phe
65					70					75					80
Gln	Gly	Leu	Leu	Leu	Val	Asp	Val	Ser	Arg	Ala	Val	His	Gly	Gly	Val
			85						90					95	
Phe	Ala	Phe	Ser	Gly	Leu	Thr	Gly								
			100												

<210> 30863

<211> 89
 <212> PRT
 <213> A.fumigatus

<400> 30863

Ile	Asp	Leu	Asp	Glu	Cys	His	Leu	Pro	Lys	Ala	Leu	Ala	Asp	Phe	Val
1				5					10					15	
Ser	Leu	Thr	Asp	Pro	Ala	Pro	Met	Ser	Glu	Ala	Asn	Thr	Ser	Gln	Gly
			20					25					30		
Gly	His	Tyr	Met	Arg	Pro	Asp	Leu	Ile	Arg	Leu	Leu	Val	Asp	Thr	Asn
		35					40					45			
Arg	Lys	Asp	Leu	Val	Val	His	Glu	Asp	Arg	Val	Asn	Gly	Gly	Val	Ala
		50				55					60				
Tyr	Thr	Arg	Thr	Val	Asp	Arg	Val	Gly	Leu	Ser	Ala	Pro	Leu	Asp	Ala
65					70					75					80
Met	Asn	Gln	Gly	Pro	Glu	Asp	Glu	Lys							
					85										

<210> 30864

<211> 229

<212> PRT

<213> A.fumigatus

<400> 30864

Val	Thr	Pro	Ser	Cys	Ser	Ser	Ala	Ala	Leu	Ile	Thr	Asp	Ser	Thr	Gly
1				5					10					15	
Ile	Pro	Gly	Tyr	Pro	Tyr	Trp	Ala	Trp	Lys	Val	Asn	Tyr	Gln	Glu	Ser
			20					25					30		
Leu	Pro	Leu	Leu	Lys	Lys	Tyr	Arg	Glu	Asn	Ser	Leu	Pro	Ser	Asp	Ser
			35				40					45			
Glu	Glu	Met	Arg	Arg	Ile	Arg	Asn	Ala	Ala	Arg	Thr	Asn	Lys	Ile	Tyr
		50				55					60				
Val	Ser	Leu	Gly	Tyr	Ser	Glu	Val	Asp	Leu	Ala	Ser	Leu	Tyr	Thr	Thr
65					70				75						80
Gln	Val	Leu	Ile	Ser	Pro	Ser	Gly	Asp	Ile	Leu	Asn	His	Arg	Arg	Lys
				85					90					95	
Ile	Arg	Ala	Thr	His	Val	Glu	Arg	Leu	Val	Phe	Gly	Asp	Gly	Thr	Gly
			100					105					110		
Asp	Thr	Thr	Glu	Ser	Val	Thr	Gln	Thr	Glu	Ile	Gly	Arg	Val	Gly	His
			115				120					125			
Leu	Asn	Cys	Trp	Glu	Asn	Met	Asn	Pro	Phe	Met	Lys	Ala	Tyr	Ala	Ala
		130				135					140				
Ala	Leu	Gly	Glu	Gln	Val	His	Val	Ala	Ala	Trp	Pro	Leu	Tyr	Pro	Gly
145					150					155					160
Lys	Glu	Thr	Leu	Lys	Tyr	Pro	Asp	Pro	Phe	Thr	Asn	Val	Ala	Glu	Ala
				165					170					175	
Asn	Ala	Asp	Val	Ser	Asn	Val	His	Ile	Trp	Val	Phe	Arg	Leu	Trp	Thr
			180					185					190		
Asn	Ser	Asp	Pro	Ala	Gly	His	Ala	Arg	Val	Cys	His	Arg	Asn	Arg	Asp
		195					200					205			
Phe	His	Ser	Gly	Pro	Met	Ala	Asp	His	His	Arg	Arg	Gly	Ala	Gln	Ala
		210				215						220			
Gln	His	Ala	Pro	Gly											
225															

<210> 30865

<211> 79
 <212> PRT
 <213> A.fumigatus

<400> 30865

Tyr	Gln	Ser	Pro	Trp	Arg	Leu	Ala	Gly	Met	Trp	Ser	Asp	Ala	Thr	Ile
1				5					10					15	
Lys	Asp	Val	Ile	Leu	Ile	Phe	Met	Val	Gln	Thr	Trp	Leu	Asp	Asp	Ser
		20						25					30		
Thr	Pro	Pro	Pro	Gly	Asp	Phe	Ala	Asn	Cys	Lys	Val	Cys	Asn	Ser	Pro
		35					40					45			
Met	Leu	Leu	Leu	Leu	Glu	Leu	His	Gly	Asp	Leu	Pro	Asp	His	Phe	Pro
	50					55					60				
Asp	Asp	Glu	Arg	Arg	Leu	Tyr	Ile	Ser	Gly	Ser	Ser	Pro	Arg	Asp	
65					70					75					

<210> 30866

<211> 526

<212> PRT

<213> A.fumigatus

<400> 30866

Pro	Phe	Leu	Pro	Arg	Ser	Ser	Val	Arg	Lys	Asn	Asn	His	Leu	Ala	His
1				5					10					15	
Leu	Thr	Thr	Ala	Gln	Asn	Gly	Leu	Gln	Leu	Ser	Val	Asn	Asn	Ser	Lys
			20					25					30		
Ser	Ser	Phe	Ser	Ser	Arg	Arg	Leu	Ile	Ser	Ile	Gln	Glu	Leu	Gly	Leu
		35				40						45			
Gln	Asp	His	Gln	Leu	Arg	Thr	Leu	Cys	Ala	Ser	Leu	Gln	Ile	Pro	Cys
	50					55					60				
Asn	Cys	Pro	Val	Asp	Ile	Thr	Val	Tyr	Glu	Arg	Asn	Ser	Tyr	Ile	Gly
65				70					75					80	
Gly	Arg	Ser	Thr	Thr	Val	Asn	Ala	Leu	Asp	Asp	Pro	Lys	Tyr	Pro	Val
				85					90					95	
Glu	Leu	Gly	Ala	Ser	Ile	Phe	Val	Ser	Val	Asn	Tyr	Asn	Leu	Val	Asn
			100					105					110		
Ala	Ser	Lys	Glu	Leu	Gly	Leu	Ala	Val	Arg	Ser	Ala	Asp	Gln	Ala	Arg
		115				120						125			
Pro	Arg	Glu	Ser	Asp	Asp	Thr	Ile	Gly	Val	Trp	Asp	Gly	Glu	Gln	Phe
		130				135					140				
Val	Leu	Val	Leu	Gln	Asp	Thr	Tyr	Ser	Trp	Trp	Asn	Ile	Ala	Lys	Leu
145					150					155				160	
Leu	Trp	Arg	Tyr	Gly	Leu	Ser	Pro	Ile	Arg	Thr	Gln	Asn	Leu	Met	Arg
			165						170					175	
Ser	Thr	Val	Asn	Lys	Phe	Leu	Arg	Leu	Tyr	Asp	Ser	Pro	Tyr	Phe	Pro
		180						185					190		
Phe	Arg	Ser	Leu	Thr	Ser	Ala	Ala	Ala	Val	Asp	Leu	Leu	Asn	Thr	
		195				200					205				
Thr	Ala	Val	Pro	Gly	Glu	Ala	Phe	Leu	Gln	Asp	Gly	Gly	Ile	Ser	Ala
		210				215					220				
Glu	Phe	Ser	Arg	Asp	Val	Ile	Gln	Ala	Ser	Thr	Arg	Val	Asn	Tyr	Gly
225				230						235				240	
Gln	Asn	Leu	Pro	Leu	Ile	His	Gly	Leu	Glu	Thr	Met	Val	Cys	Met	Ala
				245					250				255		
Thr	Asp	Gly	Ala	Val	Ser	Ile	Glu	Gly	Gly	Asn	Trp	Gln	Ile	Phe	Asp
			260					265					270		

Gly Met Leu Arg Ser Ser Glu Ala Asn Val Arg Leu Asn His Ser Val
 275 280 285
 Thr Ser Ile Gln Arg Asn Ala Asp Gly Thr Leu Ala Val Gly Phe Lys
 290 295 300
 Ala Thr Glu Val Glu Glu Asn Ser Val Phe Glu Glu Val Val Ile Ala
 305 310 315 320
 Gly Pro Leu Gln Tyr Ser Gly Ile Ala Ile Glu Pro Pro Leu Gln His
 325 330 335
 Thr Pro Asp Gln Ile Pro Tyr Val Lys Leu His Val Thr Leu Phe Ser
 340 345 350
 Ser Pro His Leu Leu Ser Pro Arg Phe Phe Asn Leu Pro Ser Asn Lys
 355 360 365
 Arg Ala Pro Glu Thr Val Leu Thr Thr Leu Pro Arg Gly Val Asp Leu
 370 375 380
 Gly Ser Asn Lys Ala Gly Val Gly Pro Ala Gly Phe Trp Ser Ile Ser
 385 390 395 400
 Thr Leu Arg Thr Val Gln Ala Pro Arg Ser Asp Gly Thr His Glu Lys
 405 410 415
 Gln Tyr Val Tyr Lys Val Phe Ser Pro Glu Arg Leu Asn Ala Ser Phe
 420 425 430
 Val Gly Ala Ile Leu Gly Leu Glu Asn Lys Glu Tyr Ser Val Asp Ala
 435 440 445
 Pro Ile Gly Asp Leu Pro Lys Asp Asp Val Ser Trp His Tyr Glu Lys
 450 455 460
 Ile Trp Asn Pro Tyr Pro Phe Leu Tyr Pro Arg Val Thr Phe Glu Asp
 465 470 475 480
 Thr Met Ile Ala Pro Asn Leu Trp Tyr Thr Gly Gly Ile Glu Ser Phe
 485 490 495
 Ile Ser Thr Met Glu Thr Ser Ala Leu Met Gly Lys Asn Val Ala Ser
 500 505 510
 Leu Ile Ser Gln Val Tyr Thr Leu Gly Arg Lys His Arg Val
 515 520 525

<210> 30867

<211> 239

<212> PRT

<213> A.fumigatus

<400> 30867

Pro Arg Gly Gly Thr Ala Ala Ala Leu Ile Cys Arg Asp Pro Trp Asn
 1 5 10 15
 Leu Gln Pro Pro Gly Ala Gly Ala His Gly Pro Leu His Gly Thr Arg
 20 25 30
 Pro Asn Pro Gly Tyr Ser Arg Arg Asp Tyr Ile Arg Ala Gly Trp Cys
 35 40 45
 Gly Ile Asp Pro Gly Arg Phe Val Pro Ala Gln Thr Asp Gly Gln Arg
 50 55 60
 Val Glu Gly Lys Pro Thr Ala Gly Ala Glu Gln Ile Val Tyr Val Pro
 65 70 75 80
 Phe Pro Ala Ala Pro Ser Gly Met Ala Glu Ile Asn Leu Arg Val Ser
 85 90 95
 Leu Thr Val Ser Met Gly Arg Ile Ala Gln Ser Asp Met His Leu Ser
 100 105 110
 Asp Gly Leu Arg Ile Pro Arg Gly Thr Thr Leu Met Val Ser Ala His
 115 120 125
 Ala Met Trp Glu Pro Glu Ile Tyr Pro Asp Pro Arg Arg Tyr Asp Gly

11798

130		135		140
Tyr Arg Phe Tyr Lys	Leu Arg Gln Val Pro Gly	Gln Glu Gly Gln His		
145	150	155		160
Gln Leu Val Ser Ala	Thr Glu Lys His Met Gly	Phe Gly Tyr Gly Lys		
	165	170		175
His Ala Cys Pro Gly	Arg Phe Phe Ala Ala	Glu Ile Lys Val Ala		
	180	185		190
Leu Cys His Ile Leu	Leu Lys Tyr Asp Leu	Glu His Arg Gly Gly Gly		
	195	200		205
Pro Pro Pro Arg Val	Trp Ser Gln Gly Ile His	Leu Phe Pro Asp Pro		
	210	215		220
Thr Ala Arg Ile Arg	Val Arg Arg Arg Lys	Glu Glu Ile Ser Leu		
225	230	235		

<210> 30868

<211> 217

<212> PRT

<213> A.fumigatus

<400> 30868

Asp Gln Pro Leu Ser	Asn Gly Ser Gln Thr Arg	Arg Ala Asp Gly Ile
1	5	10
Gln Ser Leu Tyr Trp	Thr Arg Glu Cys Gly Asp	Pro Lys Trp His Asn
	20	25
Val Ile Ile Thr Tyr	Thr His Asn Val Tyr Arg	Ala Ala Gln Ala Leu
	35	40
His Phe Trp Pro Lys	Phe Leu Arg Pro Ile Val	Ala Arg Phe Leu Pro
	50	55
Ala Cys Gln Thr Leu	Gln Ala Gln Ile Ala Glu	Ala Arg Glu Ile Leu
	65	70
Glu Pro Leu Val Ala	Gln Arg Arg Ala Asp Arg	Ala Cys Arg Ala Ala
	85	90
Gln Gly Lys Pro Val	Pro Ser Arg Ala Asp Val	Ile Asp Trp Leu Glu
	100	105
Asp Ser His Gly Asp	Gln Pro Tyr Asp Pro Val	Ala Ala Gln Leu Leu
	115	120
Leu Ser Phe Ala Ala	Ile His Gly Thr Ser Asn	Leu Leu Ala Gln Ala
	130	135
Leu Met Asp Leu Cys	Thr Ala Pro Asp Leu Ile	Arg Asp Ile Arg Ala
	145	150
Glu Ile Thr Ser Val	Leu Gly Gly Ala Gly Leu	Thr Arg Ala Ala Leu
	165	170
Tyr Arg Leu Lys Leu	Met Asp Ser Ala Leu Lys	Glu Ser Gln Arg Leu
	180	185
Ala Pro Asn Arg Leu	Cys Thr Ser Pro Ser Leu	Pro Pro Arg Leu Glu
	195	200
Trp Pro Arg Leu Ile	Ser Gly Phe Leu	
	210	215

<210> 30869

<211> 70

<212> PRT

<213> A.fumigatus

<400> 30869

Asp Asp His Ile Glu Ser Val Gly Asn Ala Tyr Ser Phe Ala Lys Pro

11799

1		5		10		15									
Cys	Lys	Pro	Ala	Lys	Ile	Ser	Pro	Ala	Leu	Val	Pro	Leu	Leu	Met	Gly
		20						25					30		
Ser	Asn	Thr	Gly	Gly	Ile	Tyr	Gly	Thr	Val	Pro	Pro	Ser	Ala	Ala	Leu
		35					40					45			
Val	Ile	Leu	Ser	Ser	Gly	Ala	Tyr	Asn	Gly	Cys	Ser	Ser	Arg	Thr	His
	50					55					60				
Leu	Asp	Lys	Met	Asn	Glu										
65					70										

<210> 30870

<211> 227

<212> PRT

<213> A.fumigatus

<400> 30870

Leu	Cys	Pro	Thr	Glu	Leu	Thr	Val	Cys	Arg	Leu	Leu	Pro	Glu	Ser	Pro
1				5				10					15		
Arg	Tyr	Leu	Ile	Ser	Lys	Asp	Arg	His	Glu	Glu	Ala	Phe	Asp	Ile	Leu
		20					25					30			
Thr	Lys	Tyr	His	Ala	Glu	Gly	Asp	Arg	Ser	Ser	Val	Ile	Val	Arg	Ala
	35					40					45				
Glu	Ile	Ala	Gln	Ile	Gln	Arg	Thr	Ile	Lys	Leu	Glu	Leu	Glu	Glu	Ala
	50				55					60					
Lys	Gln	Thr	Trp	Trp	Asp	Met	Phe	Arg	Thr	Ala	Gly	Met	Arg	Arg	Arg
65			70					75					80		
Leu	Phe	Ile	Thr	Ala	Phe	Leu	Gly	Leu	Phe	Thr	Gln	Trp	Ser	Gly	Asn
		85					90					95			
Thr	Leu	Ile	Ser	Phe	Val	Pro	Leu	Phe	Cys	Leu	Leu	Asp	Met	Phe	Leu
		100					105					110			
Leu	Ile	Asn	Ala	Arg	Tyr	Tyr	Leu	Ser	Asp	Leu	Leu	Asp	Met	Val	Asn
	115					120					125				
Ile	Thr	Asp	Gly	Val	Val	Lys	Ser	Lys	Ile	Asn	Ile	Gly	Ile	Ala	Cys
	130				135						140				
Trp	Gly	Leu	Val	Cys	Gly	Thr	Thr	Leu	Ala	Leu	Thr	Val	Pro	Arg	Phe
145				150				155						160	
Lys	Arg	Arg	Thr	Met	Tyr	Ile	Thr	Cys	Ala	Cys	Ser	Leu	Leu	Cys	Val
			165				170						175		
Tyr	Ile	Ala	Trp	Thr	Ile	Ser	Met	Glu	Arg	Phe	Leu	Ala	Thr	His	Ala
		180				185						190			
Lys	Ala	Ala	Ala	Ile	Leu	Thr	Ile	Leu	Phe	Ile	Phe	Cys	Tyr	Ser	Pro
	195					200					205				
Ala	Tyr	Asn	Leu	Gly	Tyr	Asn	Ala	Leu	Thr	Tyr	Ser	Lys	Pro	Ser	Pro
	210				215						220				
Cys	Ala	Arg													
225															

<210> 30871

<211> 92

<212> PRT

<213> A.fumigatus

<400> 30871

Tyr	Ile	Pro	Thr	Asp	Trp	Ser	Ala	Tyr	Leu	Ile	Glu	Ile	Phe	Pro	Tyr
1				5				10					15		
Phe	Gly	Arg	Ser	Arg	Gly	Leu	Ser	Trp	Phe	Gln	Phe	Tyr	Gly	Arg	Gly

[illegible]

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<210> 30872
<211> 134
<212> PRT
<213> A.fumigatus
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<210> 30873
<211> 714
<212> PRT
<213> A.fumigatus
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<400> 30873															
Arg	Arg	Ser	Arg	Lys	Ser	Trp	Thr	Phe	Pro	Arg	Ala	Tyr	Gln	Thr	Lys
1				5					10					15	
Ala	Met	Asp	Pro	Ile	Leu	Asp	Gln	Trp	Thr	Glu	Val	Ala	Lys	Thr	Leu
			20					25					30		
Glu	Ile	Ser	Cys	Pro	Arg	Ile	Ser	Ile	Val	Ser	Asn	Val	Phe	Gly	Arg
		35					40					45			
Leu	Ile	Arg	Pro	Gly	Glu	Arg	Ala	Phe	Thr	Phe	Glu	Tyr	Phe	Ala	Met
	50					55				60					
His	Cys	Arg	Gln	Thr	Val	Ala	Phe	Asn	Ala	Gly	Ile	Asp	Glu	Leu	Ser
65					70					75				80	
Leu	Ser	Asp	Met	Glu	Pro	Glu	Leu	Ser	Arg	Trp	Val	Glu	Ile	Gly	Pro
				85					90					95	
His	Pro	Ser	Leu	Leu	Pro	Met	Val	Ser	Thr	Lys	Leu	Asp	Arg	Asp	Ile
			100					105					110		
Thr	Asp	Leu	Leu	Pro	Ser	Leu	Arg	Lys	Gly	Thr	Pro	Ala	Ser	Ala	Ala

		115					120					125				
Ile	Ala	Arg	Leu	Leu	Cys	His	Phe	Tyr	Gln	Thr	Thr	Thr	Ala	Leu	Asn	
	130					135					140					
Trp	Arg	Lys	Ala	Phe	Asp	Glu	Ala	Ser	Leu	Thr	Thr	Leu	Pro	Ala	Met	
145					150					155					160	
Pro	Phe	Ser	Gly	Gln	Glu	Phe	Gly	Ile	Tyr	Tyr	Pro	His	Glu	Arg	Thr	
				165					170					175		
Gln	Lys	Asn	Leu	Gly	Glu	Gly	Asp	Gln	Asn	Thr	Glu	Ser	His	Thr	Gly	
			180				185						190			
His	Thr	Phe	Leu	Ser	Arg	Ile	Ile	Gln	Arg	Pro	Ser	Glu	Ala	Asn	Arg	
		195					200					205				
Glu	Ala	Ile	Phe	Glu	Thr	Pro	Ile	Ala	Val	Phe	Lys	Asp	Tyr	Ile	Leu	
	210					215					220					
Gly	His	Arg	Val	Cys	Glu	Ser	Ala	Leu	Cys	Pro	Ala	Ser	Val	Tyr	His	
225				230					235						240	
Glu	Ile	Val	Leu	Ala	Ala	Ser	Lys	Trp	Ala	Gln	Leu	Asp	Gln	Gly	Glu	
			245						250					255		
Asp	Val	Ile	Arg	Thr	Leu	Ser	Asn	Val	Leu	Tyr	Ser	Ala	Pro	Leu	Leu	
			260					265				270				
Tyr	Ser	Glu	Asp	Ser	Ser	Ala	Ile	Val	Arg	Val	Ser	Ile	Lys	Pro	Ser	
		275					280					285				
Gly	Asp	His	Lys	Ala	Gly	Tyr	Ser	Phe	Thr	Val	Ala	Ser	Tyr	Asn	Ala	
	290					295					300					
Gly	Ser	Asp	Pro	Gln	Gln	Gln	Val	Ile	His	Cys	Gln	Gly	Gln	Leu	Lys	
305				310					315						320	
Ile	Arg	Ser	Thr	Ala	His	Ala	Gln	Lys	Tyr	Ala	Arg	Leu	Val	Pro	Leu	
			325						330					335		
Met	Glu	Arg	Gln	Arg	Glu	Arg	Phe	Gln	Arg	Ile	Asp	Gln	Ser	Ser	Thr	
			340					345				350				
Gln	Val	Phe	Leu	Arg	Lys	Ala	Met	Tyr	Glu	Lys	Val	Phe	Thr	Arg	Val	
		355					360					365				
Val	Thr	Tyr	Ser	Glu	Leu	Tyr	Gln	Met	Val	Gln	Ser	Val	Arg	Ile	Asp	
	370					375					380					
Gln	Gly	Glu	Ala	Leu	Ala	Val	Cys	Arg	Phe	Pro	Asn	Ser	Gln	Arg	Glu	
385				390						395					400	
Pro	Ser	Gly	Ala	Ser	Thr	Val	Leu	Met	Asp	Val	Leu	Leu	His	Val	Ala	
			405						410					415		
Gly	Phe	Val	Ala	Asn	Leu	Asn	Ile	Glu	Asn	Glu	Glu	Val	Cys	Ile	Cys	
			420					425				430				
Lys	Glu	Val	Lys	Ser	Ala	Thr	Met	Thr	Arg	Gly	Phe	Pro	Phe	Ala	Asp	
		435					440					445				
Thr	Ala	Phe	Glu	Val	Tyr	Cys	Asn	Asn	Leu	Glu	Ile	Ala	Ala	Ser	Asn	
	450					455					460					
Val	Val	Ile	Ala	Asp	Ala	Tyr	Ala	Val	Asp	Ser	Arg	Gly	Val	Ile	Ala	
465				470						475						

565 570 575
 Leu Ser Ser Asn Leu Ser Ala Lys Leu His Thr Ser Ile Asp Ile Ser
 580 585 590
 Ala Leu Glu Glu Cys Glu Thr Val Glu Asp Ile Glu Gln Leu Cys Ser
 595 600 605
 Asp Asp Ile Gly Gln Ser Gly Ala Thr Pro Ile Ser Glu Ala Glu Thr
 610 615 620
 Val Asp Ser Val Ala Met Pro Ile Thr Pro Ala Thr Pro Ala Tyr Lys
 625 630 635 640
 Leu Leu Ile Ala Ser Ile Ile Ala Glu Thr Cys Gly Ala His Ile Thr
 645 650 655
 Ser Val Lys Pro Asp Val Glu Leu Asp Ala Leu Gly Ile Asp Ser Leu
 660 665 670
 Met Met Ile Glu Leu Glu Ala Arg Leu Gln Ser Pro Ser Asn Pro Lys
 675 680 685
 Lys Val Ser Ser Leu Glu Leu Ser Glu Cys Arg Thr Val Arg Asp Ile
 690 695 700
 Glu Arg Leu Val Gly Pro Tyr Ile Ala Lys
 705 710

<210> 30874
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 30874
 Gly Ser Phe Leu Arg Gly Phe Trp Pro Leu Trp Glu Tyr Pro Ala Leu
 1 5 10 15
 Ile Gly Lys Leu Phe Tyr Ile Tyr His Ile Gly Gln Ser Ser Lys Ala
 20 25 30
 Tyr Trp Val Pro Phe Gln His Gly Leu Ser Ser Glu Tyr Val Ser
 35 40 45
 Phe Tyr Leu Pro Gly Ser Tyr Leu Ile Ala Ala Cys Phe Arg Gly Lys
 50 55 60
 Trp Pro Arg Asp
 65

<210> 30875
 <211> 118
 <212> PRT
 <213> A.fumigatus

<400> 30875
 Cys Glu Arg Thr Asn Arg Lys Ile Pro Trp Arg Leu Ser Arg His Gln
 1 5 10 15
 Lys Ala Arg Gln Arg Lys Arg Leu Arg Ala Val Asp Arg Val Val Asp
 20 25 30
 Thr Leu Ser Ala Ala Leu Arg Arg Asn Gly Gln Ser Thr Lys Ala Ile
 35 40 45
 Asp Arg Trp Tyr Ala Glu Met Pro Arg Glu Glu Glu Met Leu Pro Lys
 50 55 60
 Asp Lys Tyr Thr Leu Phe Asp Lys Lys Glu Lys Thr Tyr Arg Lys Gly
 65 70 75 80
 Ile His Ser Thr Phe Val Ser Thr Leu Ser Leu Thr Cys Ser Gln Gly
 85 90 95
 Gly Cys Met Arg Met Leu Thr Ile Phe Phe Lys Asn Cys Pro Ser Gly

11803

100
Gln Glu Ser Ala Ser Ala
115

105

110

<210> 30876
<211> 110
<212> PRT
<213> A.fumigatus

<400> 30876
Arg Glu Phe Trp Cys His Phe Gln Arg Val Arg Gln Leu Trp Ala Trp
1 5 10 15
Thr Ala Ala Ala Ile Ala Ala Thr Glu Arg Gln Glu Arg Trp Ala Gly
20 25 30
Pro Ala Pro Leu Phe Val Cys Thr Tyr Ser Lys Ile Thr Val Thr Met
35 40 45
Arg Arg Gln Asp Ile Thr Asp Phe Ile Phe Ile Lys Thr Asn Met Leu
50 55 60
Val Ser Cys His Ile Ile Tyr Met Met Ala Trp Asp Ser Ala Arg Lys
65 70 75 80
Ile Ser Ser Ser Phe Ser Phe Val Trp Pro Lys Tyr Gln Glu Thr Val
85 90 95
Cys Ser Tyr Ala Asp Ile Leu Leu Pro Ser Asp Val Leu Leu
100 105 110

<210> 30877
<211> 150
<212> PRT
<213> A.fumigatus

<400> 30877
Arg Asp Gly Leu Ala Val Trp Asn Gln Val His Val Lys Asp Leu Ala
1 5 10 15
Arg Gly Tyr Leu Thr Leu Leu His Trp Leu Glu Gln Thr Ser Cys Glu
20 25 30
Glu Val Ala Glu Asn Pro Tyr Phe Phe Cys Glu Asn Gly Glu Glu Leu
35 40 45
Ser Trp Gly Gln Cys Ala Ala Glu Ile Gly Arg Ile Leu Tyr Lys Ala
50 55 60
Gly Lys Val Ala Asp Pro Thr Pro Lys Thr Ile Pro Thr Glu Leu Tyr
65 70 75 80
Asn Asp Leu Phe Gly Lys Tyr Ser Gly Leu Val Ile Gly Ser Asn Ala
85 90 95
Arg His Arg Ala Asn Arg Leu Arg Lys Leu Gly Trp Glu Pro Arg Glu
100 105 110
Lys Arg Thr Phe Ala Ser Leu Ala Glu Asp Glu Ile Pro Leu Ile Leu
115 120 125
Gln Glu Thr Gly Glu Phe Thr Gly Tyr Ala Ala Pro Val Ala Ser Gly
130 135 140
Lys Phe Glu Gly Lys Lys
145 150

<210> 30878
<211> 313
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE

<222> (270)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30878

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Thr Ser Leu Asp Gly Asn Met His Glu Cys Leu Leu Ile Gln Pro Arg
1          5          10          15
Thr Leu Thr Arg Ser Thr Gly Ser Val Gly Leu Ile Asn Phe Glu Val
          20          25          30
Ile Asn Pro Leu Tyr Ser Arg Cys Thr Arg Ala Leu Val Leu Trp Thr
          35          40          45
Pro Thr Thr Glu Asn Ala Gly Thr Pro Glu Gln Arg Ile Lys Ala Ser
          50          55          60
Ser His Ser Pro Val Leu Ala Leu Phe Ser Thr Arg Arg Ala Leu Val
65          70          75          80
Ser Arg Gln Thr Trp Arg Arg Asn Gln Ser Thr Lys His Ile Pro Gly
          85          90          95
Thr Pro Asp Ala Glu Thr Ile Pro Ile Arg His Gln Gln Leu Leu Arg
          100          105          110
Lys Leu Gly Trp Arg Leu Leu Pro Leu Cys Ala Leu Ile Tyr Leu Leu
          115          120          125
Asn His Leu Asp Cys Ser Asn Ile Gly Asn Ala Lys Val Leu Asp Ala
          130          135          140
Glu Thr Gly Glu Gln Thr Gly Met Thr Asp Thr Gly Tyr Ser Ile Thr
145          150          155          160
Leu Thr Gln Phe Ala Val Ala Tyr Ala Leu Phe Asp Val Pro Ser Asn
          165          170          175
Trp Ile Leu Lys Arg Tyr Ala Arg Pro Ala Tyr Trp Leu Gly Thr Leu
          180          185          190
Met Leu Cys Trp Gly Ala Val Thr Leu Gly Phe Ala Arg Val Asp Asn
          195          200          205
Arg Phe Thr Val Met Val Leu Arg Val Val Ile Gly Val Leu Glu Ala
          210          215          220
Gly Asn Leu Pro Trp Asn Gly Leu Pro His His Leu Leu Val Pro Thr
225          230          235          240
Gly Arg Ala Phe His Pro His Cys Leu His Ser Arg Asn Arg Ala Thr
          245          250          255
Leu Ala Gly Ala Phe Gly Arg Cys Ile Ala Cys Gly Val Xaa Phe Leu
          260          265          270
Asn Gly Lys Gly Gly Leu Glu Glu Phe Arg Trp Leu Phe Ile Ile Glu
          275          280          285
Gly Gly Ser Thr Val Leu Ile Ala Pro Leu Val Phe Leu Gly Phe Cys
          290          295          300
Leu Thr Thr His Pro Arg Arg Ser Gly
305          310

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<210> 30879

<211> 444

<212> PRT

<213> A.fumigatus

<400> 30879

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Leu Val Leu Thr Ile Ser Met His Tyr Cys Gln Ser Ser Ala Lys Val
1          5          10          15

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11805

Phe Gly Ala Lys Gly Glu Lys Arg Trp Arg His Ser Ala Lys Leu Leu
 20 25 30
 Val Ser Ser Leu Ala Cys Ile Glu Ser Lys Gln Arg Ser Val Asn Met
 35 40 45
 Ala Tyr Pro Phe Arg Arg Ala Gly Glu Lys Leu Lys Thr Val Ala Lys
 50 55 60
 Met Asp Thr Trp Val Arg Asp Gln Ser Arg Glu Gln Ser Thr Thr Thr
 65 70 75 80
 Lys Pro Pro Thr Arg Cys Tyr Leu Leu Glu Leu Pro Thr Glu Leu Leu
 85 90 95
 Leu Glu Ile Ile Ser His Leu Ser Val Ile Pro Glu Thr Cys Leu Ala
 100 105 110
 Leu Thr Cys Lys Arg Leu Phe Ala Ile Ser Gly Ala Ile Phe Thr Ser
 115 120 125
 Val Arg Tyr Arg Asn Cys Leu Ile Ser Phe Ala His Gly Leu Lys Ser
 130 135 140
 Thr Ser Leu Ile Trp Pro Ser Arg Phe Ser Gln Asp Phe Ala Pro Leu
 145 150 155 160
 Phe His His Tyr Arg Asn Gly His Asn Phe Val Thr Thr Arg Trp Gln
 165 170 175
 Leu Ile Ser Ile Leu Glu Asn Ser Arg Trp Trp Ala Cys Ser Lys Cys
 180 185 190
 Leu Lys Leu His Pro Arg Asp Ala Phe Ser Ser Arg Glu Leu Lys Arg
 195 200 205
 Lys Pro Glu Asp Arg Ala Cys Leu Leu Gly Asn Phe Ala Gly Ile Val
 210 215 220
 Asp Leu Cys Pro Cys Lys Lys Leu Thr Phe Arg Asp Lys Met Asp Leu
 225 230 235 240
 Val Glu Leu Leu Lys Val Arg Gln Arg Ser Val Ala Asp Leu Gln Ser
 245 250 255
 Gln Phe Gly Ala Ser Ile Gln Gln Arg Phe Cys Trp His Ser Cys Thr
 260 265 270
 Lys Asp Tyr Gly Pro Thr Gln Leu Gln Ile Glu Ile Tyr Pro Glu Leu
 275 280 285
 Asp Asp Gln Asp Gln Leu Arg Ile Lys Thr Glu Tyr Arg Leu Thr Thr
 290 295 300
 Glu Ser Gly Lys Leu Gly Lys Glu Glu Tyr Ile Thr Pro Arg Phe Gly
 305 310 315 320
 Cys Ala His Arg Ser Val Asp Leu Trp Leu Ser Ser Val Cys Gln Thr
 325 330 335
 Thr Val Cys Gln Ser Leu Asp Ser Ile Cys Ala Ser Cys Lys Arg Ile
 340 345 350
 Ser Ile Cys Asn Ser Cys Lys Ser Val Leu Lys Cys Pro Arg Arg Gln
 355 360 365
 Pro Ser Arg Val Asp Gln Asp Ser Gly Lys Ala Thr Tyr His Phe Trp
 370 375 380
 Thr Glu Arg Cys Leu Gly Gly Thr Thr Ser Thr Pro Asp Gln Met Trp
 385 390 395 400
 Ala Ser Gln Arg Ile His Pro Ala Glu Asn Ser Val Glu Val Asp Asn
 405 410 415
 Cys Ser Glu Ala Cys Pro Trp Thr Val Arg Glu His Pro Pro Ser Val
 420 425 430
 Phe Thr Thr Gly Leu Glu Gly Ser Thr Gly Ala Leu
 435 440

<210> 30880

<211> 456

<212> PRT

<213> A.fumigatus

<400> 30880

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Leu Leu Thr Trp Pro Ser Ser Ser Leu Leu Gly Tyr Ser Ala Ser Leu
1      5      10      15
Arg Phe Gln Pro Thr Lys Arg Pro Gln Leu Ala Ala Gln Lys Pro Lys
20      25      30
Pro Lys Pro Ala Leu Pro Lys Ser Thr Pro Gly Ala Ala Ser Ala Pro
35      40      45
Ala Pro Pro Val Lys Thr Thr Leu Ala Asp Trp Ala Ala Thr Glu Glu
50      55      60
Asp Asp Val Asn Gly Phe Tyr Ile Gly Glu Lys Arg Gln Arg Gly Gly
65      70      75      80
Arg Lys Lys Arg Lys Lys Asn Arg Glu Ala Gln Ala Phe Val Gln Asn
85      90      95
Trp Asp Asp Ile Tyr Asp Pro Ser Arg Pro Asn Ile Tyr Glu Glu Tyr
100      105      110
Lys His Ser Asp Glu Gln Ile Ala Glu Val Arg Glu Trp Lys Asp Arg
115      120      125
Leu Tyr Ala His Arg Met Ala Arg Ser Pro Ser Arg Ser Ser His Ser
130      135      140
Ala Asp Glu Ser Arg Pro Met Asn Ser Lys Leu Phe Phe Ala Trp Arg
145      150      155      160
Ser Thr Val Lys Asn Ala His Glu Phe Phe Ala Glu Gln Phe Ala Pro
165      170      175
Pro Gln Ser Phe Ala Pro Pro Pro Asn Leu Asn Asp Ile Pro Pro Ala
180      185      190
Pro Leu Asp Glu Ala Thr Gly Asp Asp Ala Phe Ala Arg Arg Ala Arg
195      200      205
Met Thr Ala Gly Gln Ser Asp Ala Leu Met Ser Gly Arg Thr Pro Pro
210      215      220
Ala Pro Pro Pro Pro Pro Glu Glu Ala Pro Ala Pro Ile Pro Asp Asp
225      230      235      240
Pro Thr Gly Glu Asp Ala Tyr Leu Arg Arg Val Gln Met Ala Ala Ala
245      250      255
Ala Gln Pro Thr Leu Gln Ala Pro Thr Arg Pro Pro Pro Arg Pro Leu
260      265      270
Asp Ala Leu Gln Pro Ala Ser Ala Thr Ile Ser Arg Ala Pro Val Arg
275      280      285
Tyr Thr Leu Pro Pro Pro Pro Glu Asp Ile Pro Ala Thr Glu Ala Glu
290      295      300
Leu Glu Glu Val Phe Ala Lys Glu Glu Pro Ala Gly Asp Ala Pro Asp
305      310      315      320
Glu Glu Asp Gly Gln Arg Ser Leu Arg Pro Gly Gln Lys Gly Phe Ala
325      330      335
Glu Arg Leu Leu Ala Lys Tyr Gly Trp Thr Lys Gly Ser Gly Leu Gly
340      345      350
Ala Thr Gly Ser Gly Ile Val Lys Pro Leu Gln Val Lys Val Glu Lys
355      360      365
Gln Lys Lys Arg Pro Asp Ser Glu Gly Gly Gly Phe Val Thr Pro Ala
370      375      380
Gly Arg Gly Lys Ile Ile Gly Gly Lys Arg Lys Ala Glu Glu Glu Glu
385      390      395      400
Gly Lys Phe Gly Arg Met Ser Glu Val Ile Ile Leu Lys Gly Met Leu

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11807

		405					410				415				
Asp	Gly	Met	Asp	Val	Asp	Ala	Glu	Leu	Glu	Gly	Asp	Gln	Asp	Gly	Gly
			420					425				430			
Leu	Ile	Gln	Glu	Ile	Gly	Glu	Glu	Cys	Ser	Glu	Lys	Val	Arg	Phe	Ser
		435					440					445			
Ile	His	Asp	Trp	Val	Ala	Thr	Ile								
	450					455									

<210> 30881
 <211> 110
 <212> PRT
 <213> A.fumigatus

Ser	Lys	Arg	Leu	Val	Arg	Asn	Ala	Gln	Lys	Arg	Cys	Ala	Ser	Leu	Ser
1			5						10					15	
Met	Thr	Gly	Leu	Leu	Pro	Ser	Asn	Thr	Asp	Gln	Tyr	Gly	Arg	Val	Glu
		20						25				30			
Arg	Val	Phe	Ile	Ser	Arg	Glu	Ser	Gly	Pro	Pro	Val	Pro	Val	Phe	Val
		35					40					45			
Lys	Phe	Thr	Asn	Gln	Leu	Ser	Ala	Leu	Arg	Val	Ser	Ile	Ser	Glu	Phe
	50					55					60				
Arg	Ser	His	Pro	Ser	Leu	Asp	Thr	Asp	Lys	Ile	Cys	Gln	Ala	Val	Asn
65					70				75						80
Ala	Leu	Glu	Gly	Arg	Val	Phe	Asn	Gly	Asn	Thr	Ile	Thr	Ala	Arg	Phe
			85					90						95	
Tyr	Asp	Thr	Gln	Lys	Phe	Glu	Glu	Gly	Ile	Tyr	Asp	Asp	Arg		
		100						105					110		

<210> 30882
 <211> 170
 <212> PRT
 <213> A.fumigatus

Ser	Pro	Ser	Ser	Ser	Ala	Ser	Thr	Ser	Ile	Pro	Ser	Ser	Ile	Pro	Leu
1				5					10					15	
Arg	Met	Met	Thr	Ser	Leu	Ile	Arg	Pro	Asn	Leu	Pro	Ser	Ser	Ser	Ser
		20						25				30			
Ala	Phe	Leu	Leu	Pro	Pro	Met	Ile	Leu	Pro	Leu	Pro	Ala	Gly	Val	Thr
		35					40					45			
Lys	Pro	Pro	Pro	Ser	Glu	Ser	Gly	Arg	Phe	Phe	Cys	Phe	Ser	Thr	Leu
	50					55					60				
Thr	Cys	Asn	Gly	Leu	Thr	Ile	Pro	Asp	Pro	Val	Ala	Pro	Lys	Pro	Asp
65					70				75						80
Pro	Leu	Val	His	Pro	Tyr	Phe	Ala	Ser	Asn	Leu	Ser	Ala	Asn	Pro	Phe
			85					90						95	
Cys	Pro	Gly	Arg	Ser	Glu	Arg	Trp	Pro	Ser	Ser	Ser	Ser	Gly	Ala	Ser
		100						105					110		
Pro	Ala	Gly	Ser	Ser	Phe	Ala	Lys	Thr	Ser	Ser	Ser	Ser	Ala	Ser	Val
		115					120					125			
Ala	Gly	Ile	Ser	Ser	Gly	Gly	Gly	Gly	Arg	Val	Tyr	Arg	Thr	Gly	Ala
	130					135					140				
Arg	Glu	Ile	Val	Ala	Glu	Ala	Gly	Cys	Ser	Ala	Ser	Lys	Gly	Arg	Gly
145					150				155						160
Gly	Gly	Arg	Val	Gly	Ala	Cys	Ser	Val	Gly						

170

<400> 30883

Ala 1	Gly	Asn	Ile	Ile 5	Ile	Asn	Leu	Ile	Asp 10	Leu	Leu	Leu	Trp	Leu 15	Leu
Cys	Pro	Asn	Ser	Cys 20	Asn	Glu	Ile	Ala 25	Ser	Gly	Arg	Lys	Gly 30	Arg	Ala
Ala	Pro	Leu	Glu	Val 35	Tyr	Asn	Ile 40	Leu	Leu	Tyr	Leu	Gln 45	Arg	Asp	Leu
Leu	Leu	Leu	Ile	Leu 50	Leu	Pro	Ser 55	Leu	His	Ser	Val	Met 60	Ala	Ala	Gln
Thr 65	Arg	Ser	Leu	Asp 70	Gln	Leu	Val	Lys	Gly	Ser	Pro	Ala	Pro	Gly	Ser 80
Leu	Pro	Glu	Ser	Leu 85	Ser	Arg	Pro	Ser	Gly 90	Gln	Leu	Asn	Thr	Leu	Gln
Pro	Pro	Phe	Ser	Gln 100	Asp	Ala	Ser	Asp 105	Pro	Ser	Ser	Pro	Pro	Arg	Ser
Ser	Thr	Pro	Asp	Leu 115	Leu	Ser	Thr 120	Leu	Pro	Ser	Ser	Pro	Pro	Gln	Ile
Tyr	Leu	Asn	Leu	Leu 130	Ile	Leu	Glu 135	Ser	Ser	Leu	Arg	Ala 140	Gln	Tyr	Leu
Ala 145	Leu	Arg	Glu	Arg 150	Arg	Arg	Gln	Asn	Thr	Phe	Phe	Leu	Leu	Leu	Leu 160
Ala	Ala	Trp	Ile	Ala 165	Tyr	Phe	Ala	Tyr	Ala 170	Leu	Phe	Leu	Arg	Pro	Arg
Glu	Asp	Gly	Ser	Gly 180	Val	Gly	Gly	Ser	Ile 185	Tyr	Trp	Met	Val	Glu	Met
Gly	Glu	Lys	Val	Ala 195	Leu	Leu	Gly 200	Gly	Ile	Val	Thr	Ala 205	Leu	Leu	Val
Trp	Gly	Thr	Gly	Gln 210	Trp	Glu	Arg 215	Gly	Val	Arg	Trp	Pro	Arg	Arg	Trp
Leu 225	Ala	Val	Ala	Asn 230	Arg	Gly	Leu	Arg	Thr	Met	Asn	Thr	Lys	Ile	Val
Ile	Ile	Arg	Gly	Pro 245	Trp	Trp	Gln	Glu	Leu 250	Ser	Tyr	Leu	Ser	Phe	
Leu	Phe	Pro	Phe	Thr 260	Leu	Pro	Phe	Phe	Pro 265	Ala	Pro	Thr	Gly	Asn	Phe
His	Tyr	Ile	Glu	Arg 275	Pro	Ser	Ser	Asp	Lys 280	Arg	Gly	Ser	Arg	Gln	His
Tyr	Gln	Gln	Tyr	Tyr 290	Asn	Asn	Val	Asp	Ser 295	Glu	Ser	Gly	Leu	Val	Glu
Glu 305	Asp	Leu	Ser	Pro 310	Gly	Gly	Asp	Tyr	Ile	Arg	Leu	Leu	Leu	Leu	Pro
Lys	Ser	Phe	Ser	Pro 325	Glu	Phe	Arg	Glu	Asn 330	Trp	Asp	Asp	Tyr	Arg	Thr
Glu	Phe	Trp	Glu	Lys 340	Glu	Asn	Glu	Arg	Ala 345	Gln	Leu	Arg	Gln	Lys	
Leu	Arg	Gln	Lys	Glu 355	Arg	Gln	Leu	Ala	Arg 360	Gln	Glu	Gly	Trp	Phe	
Trp	Trp	Leu	Gly	Leu 370	Gly	Leu	Gly 375	Trp	Lys	Ala	Ser	Gln	Arg	Arg	Arg

11809

Leu Val Ala Ala Thr Leu Lys Ser Ser Asp Gly Asp Lys His Arg His
 385 390 395 400
 His His His His Leu Ser Ser Ile Ser Lys His Ala His Asp Leu Lys
 405 410 415
 Ser Pro Thr Arg Arg Gly Pro Arg Ser Glu Ser His Ser Arg Thr Pro
 420 425 430
 Ser Arg Ser Thr Thr Pro Val Asp Ile Asp Asp Arg Pro Pro Ser Arg
 435 440 445
 Ser Ser Ala Ser Ser Arg Pro Arg Arg Gly Ser Thr Thr Pro Ser Ser
 450 455 460
 Thr Ala Ser Glu Gln Ser Met Gln Leu Arg Lys Lys Lys Gly Thr Lys
 465 470 475 480
 Ser Leu Ser Arg Gly Leu Ser Pro Leu Thr Gln Ala Gln Ile Arg Glu
 485 490 495
 Gly Ile Tyr Asn Thr Ser Ser Leu Ser Ser Asp Asp Ser Phe Leu Gly
 500 505 510
 Glu Ser Arg Glu Thr Thr Gln Ser Arg Glu Ala Ser Pro Ser Val
 515 520 525

<210> 30884
 <211> 135
 <212> PRT
 <213> A.fumigatus

<400> 30884
 Thr Pro Arg Ser Ser Ser Ser Gly Ala Pro Gly Gly Arg Asn Cys Cys
 1 5 10 15
 Pro Thr Phe Pro Phe Ser Ser His Ser Pro Tyr Leu Ser Ser Leu Leu
 20 25 30
 Gln Pro Gly Ile Ser Thr Thr Ser Ser Ala Arg Arg Arg Thr Ser Val
 35 40 45
 Val Val Gly Ser Thr Thr Ser Ser Thr Thr Thr Thr Ser Thr Ala Asn
 50 55 60
 Arg Ala Leu Trp Arg Lys Ile Ser Ala Pro Glu Val Ile Thr Ser Val
 65 70 75 80
 Ser Phe Phe Ser Pro Asn Pro Ser Arg Pro Asn Ser Ala Arg Thr Gly
 85 90 95
 Met Ile Thr Glu Pro Ser Ser Gly Lys Arg Arg Thr Ser Asp Ala Leu
 100 105 110
 Ser Cys Ala Arg Ser Cys Ala Arg Arg Ser Ala Asn Ser Leu Asp Lys
 115 120 125
 Lys Val Ala Gly Ser Gly Gly
 130 135

<210> 30885
 <211> 124
 <212> PRT
 <213> A.fumigatus

<400> 30885
 Tyr Cys Ala Ala Leu Pro Pro Arg Gly Glu Asp Val Ile Asp Thr Asp
 1 5 10 15
 Asp Met Gly Phe Gly Asp Gln Arg Lys Leu Pro Asn Gly Pro Glu Ser
 20 25 30
 Ala Ala Thr Leu Thr Val Pro Ala Gly Gly Ser Pro Asp Arg Ile Gly
 35 40 45

11810

Gly Ser Trp Gln Leu Arg Arg Ile Ser Ser Val Val Val Asn Gly Asn
 50 55 60
 Thr Ser Asn Val Glu Thr Leu Tyr Gln Arg Asp Thr His Lys Ser Ile
 65 70 75 80
 Ile Leu Ser Thr Pro Leu Leu Leu Thr Leu Glu Lys Gly Ser His Asn
 85 90 95
 Thr Ile Thr Val Gly Gly Leu Tyr Asn Gly Phe Asp Tyr Lys Gly Ala
 100 105 110
 Asp Leu Asp Lys Ile Val Val Tyr Pro Pro Glu Pro
 115 120

<210> 30886

<211> 265

<212> PRT

<213> A.fumigatus

<400> 30886

Asn His Ile His Ala Ile Ala Ile Arg Pro Pro His His Pro Arg His
 1 5 10 15
 Tyr Phe His Gln Leu Pro Ala Ser Lys Met Gly Glu Arg Ile Tyr Glu
 20 25 30
 Leu Asp Arg Gln Gly Asp Ile Thr Phe Val Val Tyr Asp Val Pro Asp
 35 40 45
 Ser Leu Pro Gln Thr Leu Asp Gln Leu Gln Pro Phe Leu Leu Asp Gly
 50 55 60
 Ser Thr Pro Val Ile Thr Ser Pro Ala Ala Ala Ala Ala Ala Glu
 65 70 75 80
 Glu Glu Gln Thr Thr Glu Asn Glu Gln Pro Gln Ala Val Leu Lys Ile
 85 90 95
 Arg Ala Ser Ser Lys His Leu Ser Leu Ala Cys Pro Gln Phe Thr Arg
 100 105 110
 Thr Leu His Ser Gly Phe Gln Glu Ser His Ser Leu His Glu Lys Gly
 115 120 125
 His Leu Thr Leu Glu Ile Asp Asn Trp Asp Pro Ala Ala Phe Leu Val
 130 135 140
 Leu Met Leu Ile Leu His Gly Arg Thr Arg Pro Val Pro Arg Arg Leu
 145 150 155 160
 Ser Leu Ser Lys Leu Val Asp Phe Ala Ile Leu Val Asp Tyr Tyr Glu
 165 170 175
 Cys Tyr Glu Ala Val Glu Val Phe Thr Asp Met Trp Ile Thr Ala Leu
 180 185 190
 Lys Lys Pro Ser Pro Ala Met Arg Leu Thr Ser Leu Ala Gln Ala Glu
 195 200 205
 Glu Trp Leu Phe Ile Ser Trp Val Phe Gln His Gln Gln Met Phe Ala
 210 215 220
 Gln Ala Gly Gly Tyr Leu Leu Arg Thr Leu Thr Gly Arg Phe Cys Ser
 225 230 235 240
 Glu Leu Pro Val Pro Arg Arg Val Cys Gly Ile Val Phe Glu Phe Phe
 245 250 255
 Leu Ser Ala Gly Ser Trp Ala Gly Ser
 260 265

<210> 30887

<211> 61

<212> PRT

<213> A.fumigatus

<400> 30887

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Ser Pro Pro Leu Gln Gln Gln Gln Gln Gln Lys Lys Asn Lys Pro
1          5          10          15
Leu Arg Thr Asn Asn Pro Lys Gln Ser Leu Lys Ser Ala Pro Pro Pro
          20          25          30
Ser Thr Ser Ala Leu Arg Ala Pro Asn Ser Pro Ala Pro Cys Thr Ala
          35          40          45
Ala Ser Arg Asn Pro Thr Pro Ser Met Lys Lys Ala Ile
          50          55          60

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<210> 30888

<211> 630

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (606)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30888

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Lys Leu Thr Ser Ala Ser Lys Lys Leu Gln Lys Ile Ala Ala Pro Phe
1          5          10          15
Pro Arg Pro Tyr Thr Ser Gly Lys Ser Pro Val Pro Phe Thr Ala Gly
          20          25          30
Thr Lys Gly Lys Glu Lys Gly Ala His Thr Arg His Asn Ala Asn Asp
          35          40          45
Leu Ile Ser Ile Thr Arg Glu Ser Asp Thr Trp Asp Glu Trp Gly His
          50          55          60
Val Arg Leu Ile Tyr Tyr Pro Ser Ala Pro Ala Glu Pro Ala Lys Leu
          65          70          75          80
Ala Ser Glu Asn Ala Gln Gly Gly Leu Leu Ser Gln Pro Pro Thr Thr
          85          90          95
Pro Thr Pro Leu Arg Arg Ser His Thr His Pro Thr Pro Gln Leu Gly
          100          105          110
Arg Thr Pro Val Val Glu Asp Ser Pro Gly Ser Ile Thr Asn Ser Pro
          115          120          125
Ser Gly Lys Pro Glu Glu Ala Leu Arg Gly Gly Lys Val Leu Asp Ile
          130          135          140
Pro Tyr Ser Arg Val Ser Ala Ser Lys Ala Glu Asp Leu Leu Ala Gly
          145          150          155          160
His Leu Asp Glu Leu Pro Asp Glu Ser Lys Tyr Glu Leu Leu His Arg
          165          170          175
Ile Arg Thr Ala Gln Gly Val Ala Ser Ser Asn Phe Thr Arg Glu Gln
          180          185          190
Ile Leu Ala Ile Arg Ile Leu Ala Ile Thr Asn Leu Ala Tyr Val Tyr
          195          200          205
Pro Glu Ser Leu Phe Gln Gln Arg Ile Leu Gln Tyr Asp Asn Glu Gln
          210          215          220
Pro Lys Arg Leu Gln Leu Ala Tyr Gln Leu Gly Glu Leu Val His Leu
          225          230          235          240
Gly Ala Ser Gly Asp Leu Pro Val Ser Arg Thr Leu Gln Thr Leu Ala
          245          250          255
Leu Asn Ala Leu Asp Ala Leu Ala Lys His Lys Ser Arg Ala Ile Asp
          260          265          270

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11812

Val Cys Ala Ala Leu Ser Val Asn Val Asn His Gly Val Leu Met Phe
 275 280 285
 Leu Thr Arg Lys Ala Val Asn Glu Leu Ala Ser Asp Glu Arg Asp Lys
 290 295 300
 Asp Glu Ala Tyr Gln Asp Glu Trp Arg Asp Ala Leu Leu Ala Leu Leu
 305 310 315 320
 Arg Thr Leu Pro Gly Ser Ser Thr Arg Thr Pro Glu Thr Leu Val Ser
 325 330 335
 Ala Gly Leu Ile Pro Met Phe Val Asp Ile Leu Asn Leu Arg Thr Glu
 340 345 350
 Lys Ala Arg Arg Val Tyr Ser Arg Val Met Glu Phe Leu Asp Thr Phe
 355 360 365
 Val His Ala Val Arg Asp Ala Leu Ala Thr Leu Thr Asn Ala Lys Gly
 370 375 380
 Phe Asp Ala Ile Ser Asp Leu Ile Asp Tyr Glu Thr Lys Thr Ser Phe
 385 390 395 400
 Glu Asn Val Ser Arg Gly Ala Gly Leu Pro Pro Gln His Lys Thr Pro
 405 410 415
 Ser Ile Asp Tyr Gln Ile Pro Tyr Phe Gln Gln Gln Thr Leu Arg Trp
 420 425 430
 Met Phe Arg Phe Val Asn His Ile Met Gln His Asn Gly Gly Gly Phe
 435 440 445
 Asp Arg Val Leu Arg Asn Leu Ile Asp Ser Pro Gln Leu Leu Thr Ser
 450 455 460
 Leu Arg Leu Val Phe Glu Asn Ala Arg Val Phe Gly Ser His Val Trp
 465 470 475 480
 Ser Asn Ala Val Asn Ile Leu Ser Ser Phe Ile His Asn Glu Pro Thr
 485 490 495
 Ser Tyr Ala Val Ile Ala Glu Ala Gly Leu Ser Lys Ser Phe Leu Glu
 500 505 510
 Ala Val Thr Ser Ser Glu Leu Lys Ala Pro Glu Lys Pro Pro Val Val
 515 520 525
 Glu Thr Glu Ser Ala Ala Pro Glu Thr Gln Pro Gly Asp Gln Pro Thr
 530 535 540
 Pro Leu Pro Ser Asp Ala Val Ser Ser Pro Ser Pro His Gly Glu Gln
 545 550 555 560
 Lys Asp Arg Glu Tyr Asn Met Ala Arg Ser Lys Asp Ala Arg Leu Ala
 565 570 575
 Pro Gly Ile Met Pro Ala Ala Glu Ala Leu Ser Cys Ile Pro Ser Ala
 580 585 590
 Phe Gly Ala Ile Cys Leu Asn Ser Ser Gly Leu Glu Leu Xaa Pro Gly
 595 600 605
 Phe Pro Phe Phe Pro Gly Lys Asn Ala Leu Glu Ser Phe Phe Glu Ile
 610 615 620
 Phe Glu Asn Pro Gln His
 625 630

<210> 30889

<211> 780

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (754)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30889

Asp	Lys	Ser	Thr	Ser	Ile	Met	Pro	Lys	Asn	Arg	Pro	Ala	Thr	Ser	Gly
1				5					10					15	
Tyr	Ala	Arg	Leu	Ala	Gln	Glu	Glu	Glu	Asp	Arg	Ser	Asn	Asp	Ala	Tyr
			20					25					30		
Tyr	Tyr	Ser	Glu	Asp	Glu	Asp	Asp	Leu	His	Gly	Pro	Ser	Gly	Thr	Ile
		35				40						45			
Ser	Gln	Ser	Ala	Ser	Arg	Tyr	Ala	Pro	Ile	Ser	Ala	Arg	Ala	Gln	Met
	50					55					60				
Thr	Pro	Ala	Phe	Ser	Ser	Pro	Pro	Gly	His	Arg	Arg	Arg	Ser	Ser	Gly
65					70					75					80
His	Tyr	Pro	Arg	Gly	Arg	Arg	Asn	Ser	Gly	Val	Tyr	Ile	Lys	Ala	Ile
				85					90					95	
Asn	Ala	Arg	Leu	Glu	Arg	Trp	Ala	Glu	Asp	Phe	Ala	Ser	Lys	Phe	Lys
			100					105					110		
Ile	Asn	Arg	Val	Lys	Gly	Lys	Thr	Leu	Glu	Gln	Glu	Lys	Leu	Glu	Ile
		115					120					125			
Tyr	His	Ser	Val	Phe	Gln	Pro	Pro	Asp	Gly	Val	Arg	Pro	Ile	Ser	Ala
	130					135					140				
Glu	Ala	Leu	Glu	Ser	Glu	Glu	Val	Glu	Arg	Ala	Gln	Arg	Gln	Ala	Arg
145					150					155					160
Glu	Glu	Phe	Glu	Ala	Val	Val	Glu	Ser	Val	Arg	Thr	Ala	Ile	Glu	Leu
				165					170					175	
Gly	Val	His	Pro	Arg	Met	Ile	Ser	Gln	Gly	Ser	Ser	Gly	Ser	Tyr	Phe
			180					185					190		
Ala	Arg	Asn	Ser	Glu	Gly	Lys	Ile	Val	Gly	Val	Phe	Lys	Pro	Lys	Asp
		195				200						205			
Glu	Glu	Pro	Tyr	Ala	Ser	Arg	Asn	Pro	Lys	Trp	Thr	Lys	Trp	Leu	His
	210					215					220				
Arg	Asn	Leu	Phe	Pro	Cys	Phe	Phe	Gly	Arg	Ala	Cys	Leu	Ile	Pro	Asn
225					230					235					240
Leu	Ser	Tyr	Val	Ser	Glu	Ala	Ala	Ala	Tyr	Val	Leu	Asp	Ser	Arg	Leu
				245					250					255	
Arg	Thr	Asn	Leu	Val	Pro	Tyr	Thr	Asp	Ile	Val	Tyr	Leu	Ser	Ser	Lys
			260					265					270		
Ser	Phe	Tyr	Tyr	Asp	Phe	Trp	Asp	Arg	Arg	Lys	Ala	Trp	Met	Gly	Lys
		275				280					285				
Lys	Pro	Leu	Pro	Pro	Lys	Ala	Gly	Ser	Phe	Gln	Val	Phe	Leu	Lys	Gly
	290					295					300				
Tyr	Lys	Asp	Ala	Asn	Leu	Phe	Leu	Arg	Asp	His	Pro	Trp	Pro	Glu	Gln
305					310					315					320
Thr	Asn	Thr	Gly	Phe	Arg	Ala	Glu	Asp	Ala	Pro	Lys	Arg	Lys	Lys	Arg
				325					330					335	
Pro	Trp	Asn	Glu	Ala	Cys	Arg	Pro	Ser	Gly	Ile	His	Ser	Asp	Asp	Glu
		340						345					350		
Asp	Glu	Asp	Asp	Glu	Asn	Asn	Tyr	Ala	Ser	Ser	Pro	Ala	Pro	Arg	Asp
		355					360					365			
Glu	Ser	Gly	Glu	Arg	Arg	Phe	Tyr	Trp	Thr	Glu	Gln	Leu	Lys	Gln	Ser
	370					375					380				
Phe	Arg	Glu	Glu	Leu	Glu	Lys	Leu	Val	Ile	Leu	Asp	Tyr	Ile	Met	Arg
385					390					395					400
Asn	Thr	Asp	Arg	Gly	Leu	Asp	Asn	Trp	Met	Ile	Lys	Ile	Asp	Trp	Lys
				405					410					415	
Thr	Glu	Asp	Val	Ser	Ile	Val	Ala	Glu	Pro	Pro	Lys	Ser	Asn	Gly	Arg
			420					425						430	

Gln Gln Asp Asp Asp Asp Asp Glu His Met Pro Pro Ala Arg Pro Val
 435 440 445
 Ser Thr Ser Pro Gly Arg Thr Gly Thr Ala Ser Ala Ser Tyr Pro Tyr
 450 455 460
 Arg Arg His Glu Thr Met Val Ala Val Ser Arg Thr Gly Thr Pro Leu
 465 470 475 480
 Asn Ser Thr Glu Pro Gln Ala Thr Ile Gln Ile Gly Ala Ile Asp Asn
 485 490 495
 Ser Leu Ser Trp Pro Trp Lys His Pro Asp Ala Val Ser Tyr Ile Val
 500 505 510
 Phe Pro Arg Leu Gln Leu Arg Phe Ala Asn Leu Thr Gln Trp Arg Ser
 515 520 525
 Phe Pro Phe Gly Trp Leu Phe Leu Pro Val Ser Leu Ile Gly Gln Pro
 530 535 540
 Phe Ser Gln Lys Thr Arg Asp His Phe Leu Pro Leu Leu Thr Ser Thr
 545 550 555 560
 Ala Trp Trp Ser Gly Thr Gln Met Ala Leu Arg Arg Val Phe Ser Gln
 565 570 575
 Asp Ala Asp Phe Lys Glu Ser Met Phe Ala Arg Gln Ile Ala Val Met
 580 585 590
 Lys Gly Gln Ala Trp Asn Val Val Glu Thr Leu Lys His Pro Asp His
 595 600 605
 Gly Pro Leu Glu Leu Thr Arg Arg Thr Arg Val Cys Val Trp Asp Asp
 610 615 620
 Leu Val Asp Val Pro Val Ala Ile Pro Leu Arg Gly Gln Pro Ser Thr
 625 630 635 640
 Asp Ala Gln Lys Arg Lys Met Arg Arg Tyr Asp Ser Asp Asp Arg His
 645 650 655
 Asp Asp Tyr Asp Pro Asp Asn Glu Glu Met Asp Ile Gly Ala Ala Met
 660 665 670
 Ser Leu Pro Ser Gln Pro Gln His Asp Leu Leu Gly Leu His Ser Pro
 675 680 685
 Pro Ser Glu Leu Pro Asn Pro Asn Arg Phe Glu Leu Ser Arg Gly Arg
 690 695 700
 Glu His Glu Glu Gly Pro Thr Gln Asp Arg Ser Pro Val Thr Leu Gly
 705 710 715 720
 Arg Asp Ser Val Asp Gly Leu Gly Leu Gly Arg Asp Thr Asp Arg Asn
 725 730 735
 Trp Ala Pro Leu Pro Ser Arg Pro Asp His Lys Arg His Arg Lys Gln
 740 745 750
 Ser Xaa Met Ser Ser Ala His Gly His Ala Gln Phe Val Leu Gly Ser
 755 760 765
 Asp His Leu Gln Arg Pro Pro Arg Leu Cys Asn Cys
 770 775 780

<210> 30890

<211> 68

<212> PRT

<213> A.fumigatus

<400> 30890

Lys Asn Gln Lys Leu Asp Ser Arg Gly Ile Glu Pro Arg Thr Ser Arg
 1 5 10 15
 Asn Leu Gly Leu Lys Thr Cys Ile Tyr Lys Cys Lys Ala Ser Ala Thr
 20 25 30
 Thr Thr Glu Leu Gln Ala His Ser Leu Val Lys Phe Thr Ile Asn Ile

11815

35 40 45
 Leu Cys Ser Gly Lys Thr Val Asp Gly Cys Ser Leu Ile Ser Gly Arg
 50 55 60
 Trp Ile Thr Gly
 65

<210> 30891
 <211> 60
 <212> PRT
 <213> A.fumigatus

<400> 30891
 Arg Gln Gln Leu Arg Thr Ser Tyr Leu Arg Asn Ser His His Val Glu
 1 5 10 15
 Gly Lys Ala Lys Val Gly Ile Ser Asp Ala Ala Leu Cys Gly Ser Ala
 20 25 30
 Glu Tyr Gly Glu Arg Cys Leu Phe Val Leu Tyr Ala Gly Val Ile Ile
 35 40 45
 Leu Phe Pro Lys Lys Leu Ser Gln Thr Gln Glu Ser
 50 55 60

<210> 30892
 <211> 135
 <212> PRT
 <213> A.fumigatus

<400> 30892
 Ser Leu Leu His Tyr Ser Ile His Ser Phe Ile His Ser Phe Ile Leu
 1 5 10 15
 Ser His Ser Leu Thr Met Arg Tyr Thr Ser Leu Phe Thr Ala Val Thr
 20 25 30
 Ala Ala Leu Ala Ser Thr Ala Ala Ala Val Gly Val Ser Gly Ala Ala
 35 40 45
 Glu Gly Phe Ala Lys Gly Val Thr Gly Gly Gly Asn Ala Ser Pro Val
 50 55 60
 Tyr Pro Lys Thr Asn Asp Glu Leu Val Ser Tyr Leu Gly Asp Arg Gln
 65 70 75 80
 Asp Arg Val Ile Val Leu Thr Lys Thr Tyr Leu Thr Leu Ser Pro His
 85 90 95
 Arg Met Lys Met Asn Gly Lys Thr Leu Thr Cys Gly His Ser Phe Asp
 100 105 110
 Phe Arg Gly Thr Glu Gly Tyr Thr Ser Gly Thr Gly Cys Ala Thr Trp
 115 120 125
 Gly Ile Asn Ala Arg Met Ser
 130 135

<210> 30893
 <211> 209
 <212> PRT
 <213> A.fumigatus

<400> 30893
 Val Arg Ser Thr Pro Ser His Glu Arg Gly Ser Lys Leu Thr Glu Val
 1 5 10 15
 Asp Gly Gly Ala Val Arg Gly Tyr Ser Met Leu Ile Ile Leu Gln Glu
 20 25 30

Leu Met Tyr Arg Ile Tyr Val Glu Thr Glu Gly Lys Pro Pro Arg Arg
 35 40 45
 Asp Gln Ile Pro Lys Pro Cys Asp His Phe Asp Leu Ile Val Gly Thr
 50 55 60
 Gly Thr Gly Gly Leu Ile Ala Leu Met Leu Gly Arg Leu Arg Leu Asp
 65 70 75 80
 Leu Glu Thr Cys Lys Glu Val Tyr Val Arg Met Thr Arg Arg Val Phe
 85 90 95
 Glu Thr Asp Lys Thr Ile Ala Gly Ile Pro Tyr Arg Ser Thr Leu Phe
 100 105 110
 Lys Ala Ser Lys Leu Glu Glu Ala Ile Arg Glu Cys Val Arg Glu His
 115 120 125
 Thr Val Phe Glu Ala Glu Gly Asn Asp Met Pro Asn Ala Ser Ser Arg
 130 135 140
 Asn Ser Ile Ala Ser Ala Pro Tyr Ser Pro Ala Ala Ile Pro Gln Arg
 145 150 155 160
 Ser Val Ser Arg Gly Ser Phe Ser Thr Ser Gly Ala Ser His Pro Ser
 165 170 175
 Thr Pro Ile Ser Gln Arg His Ser Ala Ile Ile Asn Gly Leu Arg Trp
 180 185 190
 Gly Asn Pro Asp Ala Leu Leu Tyr Asp Asn Arg Glu Asn Arg Thr Lys
 195 200 205
 Thr

<210> 30894
 <211> 157
 <212> PRT
 <213> A.fumigatus

<400> 30894
 Ile Val Leu Thr Gly Phe Ser Ala Val Thr Ala Leu Tyr Lys Gly Thr
 1 5 10 15
 Pro Arg Asn Gly Ser Ala Val Leu Leu Arg Ser Tyr Asp Ser Arg Lys
 20 25 30
 Glu Pro Pro Pro Glu Phe Asn Cys Thr Ile Trp Gln Ala Gly Arg Ala
 35 40 45
 Thr Ser Ala Thr Gly Leu Ala Phe Lys Pro Ile Gln Ile Gly Gln His
 50 55 60
 Val Phe Ile Asp Glu Gly Ala Gly Thr Tyr Asn Pro Ala Pro Gln Val
 65 70 75 80
 Leu Asp Glu Ala Ala Val Asn Glu Trp Ala Trp Ala Gly Asn Arg Gly
 85 90 95
 Val Tyr Gln Arg Gly Tyr Arg Ala Ser Val Arg Arg Ala Pro Thr Val
 100 105 110
 Gly Ser Met Ser Gly Gly Lys Lys Tyr Phe Gly Gly Cys Ser Arg His
 115 120 125
 Ile Cys Pro Gly Pro Asp Glu Arg Leu Ile Pro Gln Glu Ser Glu Gly
 130 135 140
 Gly Phe Ala Pro Lys Gly Lys Lys Asn Phe Pro Asn Phe
 145 150 155

<210> 30895
 <211> 166
 <212> PRT
 <213> A.fumigatus

<400> 30895

```

Leu Ser Ser Val Ile Ile Arg Leu Thr Ser Ser Asn Ser Pro Gln Ala
1           5           10           15
Ala Lys Ser Ala Val Arg Ala Leu Ala Asp Thr Leu Arg Leu Glu Val
20           25           30
Leu Arg His Asn Ser Ala Arg Thr Thr Tyr Thr Ile His Ile Ala Phe
35           40           45
Pro Ala Asp Phe Ile Ser Pro Gly Phe Val Leu Glu Gln Asp Thr Lys
50           55           60
Pro Asp Leu Thr Lys Arg Ile Gln Gly Thr Asn Val Ala Thr Phe Ala
65           70           75           80
Gln Leu Glu Glu Lys Phe Pro Ser Ser Glu Lys Val Ala Gln Gly Ile
85           90           95
Val Ala Arg Val Asp Arg Gly Asp Phe Ile Ile Cys Glu Asp Ser Leu
100          105          110
Ala Ala Ser Leu Leu Phe Thr Asn Met Val Gly Leu Ser Pro Lys Arg
115          120          125
Gly Leu Gly Ile Val Asp Ser Leu Trp Ser Val Val Met Gly Trp Phe
130          135          140
Val Val Pro Val Leu Arg Arg Arg Trp Glu Lys Met Cys Arg Glu Asp
145          150          155          160
Ala Ile Asn Arg Leu Arg
165

```

<210> 30896

<211> 115

<212> PRT

<213> A.fumigatus

<400> 30896

```

His His Pro Thr Pro His Lys Pro Pro Lys Ala Gln Ser Glu Pro Trp
1           5           10           15
Gln Thr Pro Cys Ala Trp Lys Ser Ser Gly Thr Thr Pro Pro Gly Pro
20           25           30
Pro Thr Gln Ser Thr Ser Pro Phe Gln Pro Thr Ser Ser Arg Leu Gly
35           40           45
Ser Ser Ser Asn Lys Thr Pro Asn Arg Thr Ser Arg Ser Gly Ser Arg
50           55           60
Ala Pro Thr Ser Pro Leu Ser Arg Ser Trp Arg Arg Asn Ser Arg Pro
65           70           75           80
Arg Arg Lys Trp Pro Arg Gly Ser Leu Arg Gly Ser Thr Glu Gly Ile
85           90           95
Leu Leu Ser Ala Arg Ile His Trp Leu Arg Val Phe Cys Leu Arg Thr
100          105          110
Trp Leu Gly
115

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<210> 30897

<211> 664

<212> PRT

<213> A.fumigatus

<400> 30897

```

Val Leu Ser His Leu Lys Val Pro Ala Asn Ser Val Leu Arg Pro Pro
1           5           10           15

```

Pro His Ile Ser Pro Ser Lys Lys Pro Gln Phe Leu Ala Thr Gly Gly
 20 25 30
 Ser Ala Leu Lys Asp Leu Gly Met Thr Arg Leu Lys Ala Thr Arg Asp
 35 40 45
 Gly Ile Leu Gln Ala Gly His His Pro Gln Asn Asp His Gly Leu Arg
 50 55 60
 Asp Pro Ser Gln Asn Ser Ser Lys Thr Trp Arg Pro Tyr Gln Gly Arg
 65 70 75 80
 Trp Asp Pro Asn Asn Pro Gly Trp Arg Ser Ala Thr Ala Ile Pro Ser
 85 90 95
 Arg Ser Asp Asn Ala Val Ser Ser Gly Ser Arg Lys Asn Gly Thr Arg
 100 105 110
 Arg Asn Ala Arg Phe Phe Asp Arg Met Ser Lys Gly Glu Pro Ser Pro
 115 120 125
 Tyr Thr Pro His Leu Ser Gly Ser Gln Gln Ala Gln Val Pro His Ile
 130 135 140
 Gln Leu Gln Gln Pro Phe Asn Ala Pro Ser Ala Thr Pro Gln Leu Asp
 145 150 155 160
 Pro Asn Val Asn Ser Phe Pro Val Leu Pro Met Asn Ser Asn Thr Ser
 165 170 175
 Asp Thr Ser Asn Asn Thr Thr Met Gln Leu Pro Phe Leu Pro Leu His
 180 185 190
 Val Pro His Ser Gln Ser Ala Gln Ser Gln Ile Leu Pro Asn Asn Leu
 195 200 205
 Ser Phe Thr Pro Tyr Gly Phe Pro Pro Met Pro Asp Leu Asn Ser Pro
 210 215 220
 Glu Lys Ile Leu Pro Phe Met Pro Ser Val Ala Pro Phe Pro Pro Leu
 225 230 235 240
 Asn Leu Ser Val Phe Ser Pro Ala Leu Ala Pro Pro Val Phe Gly Gly
 245 250 255
 Phe Pro Phe Cys Pro Phe Asp Pro Met Tyr Pro Thr Thr Val Gly Pro
 260 265 270
 Thr Gly Gly Ser Ser Gln Gly Pro Thr Leu Gln Pro Leu Leu Pro Ile
 275 280 285
 Pro Pro Arg Asp Arg Arg Ser Lys Thr Pro Glu Pro Pro Val Pro Thr
 290 295 300
 Lys Glu Tyr Leu Thr Gln Ser Leu Leu Ala Pro Lys Leu Asn Pro Ser
 305 310 315 320
 Arg Gln Pro Leu Leu Val Ile Leu Asp Leu Asn Gly Thr Leu Ile Phe
 325 330 335
 Arg Lys His Arg Arg Leu Pro Pro Ser Phe Ala Lys Arg Thr Gly Leu
 340 345 350
 Asp Gln Phe Leu Asp Thr Leu Leu Lys Asn Tyr Lys Val Met Ile Trp
 355 360 365
 Ser Ser Ser Gln Pro Glu Thr Val Asn Ala Val Cys Glu Lys Leu Phe
 370 375 380
 Pro Gly Glu Lys Arg Lys Ser Leu Val Ala Glu Trp Gly Arg Asp Lys
 385 390 395 400
 Leu Asn Leu Ser Arg Ser Gln Tyr Arg Ser Lys Val Gln Val Tyr Lys
 405 410 415
 Thr Leu Glu Thr Val Trp Ser Asn Gln Glu Ile Gln Ala Ser Tyr Pro
 420 425 430
 Ile Ser His Gln Asn Gly Arg Phe Lys Thr Lys Lys Lys Ala Ala Gln
 435 440 445
 Gly Lys Ser Arg Trp Asp Gln Thr Asn Thr Val Leu Ile Asp Asp Ser
 450 455 460

Lys Leu Lys Ala Leu Ser Glu Pro Tyr Asn Ile Leu Glu Ile Pro Glu
 465 470 475 480
 Phe Thr Asn Ala Pro Gly Ile Asp Glu Ser His Ile Phe Pro Lys Val
 485 490 495
 Leu Glu Cys Leu Asp Ser Leu Ala Gln His Asp Asp Val Ser Lys Leu
 500 505 510
 Leu His Leu Trp Asn Ser Lys Leu Ala Thr Asn Ile Thr Thr Asn Ser
 515 520 525
 Thr Ile Leu Asp Leu Asp Ile Gly Val Ile Gln Ser Pro Gln Arg Gln
 530 535 540
 Asn Gly Ser Ser Leu Ile Thr Pro Ser Thr Pro Gln Glu Ile Ala Gln
 545 550 555 560
 Ala Arg Lys Glu Arg Arg Arg Ala Arg Lys Gln Glu Lys Lys Ala Ala
 565 570 575
 Arg Arg Ala Ala Ala Ile Gly Asn Ala Pro Ala Asn Val Pro Thr
 580 585 590
 Ser Ala Ala Val Ser Ala Ile Thr Ala Glu Gly Ile Asn Asp Gly Val
 595 600 605
 Thr Ala Val Asp Ser Thr Pro Ala Thr Ser Gly Asp Asp Ser Ala Ile
 610 615 620
 Leu Thr Ala Thr Ala Val Pro Gln Ser His Thr Arg His Ser Pro Ser
 625 630 635 640
 Pro Val Ser Ser Val Gln Ser Glu Asn Tyr Leu Leu Asp Arg Leu Glu
 645 650 655
 Glu Ser Leu Asn Val Arg Arg Asp
 660

<210> 30898

<211> 77

<212> PRT

<213> A.fumigatus

<400> 30898

Leu Asp Thr Val Gln Phe Gly Pro Ser Glu Ala Cys His Leu Thr Phe
 1 5 10 15
 Met Ala Thr Phe Lys Ser Thr Ile Tyr Thr Asp Gly Val Arg Gln Ala
 20 25 30
 Tyr Tyr Trp Ile His Lys Met Asn Ile Lys Leu Leu Gly Ser Arg Ser
 35 40 45
 Ala Phe Gly Phe Phe Met Ala Arg Leu Thr Thr Ile Ile Pro His Leu
 50 55 60
 Lys Ile Ser Leu Ala Trp Ile Tyr Asn Ile His Ala Phe
 65 70 75

<210> 30899

<211> 97

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (60)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30899

Val Tyr Asn Arg His His Asn Phe Gln Ser Gly Trp His Gln Ala Ile

```

1           5           10           15
Pro Phe Thr Lys Ile Asn Tyr Asn Asp Arg Phe Lys Thr Asp Thr Arg
      20           25           30
Lys Cys Lys Leu Gln Asn Phe Asp Phe Lys Cys Leu Arg His Ser Thr
      35           40           45
Ser Gly Ile Ile Glu Ser Thr Ile Glu Thr Asn Xaa Glu Trp Trp Tyr
      50           55           60
Lys Gly Arg Thr Lys Glu Ser Ala Thr Asp Asn Asn Phe Arg Arg Lys
65           70           75           80
Ile Arg Asp Gln Arg Pro Ala Ala Tyr Tyr Asp Phe Pro Ala Val Cys
      85           90           95
Val

```

<210> 30900

<211> 260

<212> PRT

<213> A.fumigatus

<400> 30900

```

Arg Tyr Val Val Leu Phe Asp Ile Thr Ser Leu Ala Leu Leu Leu Thr
1           5           10           15
Arg Phe Gly Ala Asp Asp Leu Pro Val Ile Arg Glu Asn Ile Arg Lys
      20           25           30
Gly Phe Leu Glu Thr Gln Ser Lys Val Asn Ser Trp Val Gln Asn Leu
      35           40           45
Lys Lys Arg Leu Asp Gly Glu Asp Val Asp Glu Gly Pro Ser Asn Gln
      50           55           60
Arg Tyr Gly Glu Gly Gln Gly Tyr Ser Arg Pro Arg Arg Ser Gly Asp
65           70           75           80
Met Gly Arg Arg Ser Gly Asp Arg Glu Arg Tyr Asp Ala Asp Pro Gln
      85           90           95
Leu Leu Ser Asp Asp Phe Ser Ala Leu Glu Leu Arg Asp Ser Glu Gly
      100           105           110
Leu Ser Ser Pro Val Lys Arg Ile Leu Pro Ala Thr Ile Ala Asn Leu
      115           120           125
Thr Ala Ala Pro Pro Pro Gln Pro Pro Arg Arg Pro Leu Ala Asn Pro
      130           135           140
Asn Leu Tyr Lys Ser Ala Ser Pro Ser Pro Asp Arg Arg Lys Val Ser
145           150           155           160
Phe Gln Glu Gly Pro Pro Ser Glu Ile Gly Asn Leu Tyr Asp Thr Ser
      165           170           175
Asp Pro Ala Lys Arg Thr Ser Thr Gly Ser Lys Ser Ser Lys Trp Gln
      180           185           190
Pro Leu Ala Thr Val Glu Pro Ser Pro Val Ala Glu Asn Asp Pro Phe
      195           200           205
Ser Leu Gly Asp Ser Glu Asp Glu Arg Asp Thr Lys Gly Arg Glu Gln
      210           215           220
Asn His Ala Asp Glu Ala Asp Arg Ile Lys Arg Ala Thr Ala Glu Ala
225           230           235           240
Met Ala Gly Glu Leu Gly Thr Thr Lys Val Asn Asp Gln Thr Gln Thr
      245           250           255
Ala Gly Lys Ser
      260

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<210> 30901

<211> 477

<212> PRT

<213> A.fumigatus

<400> 30901

```

Ser Thr Gln Asp Trp Thr Ser Arg Ile Ala Trp Leu Lys Ile Ser Leu
1          5          10          15
Pro Cys Val Ile Ile Thr Cys Leu Glu Ser Leu Lys Val Cys His Pro
          20          25          30
Leu Asn Pro Arg Gln Cys Pro Glu Val Asp Val Pro Met Gln Gly Gly
          35          40          45
Cys Gln Ala Lys Ile Lys Ala Met Pro Arg Leu Asp Thr Leu Ile Ser
          50          55          60
His Leu Val Ala Ala Lys Arg Ser Leu Ser Ser Ile Asn His Val Trp
65          70          75          80
Arg Ala Asn Glu Ile Val Thr Ala Ala Arg Ala Ala Leu Glu Glu Cys
          85          90          95
Val Val Val Ser Ala Arg Thr Ala Phe Leu Arg Arg Gly Leu Asn Asn
          100          105          110
Gln Leu Arg Leu Leu Tyr Ser Val Arg Thr Glu Val Glu Glu Ile Ser
          115          120          125
Leu Arg Gly Arg Ser Glu Phe Ala Ala Val Leu Lys Asp Leu Asp Asp
          130          135          140
Ala Asp Thr Arg Leu Arg Arg Thr Leu Glu Leu Leu Arg Glu Thr Ile
          145          150          155          160
Val His Pro Ala Phe Arg Pro Glu Gly Glu Asp Pro Lys Ser Leu His
          165          170          175
Asp Phe Val Asp Glu Arg Gly Val Glu Glu Leu His Ala Ala Leu Lys
          180          185          190
Ser Ser Ile Asp Arg Thr Thr Ala Ala Gln Ala Gln Leu Asp Ser Ser
          195          200          205
Asn His Ala Phe Asp Asp Glu Leu Leu Ser Ile Lys Glu Ala Leu Gly
          210          215          220
Thr Tyr Arg Thr Ala Ala Lys Leu Ala Ser Ser Arg Ser Ser Ser Ser
          225          230          235          240
Ala Ser Ser Ser Ser Thr Ser Asn Ser Ser Leu Pro Ser Ile Ser Thr
          245          250          255
Met Pro Ser Met Leu His Ser Leu Glu Met His Ala Gln Glu Met Ala
          260          265          270
Asn Leu Leu Glu Ser Leu Val Arg His Phe Asp Leu Cys Val Thr Ala
          275          280          285
Val Lys His Thr Glu Gly Gly Gly Ala Ala Ala Lys Ser Ile Thr Gly
          290          295          300
Asp Met Pro Val Gly Val Pro Val Ser Gly Arg Met Gly Ser Asn Ile
          305          310          315          320
Glu Glu Glu Ile Asn Asn Asn Leu Asn Ala Pro Leu Asp Pro Leu Ser
          325          330          335
Asn Ser Glu Tyr Gln Glu Met Val Asn Val Leu Phe Lys Asp Ala Ala
          340          345          350
Glu Ala Glu Asp Val Val Met Glu Ile Gln Asp Arg Ile Gly Glu Met
          355          360          365
Glu Ser Val Leu Glu Asn Val Leu Ala Gln Arg Asp Ala Leu Arg Ser
          370          375          380
Ile Tyr Asn Ala Thr Thr Asp Ile Tyr Gln His Leu Ser Ser Leu Gly
          385          390          395          400
Ser Thr Arg Leu Pro Gly Tyr Ile Ala Gln Ala His Asn Phe Thr Gln

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<210> 30902
<211> 357
<212> PRT
<213> A.fumigatus
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Gly 1	Pro	Ala	Pro	Leu 5	His	Ser	Phe	Asn	Thr 10	Arg	Gln	Gln	Ala	Gln 15	Gln
Ala	Leu	Val	Ser 20	His	Val	Leu	Met	Lys 25	Leu	Val	Gln	Lys	Leu 30	Ser	Gly
Tyr	Pro	Arg	Leu 35	Leu	Leu	Ala	Gly 40	Asn	Pro	Ser	Lys	Ile 45	Asp	Leu	Gly
Arg	Leu 50	Leu	Leu	Gly	Ile	Ile 55	Ser	Ala	Val	Ala	Ser 60	Gly	Val	Pro	Phe
Pro 65	Leu	Ile	Gly	Ile	Leu 70	Phe	Gly	Gln	Leu	Leu 75	Asp	Asp	Phe	Asn	Ala 80
Val	Thr	Cys	Gly 85	Glu	Ser	Glu	Ser	Ser 90	Asp	Ser	Asp	Ser	Ala	Tyr 95	Gln
His	Asp	Ile	Asn 100	Gly	Lys	Ile	Leu	Ile 105	Ile	Val	Tyr	Leu	Ala 110	Ile	Ala
Gln	Phe	Val	Leu 115	Ile	Tyr	Val	His	Leu 120	Ser	Cys	Trp	Ser 125	Leu	Asn	Gly
Ala	Arg	Leu	Ala 130	Gln	Arg	Leu	Arg 135	Glu	Thr	Tyr	Leu 140	Gln	Asn	Val	Leu
Arg 145	Gln	Glu	Pro	Ser	Tyr	Phe	Asp 150	Lys	Leu	Pro	Pro 155	Gly	Glu	Ile	Ala 160
Ser	Arg	Leu	Asn 165	Gly	Asp	Ile	Gln	Ala 170	Ile	Arg	Ser	Gly	Thr	Ser	Glu 175
Lys	Val	Gly	Ile 180	Cys	Leu	Ser	Ser 185	Leu	Ser	Phe	Phe	Ile 190	Thr	Ala	Tyr
Ile	Val	Ala 195	Phe	Ile	Lys	Asp	Ala 200	Lys	Leu	Ala	Gly 205	Met	Leu	Val	Ser
Leu	Ile 210	Pro	Ala	Tyr	Phe	Leu	Met 215	Ser	Phe	Val	Gly 220	Ser	His	Tyr	Ile
Glu 225	Lys	Tyr	Thr	Gly	Arg	Met	Ser 230	Asp	Tyr	Ala 235	Ala	Ser	Ala	Ala	Ser 240
Ile	Ala	Ser	Glu 245	Ala	Leu	Ser	Asn	Thr 250	Val	Val	Val	Gln	Ala	Phe	Gly 255
Ala	Asn	Ala 260	Arg	Leu	Glu	Glu	Lys 265	Phe	Ser	Lys	Ala	Leu	Lys	Ala	Ala 270
Glu	Thr	Glu 275	Gly	Leu	Lys	Lys	Ala 280	Thr	Ala	Val	Gly 285	Ile	Gln	Ser	Gly
Val	Leu 290	Tyr	Phe	Ile	Ala	Tyr	Ser 295	Ala	Asn	Gly 300	Leu	Ala	Phe	Trp	Gln
Gly 305	Ser	Arg	Ser	Ile	Ala	Glu	Ser 310	Val	Ser	Gly 315	Asn	Thr	His	Gly	Ala 320

11823

Thr Val Gly Ala Thr Phe Thr Val Ile Phe Ile Leu Val Glu Gly Glu
 325 330 335
 Phe Asp Ser Ile Leu Gly Ser Glu Arg Leu His Arg Gly Ala Gly Thr
 340 345 350
 Asp His Arg Ser Thr
 355

<210> 30903

<211> 66

<212> PRT

<213> A.fumigatus

<400> 30903

Pro Thr Tyr Arg Leu Ile Ile Leu Pro Phe Tyr Ile Lys Val Ser Ser
 1 5 10 15
 Ser Leu Ile Gly Met Ala Ser Ser Gly Phe Tyr Tyr Pro Leu Ala Ser
 20 25 30
 Phe Ile Lys Tyr Leu Ala Ser Tyr Leu Ser Arg Ser Tyr Tyr Tyr
 35 40 45
 Ser Ser Phe Thr Ser Ser Ile Val Leu Leu Asp Leu Val Ile Lys Tyr
 50 55 60
 Leu Lys
 65

<210> 30904

<211> 82

<212> PRT

<213> A.fumigatus

<400> 30904

Asn Ser Met Val Ser Leu Arg Leu Gly Ile Gly Val Val Val Val Val
 1 5 10 15
 Thr Arg Val Met Ala Leu Ile Ile Cys Ser Cys Leu Val Ile Ile Cys
 20 25 30
 Tyr Asn Thr Ser Asn Phe Thr Leu Asn Ser Leu Ile Tyr Tyr Phe Asn
 35 40 45
 Ile Ile Thr Ser Leu Thr Phe Thr Tyr Ile Ala Tyr Leu Tyr Phe Tyr
 50 55 60
 Leu Ile Phe Ile Thr Ser Ser Leu Tyr Lys Glu Leu Leu Leu Tyr Ile
 65 70 75 80
 Ile Ser

<210> 30905

<211> 94

<212> PRT

<213> A.fumigatus

<400> 30905

Trp Asn Asn Glu Pro Pro Ala Ser Val Cys Phe His Thr Leu Phe Leu
 1 5 10 15
 Ile Arg Ser Ser Ser Met His Leu Met Ser Asn Val Gln Arg Leu Val
 20 25 30
 Leu Phe Val His Gln Val Gly Leu Phe Arg Leu Arg Arg Leu Ser Ala
 35 40 45
 Pro Ala Ala Asn Ser Met Thr Leu Thr Arg Lys Ser Arg Leu Ile Ser

11824

50 55 60
Tyr Pro His Pro Leu Ser Thr Leu Gln Gly Cys Arg Arg Pro Gly Gln
65 70 75 80
His Tyr Gly Val Arg Pro Leu Asn Tyr Pro Lys His Ala Ser
85 90

<210> 30906
<211> 72
<212> PRT
<213> A.fumigatus

<400> 30906
Trp Cys Ser Ile Ile Arg Val Gln Lys Pro Thr Val Asp Asn Ser Leu
1 5 10 15
Pro Pro Gly Ser Arg Asp Gln Thr Ser Gly Glu Ser Pro Leu Ala Thr
20 25 30
Gly Asp Asn Gly Ser Trp Asn Gly Glu Gly Ala Lys Val Ile His Pro
35 40 45
Phe Ala Ser Met Ile Ser Tyr Trp Leu Ser Phe Tyr Val Ile Pro Asp
50 55 60
Thr Leu Cys Ile Arg Ile Pro Ser
65 70

<210> 30907
<211> 88
<212> PRT
<213> A.fumigatus

<400> 30907
Val Ala Thr Ile Ala Arg Ala His Asp Leu Arg Val His Leu Arg Ser
1 5 10 15
Tyr Arg Pro Pro Gly Ile Gly Ile Met Pro Ser Ala Asp Gly Ser Ser
20 25 30
Ser Ala Arg Pro Asn Gly Thr Ser Ser Arg Ser Asp Gln Leu Ala Trp
35 40 45
Tyr Lys Ser Gln Tyr Glu Gln Leu Glu Ala Glu Leu Ala Asp Phe Gln
50 55 60
Ala Ser Ser Arg Glu Leu Glu Ala Glu Leu Glu Lys Asp Ile Phe Thr
65 70 75 80
Thr Gly Leu Glu Ala Ser Ala Leu
85

<210> 30908
<211> 194
<212> PRT
<213> A.fumigatus

<400> 30908
Lys Arg His Ser Pro Thr Phe Thr Arg Ala Arg Leu Val Thr Ile Pro
1 5 10 15
Lys Arg Leu Pro Pro Ala Leu Pro Leu Arg Asn Pro His Arg Asp Pro
20 25 30
Val Pro Met Ser Gln Ser Thr Pro Thr Ser Pro Thr Ser Thr Ser
35 40 45
Ser Ser Leu Asn Gly Arg Arg Ser Val Ala Ser His Pro Asp Asn Ser
50 55 60

11825

Thr Val Asn Gly Phe Ala Gln Leu Pro Leu His Pro Asn Asn Tyr Ser
 65 70 75 80
 Ser Ser Ser Leu Leu Ser Lys Glu Thr Pro Gln Ser His Asn His Val
 85 90 95
 Ser Ala Glu Lys Asp Glu Phe His Ser Val Thr Ser Ala Gln Ala Ser
 100 105 110
 Asp Asp Asp Glu Ala Glu Pro Asp Thr Ala Thr Val Asn Gly Phe His
 115 120 125
 Arg Glu Ser Ser Asn Glu Asp Ile Ile Ser Asp Ser Ala Gln Ser Glu
 130 135 140
 His Ala Ala Leu Pro Ala Ala Glu Ala Val Ala Asn Thr Ala Thr Gln
 145 150 155 160
 Glu Pro Ala Ser Lys Pro Glu Ser Asn Asp Ala Thr Phe Glu Glu Thr
 165 170 175
 Lys Ser Val Ala Glu Ser Gly Ser His Arg Thr Ser Glu Pro Ala Gln
 180 185 190
 Pro Ala

<210> 30909

<211> 589

<212> PRT

<213> A.fumigatus

<400> 30909

Leu Arg Ser Ser Phe Ser Ser Arg Leu Val Pro Leu Gln Ala Ser Thr
 1 5 10 15
 Ser Asp Lys Leu Thr Thr Gly Ser Arg Ala Ala Ala Ile Ala Phe Val
 20 25 30
 Ser Tyr His Ser Ser Asp Thr Leu Arg Ser Arg Gly Ile Ala Val
 35 40 45
 His Pro Ile Pro Ser Gln Ala Asn Pro Phe Ala Leu Ser Leu Ser Thr
 50 55 60
 Cys Gln Met Thr Ser Ile Leu Leu Ala Ala Ser Ile Ala Gly Leu Val
 65 70 75 80
 Ala Leu Tyr Leu Tyr His Val Asn Arg Ala Met Thr Lys Val Pro Glu
 85 90 95
 Glu Ala Arg Leu Leu Ser Pro Arg Arg Trp Thr Ala Glu Glu Ile Lys
 100 105 110
 Glu Ala Tyr Arg Lys Ala Ile Glu Ser Pro Val Asp Val Ser Lys Ser
 115 120 125
 Leu Pro Pro Lys Gln His Arg Arg Tyr Ile Val Val Gly Gly Ser Gly
 130 135 140
 Met Ser Thr Leu Pro Ile Asp Ala Arg Gln Leu Leu Ile Thr Ser Gly
 145 150 155 160
 Leu Val Gly Asn Trp Ile Val Thr His Leu Leu Ala Arg Gly Glu Asp
 165 170 175
 Pro Thr Ala Ile Arg Val Leu Asp Leu Gln Ser Pro Arg Gln Gln Ile
 180 185 190
 Leu Asp Gln Gly Val Gly Phe Val Lys Val Asp Ile Thr Asp Ala Glu
 195 200 205
 Ala Val Gln Ala Ala Phe Thr Gln Pro Trp Pro Gln Gln Asp Thr Ser
 210 215 220
 Leu Pro Leu Thr Val Phe His Asn Ala Ala Val Ile Arg Pro Gly Glu
 225 230 235 240
 Arg His Lys Ala Phe Leu Gln Phe Cys Thr Arg Val Asn Val Asp Gly

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<210> 30910
<211> 185
<212> PRT
<213> A.fumigatus
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Pro	Ile	Leu	Arg	Gln	Leu	Arg	Arg	Val	Gln	Ser	Arg	Gly	Arg	Ala	His
1				5					10					15	
His	Pro	Arg	Cys	Arg	Gln	Pro	Arg	Ile	Gln	Leu	Pro	His	Gly	Leu	Tyr
			20					25					30		
Pro	Thr	Arg	Gln	Trp	His	Leu	Arg	Ser	Trp	Arg	His	His	His	His	Gly
		35					40					45			


```

Asn Val Ser Asp Gln Gly Arg Ser Ser Gln Val Arg Phe Leu Pro Pro
 50          55          60
Ser Gly Lys Arg Leu Ala Tyr Lys Pro Asn Ser Ile Lys Gln Leu Asp
 65          70          75          80
Leu Pro Arg His Pro Lys Leu Arg Gln Arg Arg Lys Arg Leu His Arg
          85          90          95
Ser Pro Pro Leu Arg Thr Ala Ser Pro Arg Ser His Arg Ile Pro Asp
          100          105          110
Gln Thr Pro Gln His Leu Arg Pro Gly Leu His Arg Pro Gly Pro Gln
          115          120          125
Pro Arg His Arg Leu Gln Arg Pro Leu Pro Pro His Asp His Pro Arg
          130          135          140
Lys Asp Pro His Pro Leu Pro Ala Arg Arg Ser Cys Pro Tyr Ala Ala
          145          150          155          160
Ser Phe Val Ser Ser Arg Met Val Cys Pro Pro Pro Ala Ser Leu Leu
          165          170          175
Ala Pro Ser Pro Thr Lys Asp His Gly
          180          185

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<210> 30911

<211> 72

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (20), (21), (23), (24), (31), (32), (33), (35), (36), (37), (38), (65), (66), (71)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30911

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Leu Gln Glu Val Gly Leu Val Pro Trp Ala Gly Gln Thr His Pro Ser
 1          5          10          15
Pro Ser Leu Xaa Xaa Asp Xaa Xaa Arg Arg Ala Pro Gly Trp Xaa Xaa
          20          25          30
Xaa Lys Xaa Xaa Xaa Xaa Leu Pro Asn Val Gly Asp Leu Pro Asp Trp
          35          40          45
Tyr Ser Asp Ala Arg Phe Ala Gln Val Phe Thr Thr Gly Leu Glu Gly
          50          55          60
Xaa Xaa Gly Gly Thr Ile Xaa His
 65          70

```

<210> 30912

<211> 122

<212> PRT

<213> A.fumigatus

<400> 30912

```

Asn Ser Ile Pro Asp Pro Leu Gly Trp Ala Ser Arg Leu Val Asn Leu
 1          5          10          15
Thr Glu Thr Ile Gln Phe Lys Ala Arg Leu Leu Gln Leu Glu Cys Ser
          20          25          30
Ile Met Asp Cys Leu Val Lys Val Ala Pro Val Val Pro Tyr Leu Asn
          35          40          45
Lys Ala Leu Pro Asp Phe Ala Gln Ala Lys Leu Glu Cys Ser Leu Val
          50          55          60
Glu Tyr Ser Thr Val Ser Pro Pro Gln Met Tyr Asn Val Asp Met Ser

```

65		70		75		80
Ile Arg Pro Gly	Arg Phe Gly Ser Arg	Arg Ala Arg Gly Glu Met Ile				
	85	90				
Lys Ser Gln Asp Met Gly Thr Thr Tyr Cys Pro Gly Gln Val Ala Gly						
	100	105				
Ala Pro Gly Ile Ala Asp Gly Ile Gln Arg						
	115	120				

<210> 30913

<211> 350

<212> PRT

<213> A.fumigatus

<400> 30913

His Val Thr Pro Glu Met Leu Glu Ser Val Gln Ile His Leu Glu Ala
1 5 10 15
Asp Lys Val Gly Met Thr Pro Ala Glu Lys Ser Lys Leu Val Asn Ala
20 25 30
Ala Thr Ala Val Tyr Ile Asp Met Ala Val Glu Glu Met Arg Ser Arg
35 40 45
Gly Leu Ala Pro Lys Ala Asp Tyr Arg Val His Trp Trp Lys Val Met
50 55 60
Gln Asp Phe Val Asp Ser Gly Glu Gly Gln Arg Val Leu Gln Glu Thr
65 70 75 80
Ser Leu Thr Asn Gln Glu Leu Glu Arg Val Ile Ala Lys Leu Gly Ile
85 90 95
Glu Gly Glu Val Ile Ala Arg Met Gly Pro Glu Ile Val Asn Ile Leu
100 105 110
Thr Gly Lys Thr His Ala Leu Ala His Ile Met Arg Asp Leu Leu
115 120 125
Phe Arg Val Tyr Leu Ser Asp Glu Gly Arg Arg Ala Asn Arg Tyr Met
130 135 140
Ala Glu Tyr Ala Arg Leu Leu Thr Ser Gln Arg Arg Asp Ile Arg Ile
145 150 155 160
Leu Glu Ile Gly Ala Gly Thr Gly Gly Thr Thr Ser Glu Val Leu Asn
165 170 175
Leu Cys Ser Pro Asn Gly Glu Ser Phe Cys Ala Glu Tyr Met Tyr Thr
180 185 190
Asp Leu Ser Pro Gly Phe Phe Asn Ala Ala Lys Thr Thr Leu Lys Lys
195 200 205
Trp Glu Ser His Leu Ala Phe Gln Val Leu Asn Ile Ala Asp Asp Pro
210 215 220
Ala Gly Gln Gly Phe Lys Glu His Thr Tyr Asp Leu Ile Ile Ala Ala
225 230 235 240
Asn Val Ile His Ala Thr Ala Arg Leu Thr Asn Thr Leu Ser Asn Val
245 250 255
His Lys Leu Leu Lys Pro Gly Gly Val Phe Gly Leu Val Glu Leu Thr
260 265 270
Arg Leu Thr Pro Phe Tyr Asn Leu Thr Phe Gly Ser Leu Ser Gly Trp
275 280 285
Trp Ala Gly Val Asp Glu Gly Arg Thr Glu Ser Pro Leu Gln Ser Pro
290 295 300
Gln Gln Trp Asn Ser Leu Leu Lys Gln Thr Gly Phe Ser Gly Val Asp
305 310 315 320
Leu Ala Ala Tyr Asp Leu Pro Gly Pro Glu Arg His Ser Cys Leu Leu
325 330 335

11829

Leu Ser Thr Ala Leu Ser Asn Ser Val Thr Thr Asn Gly His
 340 345 350

<210> 30914
 <211> 72
 <212> PRT
 <213> A.fumigatus

<400> 30914
 Thr His Leu Ser Met Thr Glu Thr Leu Gln Lys Lys Arg Leu Leu Arg
 1 5 10 15
 Met Thr Val Ala His Tyr Arg Gln Pro Asn Val Ser Glu Glu Glu Phe
 20 25 30
 Tyr Gln Trp Val Thr Glu Gln His Ala Ala Arg Ala Ala Lys Leu His
 35 40 45
 Ala Lys Asn Gly Ile Glu Gly Phe Cys Ile Val Ser Arg Arg Pro Ile
 50 55 60
 Trp Arg Arg Val Met Asn Ala Lys
 65 70

<210> 30915
 <211> 103
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (88)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30915
 Tyr Phe Thr Pro Gln Ser Phe Arg Asp Phe Thr Ser Glu Leu Asn Asn
 1 5 10 15
 Ala Arg Gly Asn Pro Trp Arg Val Arg Asp Phe Asp Ala Gln Val Asp
 20 25 30
 Phe Phe Phe Arg Asp Met Glu Thr Phe Tyr Lys Gly Ala Ala Asp Ala
 35 40 45
 Asp Phe Gln Ala Ile Gln Ala Glu Glu Gly Pro Phe Val Ser Gly Glu
 50 55 60
 Arg Ala Glu Ile Ser Phe Gly Trp Val Glu Thr Tyr Val Arg Glu Gly
 65 70 75 80
 Gln Val Val Asn Val Asp Glu Xaa Gly Lys His Thr Phe Leu Pro Phe
 85 90 95
 Lys Asp Met Ser Gln Ala Pro
 100

<210> 30916
 <211> 77
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (19), (20), (21), (22), (23), (24), (25), (26), (27), (28), (29), (30), (31), (32)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 30916

Ala Ser Lys Phe Thr Leu Ile His Cys Val His Val Lys Thr Cys Leu
 1 5 10 15
 His His Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30
 Thr Leu Leu Asn Trp Gly Lys Pro Pro Gly Val Ser Pro Thr Phe Ile
 35 40 45
 Pro Pro Trp Gln Gln Leu Pro Pro Phe Ser Pro Ser Trp Ala Phe Ile
 50 55 60
 Phe Pro Lys Lys Ala Pro Pro Gln Ile Pro Pro Ser Pro
 65 70 75

<210> 30917

<211> 136

<212> PRT

<213> A.fumigatus

<400> 30917

Asn Leu Pro Gln Leu Thr Thr Tyr Pro Gly Gln Ser Gly Ile Asp Pro
 1 5 10 15
 Val Pro Leu Val Trp Gly Ala Pro Asp Ala Lys Ser Arg Gly Pro Val
 20 25 30
 Ile Val Thr Arg Ser Ala Gly Met Leu Lys Arg Arg Asn Ala Ile Gly
 35 40 45
 Ala His Gly Gly Ser Tyr Ser Ile Tyr Asn Ala Leu Ala Ile Ala Ala
 50 55 60
 Gly Asp Leu Asp Val Asn Phe Arg Pro Asp Phe Arg Asn Ser Glu Pro
 65 70 75 80
 Thr Phe Asn Phe Pro Trp Gln Pro Ser Trp Ala Asp Lys Thr Lys Ile
 85 90 95
 Val Ser Met Asp Ser Val Trp Gly Leu Asp Ile Val Gln Pro Ile Ser
 100 105 110
 Leu Lys Gly Pro Gly Lys Ala Gly Trp Gly Ile Pro Gly Pro Thr Asp
 115 120 125
 Gly Leu Phe Thr Pro Gly Gln Ile
 130 135

<210> 30918

<211> 206

<212> PRT

<213> A.fumigatus

<400> 30918

Phe Leu Leu Thr Val Leu Thr Gly Leu Trp Ala Gly His Val Gly Thr
 1 5 10 15
 Pro Arg Leu Leu Lys Leu Phe Asp Lys Tyr Asn Ile Lys Ala Thr Trp
 20 25 30
 Phe Ile Pro Gly His Ser Leu Glu Thr Phe Pro Glu Glu Cys Ala Gln
 35 40 45
 Val Arg Asp Ala Gly His Glu Ile Gly Leu His Gly Tyr Ser His Glu
 50 55 60
 Asn Pro Ser Asp Met Thr Pro Glu Gln Gln Lys Asp Val Leu Asp Lys
 65 70 75 80
 Thr Tyr Arg Met Leu Thr Asp Phe Cys Gly Arg Pro Pro Arg Gly Ile
 85 90 95
 Val Ala Pro Trp Trp Glu Thr Ser Lys Glu Met Ala Asp Leu Leu Leu

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<210> 30919
<211> 132
<212> PRT
<213> A.fumigatus
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<210> 30920
<211> 162
<212> PRT
<213> A.fumigatus
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<400> 30920															
Val	Ala	Gly	Glu	Pro	Tyr	Ile	Pro	His	Val	Glu	Ala	Leu	Ile	Asn	Arg
1				5					10					15	
Gly	Lys	Ala	Ile	Ser	Val	Tyr	Glu	Tyr	Trp	Gln	Leu	Asn	Lys	Gln	Lys
			20					25					30		
Thr	Thr	Leu	Gln	Lys	Arg	Tyr	Leu	Asp	Lys	Trp	Asn	Thr	Val	Arg	Ser
		35					40					45			
Gln	Ser	Gly	Lys	Gln	Val	Asp	Ile	Leu	Leu	Gly	Pro	Thr	Met	Pro	His
	50					55					60				
Ala	Ala	Val	Pro	His	Arg	Ser	Val	Arg	Trp	Val	Gly	Tyr	Thr	Lys	Ile
65					70					75					80
Trp	Asn	Leu	Leu	Asp	Tyr	Pro	Ala	Leu	Thr	Phe	Pro	Ala	Asp	Gln	Val

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<210> 30921
<211> 290
<212> PRT
<213> A.fumigatus
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[illegible]

<210> 30922

<211> 71

<212> PRT

<213> A.fumigatus

<400> 30922

```

Arg Pro Ala Pro Thr Tyr Leu Ile Phe Leu Leu Glu Thr Ala Val Trp
1          5          10          15
His Leu Leu Tyr Ile Thr Asp Leu Asp Glu Phe Leu Cys Leu Leu Asp
          20          25          30
Tyr Phe Asp Cys Met Ser Gly Glu Cys Thr Gly Asp Cys Arg Gly Lys
          35          40          45
Thr Thr Lys Ala Ser Thr Gly Asn Asp Asn Val Glu Met Ser Leu Phe
          50          55          60
Arg Asn Leu Phe Gly Leu Ser
65          70

```

<210> 30923

<211> 215

<212> PRT

<213> A.fumigatus

<400> 30923

```

Val Gly Ala Gly Leu Gln Ile Thr Pro Asn Ala Ser Arg Leu Phe Glu
1          5          10          15
Tyr Trp Gln Leu Pro Asn Ser Ile Trp Gln Ala Ala Ala Glu Pro Thr
          20          25          30
Ala Leu Thr Val His Arg Tyr Thr Gly Pro Ile Leu Ala Asn Glu Pro
          35          40          45
Val Phe His Lys Asn Ile Arg Ala Lys Tyr Gly Ala Pro Phe Ile Asp
          50          55          60
Leu His Arg Val Asp Leu Gln Gln Ala Leu Phe Thr Arg Ala Lys Glu
          65          70          75          80
Leu Gly Val Thr Phe His Leu Asn Glu Arg Val Asp Ser Ile Asp Phe
          85          90          95
Ala Thr Thr Thr Val Gln Thr Leu Ala Gly Asn Arg Tyr Thr Gly Asp
          100          105          110
Leu Ile Ile Ala Ala Asp Gly Leu Trp Ser Arg Cys Arg Glu Cys Phe
          115          120          125
Leu Gly Lys Lys Asp Ala Pro Leu Pro Thr Gly Asp Leu Ala Tyr Arg
          130          135          140
Ile Val Leu Thr Ala Asp Gln Ile Ser Asp Pro Glu Leu Arg Ala Trp
          145          150          155          160
Val Glu Asn Pro Glu Cys His Phe Trp Ile Gly Pro Gly Ala His Ala
          165          170          175
Val Ala Tyr Ser Leu Arg Asn Gly Arg Met Phe Asn Ile Val Leu Leu
          180          185          190
Val Pro Asp Asn Leu Pro Pro Arg Val Ser Arg Gln Ser Gly Ser Ala
          195          200          205
Leu Arg Asn Ala Glu Ala Leu
          210          215

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<210> 30924

<211> 81

<212> PRT

<213> A.fumigatus

<400> 30924

```

Ser Ala Pro  Pro Ser Leu Pro Ala Val Trp Phe Arg Ser Lys Lys Cys
1              5              10              15
Gly Ser Thr  Leu Lys Ala Gly Ile Gln Cys Leu Leu Pro Ala Phe Leu
              20              25              30
Leu Pro Leu  Leu Pro Leu Pro Ala Pro Leu Lys Leu Asn Ile Asn Ser
              35              40              45
Pro Glu Ser  Val Pro Gly Thr Met Phe His Cys Gly Gly Thr Ile Glu
              50              55              60
Asn Glu Val  Pro Gly Ser Tyr Pro Leu Tyr Asn Gln Leu Ala Leu Pro
65              70              75              80
Gly

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<210> 30925

<211> 76

<212> PRT

<213> A.fumigatus

<400> 30925

```

Gly Ser Val  Ser Pro Pro Ser Ala Thr Ser Lys Gly Phe Arg Ile Phe
1              5              10              15
Thr Thr Asp  Pro Phe Ala Lys Ser Tyr Glu Thr Lys Glu Gly Asn Ile
              20              25              30
Ala Ile Ile  Glu Met Leu Phe Ser Thr Ser Leu Val Ala Leu Ile Leu
              35              40              45
Ser Pro Arg  Arg Leu Gln Ile Thr Asn Thr Lys Val Cys Ser Ser Ser
              50              55              60
Leu Asp Asn  Cys Thr Phe Leu Asn Ser Val Pro Arg
65              70              75

```

<210> 30926

<211> 68

<212> PRT

<213> A.fumigatus

<400> 30926

```

Arg Gln Ser  Thr Ile Cys Glu Leu Thr Phe Pro Thr Thr Val Leu Ala
1              5              10              15
Val Arg Leu  Asn Arg Lys Arg Leu Val Ile Val Leu Glu Asp Gln Ile
              20              25              30
Tyr Leu Tyr  Asp Ile Gln Thr Met Lys Leu Leu Tyr Thr Ile Gln Thr
              35              40              45
Ser Pro Asn  Pro Asn Gly Lys Arg Cys Asn Pro Leu Leu Ala Phe Glu
              50              55              60
Ser Ser Ala  Phe
65

```

<210> 30927

<211> 165

<212> PRT

<213> A.fumigatus

<400> 30927

Cys Gln Thr Ala Ile Cys Ala Leu Ser Pro Ser Ser Asp Asn Cys Tyr
 1 5 10 15
 Leu Ala Tyr Pro Leu Pro Gln Lys Ala Pro Pro Ser Ser Phe Asn Pro
 20 25 30
 Pro Ser His Thr Pro Pro Gly Thr Thr His Val Ser Pro Thr Ser Gly
 35 40 45
 Glu Val Leu Ile Phe Asp Thr Leu Lys Leu Glu Ala Ile Asn Val Ile
 50 55 60
 Glu Ala His Arg Ser Pro Leu Ala Cys Ile Thr Leu Asn Ser Asp Gly
 65 70 75 80
 Thr Leu Leu Ala Thr Ala Ser Asp Lys Gly Thr Ile Ile Arg Val Phe
 85 90 95
 Ser Val Pro Asp Gly His Lys Leu Tyr Gln Phe Arg Arg Gly Ser Met
 100 105 110
 Pro Ser Arg Ile Phe Ser Met Ser Phe Asn Thr Thr Ser Thr Leu Leu
 115 120 125
 Cys Val Ser Ser Ser Thr Glu Thr Ile His Leu Phe Lys Leu Ser His
 130 135 140
 Pro Thr Ser Ser Pro Asp Ile Arg Leu His Gln Gly Ala Glu Gly Thr
 145 150 155 160
 Ala Asn Gly Tyr Pro
 165

<210> 30928

<211> 281

<212> PRT

<213> A.fumigatus

<400> 30928

Leu Phe Tyr Ser Val Pro Gly Arg Gly Leu Pro Asp Leu Tyr Gly Cys
 1 5 10 15
 Gln Val Arg Gln Cys Cys Val Gly Leu Gly Leu Lys Ala Gln Gln Trp
 20 25 30
 Leu Ile Pro Pro Ile Tyr His Ile Ile Ser Ile Lys Leu Thr Gly Tyr
 35 40 45
 Ser Asp Ser Gln Phe Cys Ile Leu Glu Gln Phe Phe Pro Asp Gly Pro
 50 55 60
 Asn His Pro Phe Ala Ser Thr Met Met Lys His Phe Asn Lys Leu Gly
 65 70 75 80
 Ala Pro Leu Tyr Ser Ile His Glu Tyr Arg Ser Leu Ser Glu Gln Glu
 85 90 95
 Gln Arg Phe Arg Asn Ala Gly Trp Ala His Ala Gln Ala Arg Ser Leu
 100 105 110
 Trp Asp Leu Trp Ser Asp Asn Glu Phe Val Gly Ser Ser Leu Arg Ala
 115 120 125
 Trp Leu Asp Thr Val Glu Pro Phe Asp Glu Trp Glu Glu Phe Ala Leu
 130 135 140
 Phe Ala Ser His Tyr Phe Leu Leu Val Ala Phe Thr Lys Pro Gln Thr
 145 150 155 160
 Met Val Gln Glu Leu Gln Lys Thr Pro Ala Leu Thr Thr Glu Pro Asp
 165 170 175
 Ile Ser Ser Gln Tyr Val Leu Leu Ala Gly Asn Asn Pro Arg Gly Gly
 180 185 190
 Gln Arg Arg Phe Gly Ala Leu Ile Pro Asp Ser Glu Asn Ser Met Gly
 195 200 205
 His His Ser Gly Leu Gly Arg Gln Thr Arg Asp Val Ser Thr Asp Leu

11836

210 215 220
 Tyr Ser Thr Cys Lys Gly Met Thr Thr Pro Gln Leu Pro Phe Pro Pro
 225 230 235 240
 Arg Glu Val Ser Ala Arg Met Cys His Thr Val Thr Ser Leu Arg Gly
 245 250 255
 Gly Asp Cys Leu Leu Val Gly Gly Arg Ala Ser Pro Ala Asn Ala Phe
 260 265 270
 Gln Asp Cys Trp Leu Arg Gln Gly Val
 275 280

<210> 30929

<211> 73

<212> PRT

<213> A.fumigatus

<400> 30929

Thr Asn Asn Ser Ser Ile Val Ser Lys Arg Ser Val Glu Leu Leu Tyr
 1 5 10 15
 Tyr Pro Lys Pro His Phe Phe Arg Tyr Phe Val Lys Arg Pro Pro Arg
 20 25 30
 Arg Ser Pro Leu Ile Asn Arg Gly Tyr Trp Leu Arg Met His Ala Met
 35 40 45
 Ala Glu Ser Val Arg Gln Phe Met Lys Gln Pro Ser Asp Lys Pro Lys
 50 55 60
 Phe Val Leu Asn Leu Gly Cys Gly Leu
 65 70

<210> 30930

<211> 149

<212> PRT

<213> A.fumigatus

<400> 30930

Val Val Glu Asn Tyr Arg Cys Ala Gly Arg Thr Glu Gly Arg Cys Ser
 1 5 10 15
 Leu Gln Ser Tyr Ala Lys Leu Gly Cys Arg Ser Asp Pro Leu Pro Phe
 20 25 30
 Ile Leu Leu Ser Thr Asp Lys Ser Leu Cys Ser Thr Thr Arg Phe Val
 35 40 45
 Asp Ile Asp Tyr Glu Lys Leu Met Val Asn Lys Lys Thr Ala Ile Arg
 50 55 60
 Arg Thr Asp Glu Ile Thr Arg Leu Leu Glu Asn Val Glu Phe Leu Ser
 65 70 75 80
 Asp Glu Ser Pro Ile Gln Ile Arg Ser Glu Gln Tyr Leu Ala Ile Gly
 85 90 95
 Cys Asp Leu Lys Asn Leu Lys Lys Leu Asp Asp Val Leu Lys Thr Glu
 100 105 110
 Leu Leu Pro Ser Asp Cys Ser Ile Leu Phe Leu Ala Glu Val Ser Leu
 115 120 125
 Thr Tyr Met Asp Val Lys Ser Ala Asn Ala Val Leu Ala Trp Ala Ser
 130 135 140
 Lys Leu Asn Asn Gly
 145

<210> 30931

<211> 166

<212> PRT

<213> A.fumigatus

<400> 30931

```

Asp Arg Leu Leu Ser Gly Ala Gly Ile Cys Arg Trp Thr Leu Ala Asp
1           5           10           15
Ala His Asp Arg Cys Gly Ser Val Leu Cys Ile Ser Thr Val Gly Phe
          20           25           30
His Ser Gln Thr Val Leu Phe Glu Ala Arg Ala Asp Cys Asn Arg Leu
          35           40           45
Met Asp His Tyr Asp Leu Arg Thr Cys Tyr Gln Pro Asp Leu Ser Gly
          50           55           60
Leu His Leu Arg Val Tyr Gln Phe Gln Asn Leu Leu Ala Arg His Arg
          65           70           75           80
Pro Ser Leu Phe Ala His Leu Glu Ser Leu Asn Val Glu Pro Ile Tyr
          85           90           95
Val Ser Gln Trp Phe Leu Ser Phe Phe Ala Val Ser Cys Pro Leu Pro
          100          105          110
Met Leu Leu Arg Ile Tyr Asp Val Ile Phe Leu Glu Gly Ala Cys Glu
          115          120          125
Thr Leu Met Arg Val Ala Leu Ser Leu Met Gln Arg Asn Glu Lys Lys
          130          135          140
Ile Met Ala Tyr Thr Glu Phe Glu Asp Val Met Gln Phe Leu Leu Ser
          145          150          155          160
Arg Ser Leu Trp Asp Thr
          165

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<210> 30932

<211> 259

<212> PRT

<213> A.fumigatus

<400> 30932

```

Leu Met Phe Asn Arg Tyr Ala Cys His Ala Asp Asp Phe Val Asn Asp
1           5           10           15
Phe Val Ser Leu Thr Ser Leu Val Thr Lys Glu Ser Leu Gln Ala Leu
          20           25           30
Glu Ala Ser Tyr Asn Gln Ser Gln Gly Val Pro Thr Gly Ile Thr Phe
          35           40           45
Pro Gln Met Gln Ala Ala Ala Ser Arg Phe Leu Gly Arg Phe Trp Ala
          50           55           60
Gly Ser Gly Ser Gln Ala Lys Ser Phe Asn Leu Asn Pro Asn Asn Gly
          65           70           75           80
Ser Met Ser Thr Arg Ala Ser Val Arg Arg Ser Ala Ser Lys Gln Ser
          85           90           95
Met Thr Ser Thr Leu Asn Ser Ile Glu Ser Thr Ser Asp Ala Ser Thr
          100          105          110
Ala Pro Thr Glu Leu Ser Ala Glu Pro Pro Lys Pro Arg Ala Lys Ser
          115          120          125
Ala Met Ser His Asn Lys Asp Arg Asp Leu His Ser Gln Ile Glu Asp
          130          135          140
Leu Leu Met Ala Leu Ser Asp Leu Gln Arg Gln His Ala Asp Leu Thr
          145          150          155          160
Arg Glu Leu Gln Gln Glu Arg Glu Glu Arg Glu Glu Asp Gln Gln Leu
          165          170          175
Ala Gln Ser Met Leu Lys Tyr Ile Lys Glu Ile Glu Ala Asp Asp Pro

```

	180		185		190										
Pro	Ala	Glu	Leu	Ile	Arg	Lys	Ala	Glu	Glu	Arg	Phe	Val	Ala	Ser	Gly
	195		200		205										
Ser	Ala	Lys	Arg	Val	Ser	Ile	Pro	Gln	Thr	Lys	Gln	Gln	Leu	Arg	Glu
	210		215		220										
Asp	Leu	Asn	Arg	Trp	Lys	Glu	Met	His	Glu	Ile	Glu	Ala	Gly	Arg	Cys
225			230		235				240						
Leu	Asp	Leu	Thr	Arg	Arg	Ser	Ser	Pro	Gly	Ala	Ala	Ser	Ala	Ala	Pro
			245		250				255						
Phe	Lys	Ile													

<210> 30933

<211> 232

<212> PRT

<213> A.fumigatus

<400> 30933

His	His	Cys	Ala	Asp	Pro	Ser	Ala	Ala	Gly	Gly	Glu	Asp	Glu	Ser	Thr
1		5							10					15	
Ala	Leu	Leu	Leu	Ala	Arg	Leu	Glu	Gln	Glu	Asn	Asn	Ala	Leu	Ala	Thr
	20						25						30		
Asn	Pro	Lys	Ser	Val	Ser	Arg	His	Arg	Leu	Gln	Thr	Arg	Ala	Ser	Arg
	35					40						45			
Ala	Gln	Ser	Leu	His	Gln	Ile	Lys	Arg	Leu	Ile	Asn	Glu	Asp	Pro	Arg
	50				55						60				
Ser	Ser	Leu	Arg	Tyr	Ser	Gln	Leu	Pro	Pro	Pro	Pro	Met	Thr	Glu	Leu
65			70						75					80	
Glu	Phe	Trp	Ala	Ala	Leu	Val	Ala	Asp	Tyr	Pro	Gln	Thr	Ala	Gln	Arg
		85						90						95	
Leu	Pro	Thr	Leu	Thr	Ser	Asn	Lys	Ile	Arg	Gly	Gly	Ile	Pro	Pro	Pro
	100							105					110		
Leu	Arg	Gly	Val	Val	Trp	Pro	Ser	Leu	Ala	Gly	Ala	Arg	Asp	Ser	Ser
	115					120						125			
Leu	Leu	Val	Glu	Tyr	Glu	Arg	Leu	Cys	Gly	Glu	Ser	Ser	Pro	Tyr	Glu
	130				135						140				
Gly	Leu	Ile	Gly	Lys	Asp	Ile	Gly	Arg	Ser	Phe	Pro	Asn	Val	Glu	Met
145				150						155				160	
Phe	Arg	Asp	Pro	His	Gly	Glu	Gly	Gln	Gln	Met	Leu	Ala	Lys	Val	Leu
		165						170						175	
Lys	Cys	Phe	Ser	Leu	Tyr	Asp	Thr	Lys	Ile	Gly	Tyr	Cys	Gln	Gly	Leu
	180							185					190		
Gly	Phe	Val	Val	Gly	Pro	Leu	Leu	Met	His	Met	Thr	Asp	Ala	Glu	Ala
	195					200						205			
Phe	Cys	Val	Leu	Val	Arg	Trp	Val	Ser	Thr	His	Arg	Leu	Phe	Phe	Ser
	210				215						220				
Arg	Pro	Glu	Leu	Ile	Ala	Thr	Gly								
225					230										

<210> 30934

<211> 132

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (125), (130)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30934

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Leu Ser Pro Leu Cys Gln Tyr Ser Ala Asp Asp Gly His Met Thr Pro
1          5          10          15
Trp His Met Ala His Leu Gly Gly Ile Ala Gln Arg Gly Pro Gly Phe
          20          25          30
Leu Met Val Glu Ala Thr Ala Val Glu Pro Glu Gly Arg Ile Thr Pro
          35          40          45
Gln Asp Leu Gly Leu Trp Lys Asp Ser Gln Ile Glu Pro Leu Ser Arg
          50          55          60
Val Ile Glu Phe Val His Ser Gln Asn Gln Leu Ile Gly Val Gln Ile
65          70          75          80
Ala His Ala Gly Arg Lys Ala Ser Thr Val Ala Pro Trp Leu Ser Ala
          85          90          95
Asn Asp Thr Ala Ser Glu Lys Met Gly Gly Trp Pro Gly Arg Val Ser
          100          105          110
Ser Pro Arg Gly Trp Lys Glu Pro Leu Tyr Leu Gln Xaa Gly Arg Ser
          115          120          125
Ile Xaa Glu Ser
          130

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<210> 30935

<211> 66

<212> PRT

<213> A.fumigatus

<400> 30935

```

Arg Tyr Pro Gly Glu Gly Ser Glu Ala Arg Gly Arg Gln Val Arg Asp
1          5          10          15
Cys Arg Pro Pro Pro Tyr Val Tyr Ser Arg Asp Leu Pro Gly Cys Leu
          20          25          30
Ala Met Glu Ser Asn Gly Asp Val Gly Glu Phe Ile Glu Gln Leu Cys
          35          40          45
Phe Pro Ala Ile Ala Cys Asn Ala Met Tyr Glu Asn Val Tyr Leu Leu
          50          55          60
Gly Met
65

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<210> 30936

<211> 185

<212> PRT

<213> A.fumigatus

<400> 30936

```

Asp Leu Gln Thr Tyr Ile Val Pro Asp Thr Met Pro Arg Pro Asn Pro
1          5          10          15
Arg Ile Pro Ala Asn Pro Arg Thr Cys Ser Asp Leu Lys Glu Phe Leu
          20          25          30
Arg Pro Leu His Thr Glu Val Asp Thr Leu Tyr Lys Leu Ser Tyr Arg
          35          40          45
Leu Ser Leu Ser Tyr Gln Lys Leu Ala Ser Thr Ser Leu Asp Glu Phe
          50          55          60
Phe Pro Thr Ala Ile Thr Cys Leu Pro Thr Gly His Glu Thr Gly Arg
65          70          75          80

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Tyr Leu Ala Val Tyr Val Gly Leu Ser Tyr Leu Arg Ile Ala Phe Ile
 85 90 95
 Asp Leu Leu Gly Asp Gln Gln Val Glu Gly His Ser Arg Val Arg Arg
 100 105 110
 Thr Leu Glu Lys Ala Trp Pro Ile Glu Glu His Leu Arg Arg Asp His
 115 120 125
 Ala Pro Asp Leu Phe Thr Trp Ile Gly Asp Cys Ile Ala Glu Val Val
 130 135 140
 Ala Asp Gly Leu Ala Asn Pro Ser Glu Lys Met Pro Cys Glu Leu Ile
 145 150 155 160
 Thr Gly Ile Ser Leu Cys Phe Pro Val Lys Tyr Met Ile Ile Pro Pro
 165 170 175
 Ser Gly Pro Met His His Ile Ser Asn
 180 185

<210> 30937

<211> 437

<212> PRT

<213> A.fumigatus

<400> 30937

Ser Ser Leu Arg Leu Val Gln Cys Thr Ile Tyr Leu Ile Arg Tyr Asp
 1 5 10 15
 Arg Gln Lys Ser Leu Asp Glu Ala Val Leu Met Pro Thr Gly Lys Gly
 20 25 30
 Phe Ala Leu Asn Ser Asp Leu Asn Leu Arg Gln Ala Leu Leu Ser Gly
 35 40 45
 Tyr Glu Arg His Thr Arg Arg Leu Asp Glu His Gln Gly Pro Met Pro
 50 55 60
 Ala Lys Lys Arg Lys Leu Tyr Tyr Leu Pro Ser Leu Arg Ile Ala Val
 65 70 75 80
 Met Thr Asn Asp Thr Val Ala Thr Leu Ala Ser Leu Ala Tyr Phe Ile
 85 90 95
 Pro Ser Leu Pro Asn Thr Arg Val Val Met Gly Leu Ile Val Gly Ala
 100 105 110
 Gly Cys Asn Ala Thr Val Pro Phe Arg Ile Thr Asp Leu His Glu Leu
 115 120 125
 Lys Thr Arg His Ile Arg Ala Arg Glu Pro Asp Ala Leu Glu Thr Leu
 130 135 140
 Val Ser Thr Glu Trp Thr Leu Ser Ser Ala Ala Ala Pro Leu His Glu
 145 150 155 160
 Leu Gly Ile Thr Thr Ser Trp Asp Thr Glu Leu Asp Met His Ser Gln
 165 170 175
 Arg Pro Gly Phe Gln Pro Phe Glu Tyr Met Val Gly Gly Arg Tyr Ile
 180 185 190
 Gly Glu Leu Val Arg Ile Ile Cys Tyr Asp Trp Phe Asn Arg Ser Leu
 195 200 205
 Gly Met Ala Arg Ser Ala Leu Pro Leu Lys Leu Val Lys Glu Tyr Ser
 210 215 220
 Leu Thr Thr Asp Phe Leu Ser Leu Phe Val Ala Ser Asn Tyr Ser Asn
 225 230 235 240
 Glu Arg Leu Ala Ser Asp Leu Ser Lys Arg Leu Pro Pro Pro Pro Thr
 245 250 255
 Ser Ser Trp Arg Trp Thr Pro Asn Leu Ala Gly Asp Val Arg Ala Ile
 260 265 270
 Ala Ser Ala Val Gln Asp Arg Ala Ala Ser Leu Val Ala Ala Val

275 280 285
 Val Gly Leu Leu Ala Cys Thr Arg Glu Ile Gln Leu Arg Ser Pro Asp
 290 295 300
 Ser Leu Ser Ala Lys Ile Asp Gln His Ala His Ile Ala Pro Lys Gly
 305 310 315 320
 Thr Glu Pro Tyr Asp Leu His Ser Arg Phe Ser Ser Lys Ser Gly Trp
 325 330 335
 Arg Asn Gly Pro Glu Glu Leu Ala Val Ala Val Ser Gly Gly Val Ile
 340 345 350
 Gln His Tyr Pro His Tyr Lys Glu Thr Val Gln Arg Tyr Ile Asp Arg
 355 360 365
 Leu Ile Leu Cys Ala Gly Pro Gln Glu Gly Gly Arg Ser Val Phe Leu
 370 375 380
 Arg Glu Val Ser Asp Gly Gly Ile Ile Gly Ile Gly Val Leu Ala Gly
 385 390 395 400
 Thr Ala Ser Gly Glu Ile Gly Glu Ile Ile Gly Ser Ser Leu Gln Lys
 405 410 415
 Glu Asn Thr Ser His Gly Asp Pro Lys Thr Ala Asp Asn Glu Ala Ser
 420 425 430
 Pro Arg Asn Gln Ser
 435

<210> 30938

<211> 78

<212> PRT

<213> A.fumigatus

<400> 30938

Ser Asp Ser Asp Ser Ala Cys Thr His Arg Tyr Leu Met Leu Asp Asp
 1 5 10 15
 Phe Thr Ala Thr Asp Thr Leu Ser Ala Leu Asp Ala Glu Leu His Leu
 20 25 30
 Arg Ala Ser Leu Cys Arg Gln Arg Asp Val Met Lys Phe Ser Ile Leu
 35 40 45
 Asn Glu Asp His Asp Tyr Val Lys Phe Asp Gly Ile Gly Asp Glu Ser
 50 55 60
 Thr Ala Val Tyr Ser Leu Val Tyr Ser Ile Ser Phe Asp Arg
 65 70 75

<210> 30939

<211> 155

<212> PRT

<213> A.fumigatus

<400> 30939

Thr Ile Ala Thr Tyr Gly Tyr Leu Asp Gly Glu Tyr Ile Phe Ser Ala
 1 5 10 15
 Ala Leu Leu Leu Val Met Val Asn Ala Ala Phe Pro His Asn Glu Thr
 20 25 30
 Asn Ala Arg Thr Met Asp Met Ala Leu Asn Leu Leu Arg Ser Met Ala
 35 40 45
 Asp Arg Gly Asn Thr Tyr Leu Gly Ser Arg His Ser Leu Leu Leu Glu
 50 55 60
 Leu Gln Ala Ser Ile Gly Ser Asn Gln Val Ala Gln Gly Arg Val Asp
 65 70 75 80
 Phe Asn Ala Pro Val Thr Pro Ile Ser Thr Gln Gln Arg Ser Pro Pro

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<210> 30940
<211> 152
<212> PRT
<213> A.fumigatus
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<210> 30941
<211> 496
<212> PRT
<213> A.fumigatus
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	100		105		110
Ala Cys His	Pro Leu Val Asp Arg	Lys Ile Ala His	Glu Ser Ser Asp		
	115	120	125		
Met Val Lys	Phe Ala Ala Arg Arg	Val Leu Gly Phe	Val Gly Ser Arg		
	130	135	140		
Met Ala Gln	Leu Gln Met Arg Thr	Phe Leu Gln Asn	Asn Lys Ser Pro		
145	150	155	160		
Thr Lys Arg	Glu Ala Gly Ile Arg	Ala Asp Gln Ser	Ala Leu Glu Ala		
	165	170	175		
Tyr Val Ile	Val Arg His Val Leu	Gln Ser Met Asp	Glu Leu Lys Gly		
	180	185	190		
Cys Phe Gly	Glu Leu Ile Ala Glu	Ala Tyr Leu Ser	Ala Gly Gly Asp		
	195	200	205		
Leu Ser Asn	Ser Ser Asp Ile Asp	Gly Phe Glu Asn	Gly Trp Leu Ser		
	210	215	220		
Leu Phe Ile	Ser Leu Pro Leu	Asn Glu Phe Asp	Ser Cys Gly Leu	Val	
225	230	235	240		
Arg Ile Gly	Ala Arg Phe Gln	Glu Ala His Asp	Asn Trp Leu Met	Val	
	245	250	255		
Lys Arg Leu	Leu Ser Pro Val Leu	Asp Asn Tyr Asp	Thr Asn Ala Glu		
	260	265	270		
Thr Gln Pro	Ile Ser Cys Asn Asn	Tyr Cys Arg Ala	Leu Phe Arg Arg		
	275	280	285		
Cys Tyr His	Leu Ile Asn Gly Trp	Gly Trp Arg Asp	Cys Arg Pro Ile		
	290	295	300		
Met Gln Leu	Leu Tyr Asp Phe Phe	Ala Lys Arg His	Leu Tyr Asp Leu		
305	310	315	320		
Lys Leu Glu	Glu Ser Phe Lys Ser	Pro Ser Phe Leu	Asp Glu Leu Asp		
	325	330	335		
Arg Asn Pro	Ser Phe Asp Val Gln	Pro Gly Asp Pro	Ser Phe His Ile		
	340	345	350		
Phe Leu Lys	Ile Leu Ala Thr Gly	Leu Arg Phe Leu	Pro Phe Cys		
	355	360	365		
Asp Lys Lys	Gln Ile Arg Asn Phe	Ala Trp Arg Leu	Leu Pro Asn His		
	370	375	380		
Asp Gly Arg	Tyr Pro Lys Glu Lys	Pro Ile Ser Gln	Ser Asp Leu Asp		
385	390	395	400		
Ala Val Arg	Asn His His Asp	Leu Leu Cys Thr	Leu Phe Phe Ala	Val	
	405	410	415		
Pro Asp Gly	Cys Arg Pro Arg	Leu Glu Ile Ile	Lys Thr Leu Val	Asp	
	420	425	430		
Pro Ala Ile	Ser His Arg Glu Thr	Cys Asn Ile Ser	Ile Arg Ala Trp		
	435	440	445		
Ser Arg Leu	Val Arg Phe Lys	Leu Ser Thr Asp	Glu Asp Leu Ser	Gly	
	450	455	460		
Leu Glu Pro	Phe Ala Asp Trp	Leu Cys Tyr Phe	Leu Gly Glu Phe	Leu	
465	470	475	480		
Arg Gln His	Ser Ile Ala Arg	Lys Glu Ile Glu	Ala Gln Asn Ile	Ile	
	485	490	495		

<210> 30942

<211> 310

<212> PRT

<213> A.fumigatus

<400> 30942

Thr Thr Leu Cys Pro Phe Arg Arg Gly Pro Trp Arg Val Ile Leu Arg
 1 5 10 15
 Ile Cys Pro Asn Ser Lys Ala Pro Gly Phe Ser Arg Thr Arg Arg Ser
 20 25 30
 Thr Pro Phe Lys Glu Val Ser Val Cys Gly Arg Ile Arg Pro Arg Gln
 35 40 45
 Val Lys Gly Thr Arg Gly Leu Asn His Thr Lys Asp Lys Gly Gly Ala
 50 55 60
 Ser Glu Ala Lys Phe Ile Val Arg Phe Leu Glu Gly Lys Leu Arg Leu
 65 70 75 80
 Gly Leu Ala Glu Lys Thr Val Leu Val Ala Leu Ala Gln Ala Val Val
 85 90 95
 Ala His Glu Ala Ala Val Arg Gly Glu Lys Thr Pro Ser Pro Glu Lys
 100 105 110
 Met Ala Gln Gly Glu Ala Val Leu Lys Thr Val Tyr Ser Glu Leu Pro
 115 120 125
 Ala Tyr Glu Val Ile Ile Pro Ala Met Leu Glu His Gly Leu Phe Asn
 130 135 140
 Leu Pro Lys Val Cys Lys Leu Gln Pro Gly Ile Pro Ile Lys Pro Met
 145 150 155 160
 Leu Ala Lys Pro Thr Lys Ser Ile Thr Glu Val Leu Asn Arg Phe Glu
 165 170 175
 Gly Lys Asn Phe Thr Cys Glu Tyr Lys Tyr Asp Gly Glu Arg Ala Gln
 180 185 190
 Ile His Tyr Val Ala Pro Asp Val Val His His Tyr Pro Gly Ala Lys
 195 200 205
 Thr Thr Leu Gln Lys Asp Ser Lys Gly Leu Ser Ala Ile Phe Ser Arg
 210 215 220
 Asn Ser Glu Asp Leu Ser Lys Lys Tyr Pro Asp Val Leu Ala Lys Leu
 225 230 235 240
 Glu Thr Trp Val Lys Asp Gly Val Lys Ser Phe Val Leu Asp Cys Glu
 245 250 255
 Thr Val Ala Trp Asp Thr Val Asn Lys Lys Val Leu Pro Phe Gln Gln
 260 265 270
 Leu Met Thr Arg Lys Arg Lys Asp Val Lys Ala Glu Asp Val Lys Val
 275 280 285
 Lys Val Cys Ile Phe Ala Phe Asp Leu Leu Phe Leu Asn Gly Glu Val
 290 295 300
 Ser Ser Pro Ile Ala Tyr
 305 310

<210> 30943

<211> 81

<212> PRT

<213> A.fumigatus

<400> 30943

Pro Thr Val Lys Gln Thr Leu Arg Glu Arg Arg Glu Leu Leu His Lys
 1 5 10 15
 Ser Phe Glu Val Val Val Gly Glu Phe Gln Phe Ala Gln His Gly Asp
 20 25 30
 Thr Asn Asp Leu Glu Glu Ile Gln Asn Leu Leu Asp Glu Ser Val Asn
 35 40 45
 Val Ser Cys Glu Gly Leu Met Val Lys Met Leu Asp Thr Glu Glu Ser
 50 55 60
 Gly Tyr Glu Pro Ser Lys Ser Lys Pro Glu Leu Ala Lys Gly Ile Leu

65
His

70

75

80

<210> 30944
 <211> 182
 <212> PRT
 <213> A.fumigatus

<400> 30944
 Gln Val Lys Lys Asp Tyr Leu Ala Gly Val Gly Asp Ser Leu Asp Leu
 1 5 10 15
 Val Val Leu Gly Ala Tyr Tyr Gly Arg Gly Lys Arg Thr Ser Val Tyr
 20 25 30
 Gly Ala Phe Leu Leu Ala Ala Tyr Asn Ser Ser Thr Gln Thr Tyr Glu
 35 40 45
 Thr Ile Cys Asn Ile Gly Thr Gly Phe Ser Glu Ala Leu Leu Glu Glu
 50 55 60
 Leu Tyr Lys Glu Leu Ser Pro Leu Thr Ile Asp Arg Pro Lys Pro Phe
 65 70 75 80
 Tyr Ser His Ser Asn Val Pro Lys Asp Gln Pro Asp Val Trp Phe Glu
 85 90 95
 Pro Arg Leu Val Trp Glu Val Lys Thr Ala Asp Leu Thr Leu Ser Pro
 100 105 110
 Arg Tyr Lys Ala Ala Ala Asp Glu Phe Val Gly Thr Ala Gly Gly Gly
 115 120 125
 Lys Gly Val Ser Leu Arg Phe Pro Arg Phe Ile Lys Ser Arg Asp Asp
 130 135 140
 Lys Lys Pro Glu Gln Ala Thr Thr Thr Arg Ala Val Ala Glu Met Tyr
 145 150 155 160
 Arg Lys Gln Glu Ala Val Leu Lys Glu Asn Thr Ser Lys Gly Gly Val
 165 170 175
 Asp Asp Asp Phe Glu Tyr
 180

<210> 30945
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 30945
 Glu Ser Ile Pro Ile Asp Val Ile Asn Gln Pro Ser Ser Lys Thr Asn
 1 5 10 15
 Tyr Leu Asp Ile His Phe Gly Glu Thr Lys Asp His Arg Asp Arg Gly
 20 25 30
 Asn His Glu Asp Asp Tyr Leu Asp Ser Trp Ser Asn Glu Phe Asn Val
 35 40 45
 Ala Gly Thr Lys Ser Gln Asp Thr His Thr Arg Ala Ser Leu Gly Leu
 50 55 60
 Ser Pro His Gln
 65

<210> 30946
 <211> 60
 <212> PRT
 <213> A.fumigatus

<400> 30946

His Asn Pro Leu Pro Leu Gln Glu Gly Ser Met Glu Gly Tyr Phe Thr
 1 5 10 15
 Asp Leu Pro Lys Phe Gln Gly Pro Gly Val Leu Lys Asn Gln Glu Ile
 20 25 30
 Tyr Ala Ile Gln Gly Gly Phe Cys Leu Arg Pro Asn Pro Ser Thr Pro
 35 40 45
 Gly Lys Gly Tyr Gln Gly Leu Glu Pro Tyr Lys Gly
 50 55 60

<210> 30947

<211> 167

<212> PRT

<213> A.fumigatus

<400> 30947

Asp Ala Gly Phe Pro Ala Pro Gly Gly Arg Arg Arg Gly Pro Leu Ile
 1 5 10 15
 Phe Cys Leu Leu Leu Asn Met Phe Leu Ser Met Arg Ala Lys Asp Asp
 20 25 30
 Gln Ser Ser Leu Val Phe Ser Gly Val Phe Ser Ile Val Trp Ile Gly
 35 40 45
 Glu Ala Val Val Thr Leu Gln Ile Lys Leu Leu Gly Gly Asn Met Tyr
 50 55 60
 Val Ser Pro Phe Asn Val Met Glu Leu Arg Ile Ile Leu Thr Val Thr
 65 70 75 80
 Ser Ser Val Thr Ser Ser Phe Phe Gln Ser Val Cys Ile Ile Gly Tyr
 85 90 95
 Thr Leu Phe Pro Leu Val Ile Ala Ala Met Leu Ser Ala Leu Gly Leu
 100 105 110
 Pro Thr Ile Ala Arg Ile Pro Val Tyr Leu Ala Leu Ile Ala Trp Ser
 115 120 125
 Leu Ala Ala Gly Val Ser Ile Leu Gly Gly Ser Gly Val Ile Lys Asn
 130 135 140
 Arg Val Gly Ile Ala Val Tyr Pro Leu Phe Val Phe Tyr Ile Ala Ile
 145 150 155 160
 Gly Cys Leu Cys Phe Ile Ser
 165

<210> 30948

<211> 60

<212> PRT

<213> A.fumigatus

<400> 30948

Ile Val Arg Ile Pro Gly Arg Pro Tyr Arg Ser Ser Asn Leu Leu Thr
 1 5 10 15
 Asp Lys Thr Lys Ala Ala Asp Arg Asp Val Glu Tyr Glu Gln Arg Ile
 20 25 30
 Asp Arg Asn Ala Tyr Pro Val Leu Asp Tyr Thr Gly Thr Thr Gln Asn
 35 40 45
 Ala His Thr Cys Ser Gln Gly Pro Cys Asn Glu Arg
 50 55 60

<210> 30949

<211> 68
 <212> PRT
 <213> A.fumigatus

<400> 30949

Asp Asn Leu Met Thr Thr Thr Phe Ala Gln Glu Asp Gly Tyr His Asp
 1 5 10 15
 Phe Asp Ala Ser Met Thr Glu Gly Leu Arg Pro Ser Gln Ser Ser Cys
 20 25 30
 Gln Pro Leu Arg Cys Thr Pro Ile Asn Trp Tyr Asp Ile Cys Ser Gln
 35 40 45
 Phe Glu Ser Phe Gln Cys Asn Ser Met Leu Leu Lys Ile Asp Tyr Phe
 50 55 60
 His Thr Pro Leu
 65

<210> 30950

<211> 85
 <212> PRT
 <213> A.fumigatus

<400> 30950

Asp Gly Ile Gln Phe Cys Leu Phe Pro Val Val Ser Ser Ile Ile Ile
 1 5 10 15
 Ile Asn Ser Ile Pro Ile Leu His Asn Gln Leu Ser Ser Val Ile Arg
 20 25 30
 Gln Leu Thr Ser Leu Thr Cys Leu Gly Phe Ile His Lys Pro Ala Leu
 35 40 45
 Ala Ala Asn Leu Pro Ser Tyr Gln Gly Ser Pro Gly Val Pro Asn Ser
 50 55 60
 Ser Ser Gly Val Lys Val Ser Arg Ser Lys Lys Gln Gly Thr Ile Gly
 65 70 75 80
 Thr Tyr Leu Pro Ile
 85

<210> 30951

<211> 193
 <212> PRT
 <213> A.fumigatus

<400> 30951

Phe Thr Val Asp Phe Asp Thr Tyr Thr Trp Val Leu Ser Arg Ile Pro
 1 5 10 15
 Thr Val Phe Arg His Ile Phe Pro Thr Ser Ile Lys Gln Asn Asn Asn
 20 25 30
 His Asn Met Arg Leu Ser Thr Leu Leu Leu Pro Leu Leu Pro Leu Ala
 35 40 45
 Leu Ala Asn Pro Asn Pro Asn Pro Val Ala Ala Pro Asp Pro Gln Ser
 50 55 60
 Thr Gly Gly Gly Leu Leu Ser Glu Leu Pro Thr Ile Leu Asn Gly Val
 65 70 75 80
 Lys Glu Leu Leu Ser Glu Asp Thr Leu Asn Asp Leu Gln Thr Ile Val
 85 90 95
 Lys Gly Gly Ala Val Leu Leu Gly Gly Asp Asn Pro Ala Asn Ile Ala
 100 105 110
 Lys Leu Leu Ser Lys Asp Asn Val Asn Lys Leu Gln Asp Val Ile Asp

11848

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      115              120              125
Asn Ala His Ser Leu Leu Thr Pro Asn Phe Val Asn Glu Thr Ser Thr
      130              135              140
Leu Ile Gly Asp Ala Thr Pro Val Cys Phe Phe Phe Pro Arg Ser Leu
      145              150              155              160
Lys Leu Met Leu Thr Val Ile Ala Gly Phe Gly Cys Gly Glu Val Ala
      165              170              175
Arg Trp Val Val Gly Phe Val Asp Val Ile Gly Met Glu Ser Gly Cys
      180              185              190
Ile

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<210> 30952
 <211> 125
 <212> PRT
 <213> A.fumigatus

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<400> 30952
Gln Arg Pro Phe Thr Met Ser Leu Asp Glu Thr Leu Ala Glu Lys Lys
1              5              10              15
Pro Gln Thr Pro Thr Thr Asn Ser Ile Lys Ser Glu Thr Asn Phe Leu
      20              25              30
Asp Ala Leu Asp Ser Leu Glu Ile Leu Pro Gln Ile Leu Gln Glu Gly
      35              40              45
Ile Leu Phe Ala Gly Ser Gly Thr Ala Leu Leu Leu Gln Ala Ala Thr
      50              55              60
Pro Glu Ile Arg Asn Asp His Asp Lys Ala Asn Asn Gly Pro Asn Val
      65              70              75              80
Ala Thr Glu Leu Gly Asn Ala Leu Gln Ala Met Leu Ser Tyr Val Ser
      85              90              95
Cys Leu Val Phe Ala Thr Arg Gln Glu Lys Lys Thr Leu Leu Asp Met
      100              105              110
Leu Asn Arg Gly Gln Pro Pro Leu Arg Gly Ser Glu His
      115              120              125

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<210> 30953
 <211> 169
 <212> PRT
 <213> A.fumigatus

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<400> 30953
Tyr Ala Ala Ala Pro Asp Val Gln Leu Trp Ile Ala Ala Thr Leu Tyr
1              5              10              15
Ala Thr Ala Thr Asp Phe Tyr Gln Arg Ile Tyr Gly Arg Val Asp Tyr
      20              25              30
Arg Thr Ala Glu Lys Ala Tyr Ala Glu Phe Gly Leu Leu Val His Thr
      35              40              45
Leu Gly Leu Pro Ser Gly Val Trp Pro Glu Thr Arg Gln Lys Ser Trp
      50              55              60
Thr Tyr Trp Asp Asp Arg Ile Glu Arg Leu Thr Val Thr Pro Asp Ala
      65              70              75              80
Asn Met Phe Ala Lys Asp Leu Leu His Asp Lys Ala Val Pro Arg Trp
      85              90              95
Val Gln Met Leu Lys Pro Phe Leu Arg Val Val Thr Ile Glu Met Leu
      100              105              110
Pro Pro Arg Leu Arg Glu Glu Tyr Gly Leu Lys Ser Thr Met Gly Thr

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<210> 30954
<211> 128
<212> PRT
<213> A.fumigatus
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<210> 30955
<211> 234
<212> PRT
<213> A.fumigatus
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<400>	30955														
Ala	Arg	Val	Ser	Pro	His	Leu	Ser	Val	Lys	Arg	Ser	Asn	Asn	Asp	Arg
1				5					10					15	
Ile	Asp	Leu	Asn	Phe	Lys	Pro	Asn	Glu	Tyr	Asn	Leu	Leu	Leu	Ser	Ile
			20					25					30		
Phe	Phe	Ile	Pro	Tyr	Val	Ile	Phe	Ala	Thr	Pro	Gly	Ala	Met	Leu	Gly
		35					40					45			
Lys	Arg	Tyr	Ser	Pro	Ala	Arg	Val	Leu	Pro	Ile	Leu	Met	Phe	Cys	Phe
	50					55					60				
Gly	Ser	Phe	Thr	Met	Leu	Ser	Ala	Ser	Thr	Lys	Asn	Phe	Gly	Gly	Ile
65					70					75					80
Phe	Ala	Leu	Arg	Trp	Phe	Leu	Gly	Met	Cys	Glu	Ala	Pro	Phe	Phe	Pro
				85					90					95	
Leu	Val	Ile	Tyr	Tyr	Leu	Thr	Thr	Phe	Tyr	Arg	Arg	Gly	Glu	Leu	Ala
			100					105					110		
Arg	Arg	Leu	Ala	Ile	Leu	Tyr	Ala	Ala	Ser	Asn	Ile	Ala	Asn	Ala	Phe
		115					120					125			
Ser	Gly	Met	Ile	Ala	Phe	Gly	Val	Phe	Gln	Ile	Glu	Gly	Ser	Ser	Ile
	130					135					140				
Pro	Asn	Trp	Arg	Tyr	Leu	Phe	Ile	Ile	Glu	Gly	Gly	Ala	Thr	Val	Leu

11850

145 150 155 160
 Phe Ser Ile Phe Ala Phe Trp Tyr Leu Pro Arg Ser Val Ala Glu Ala
 165 170 175
 Lys Phe Leu Ser Glu Asp Glu Lys Ala Leu Ala Leu His Arg Ile Gln
 180 185 190
 Val Asp Ser Ser Ala Ile Val Asn Asp Lys Phe His Leu Arg Asp Ala
 195 200 205
 Leu Val Ile Phe Lys His Pro Thr Thr Tyr Val Phe Leu Cys Ile Glu
 210 215 220
 Ile Cys Pro Lys Ser Ser Pro Gly Val Thr
 225 230

<210> 30956

<211> 199

<212> PRT

<213> A.fumigatus

<400> 30956

Leu Arg Val Ala Cys Pro Arg Gly Glu Asn Gly Arg Pro Arg Ala Gln
 1 5 10 15
 Arg Phe Leu Val Lys Gly Glu Ser Asp Gly Ser Ser Asp Leu Met Pro
 20 25 30
 Gly Glu Lys Glu Tyr Glu Ile Ala Cys Ala Asp Gln Asn Phe Leu Ser
 35 40 45
 Leu Asn His Leu His Thr Leu Ser Thr Glu Asp Ala Met Thr Glu Leu
 50 55 60
 Val Lys Tyr Pro Gly Ile Gly Pro Lys Thr Ala Ala Cys Val Ile Leu
 65 70 75 80
 Phe Cys Leu Gln Arg Pro Cys Phe Ala Val Asp Thr His Ile Phe Arg
 85 90 95
 Ile Cys Lys Trp Leu Gly Trp Val Pro Pro Gly Lys Ala Thr Glu Val
 100 105 110
 Thr Ala Phe Ser His Leu Glu Val Arg Ile Pro Asp His Leu Lys Tyr
 115 120 125
 Ser Leu His Gln Leu Leu Ile Arg His Gly Lys Thr Cys Pro Arg Cys
 130 135 140
 Arg Ala Ile Thr Gly Gln Ser Ser Ala Gly Trp Glu Asp Gly Cys Val
 145 150 155 160
 Ile Asp His Leu Val Thr Arg Thr Gly Lys Lys Lys Glu Gly Asn Thr
 165 170 175
 Asn Val Pro Val Ala Ser Lys Arg Arg Thr Gly Arg Lys Ile Arg Ala
 180 185 190
 Glu Thr Asp Gly Ser Asp Glu
 195

<210> 30957

<211> 298

<212> PRT

<213> A.fumigatus

<400> 30957

Glu Glu Gly Ser Ser Asp Ile Ala Gln Val Arg Ser Pro Ala Leu Asn
 1 5 10 15
 Thr Gly Ser Ser Glu Glu Val Glu Ala Asn Asn Arg Phe Glu Ile Arg
 20 25 30
 Arg Tyr Val Leu Asp His Gln Asp Glu Ile Leu Ala Ala Cys Cys Leu

										35					40					45												
Asp	Ser	Gly	Lys	Thr	Lys	Val	Asp	Ala	Ser	Phe	Gly	Glu	Ile	Leu	Val																	
50						55						60																				
Thr	Ala	Glu	Lys	Leu	Lys	Trp	Thr	Ile	Asp	His	Gly	Glu	Lys	Ala	Leu																	
65						70						75						80														
Thr	Gly	Glu	Ser	Arg	Pro	Thr	Asn	Phe	Val	Met	Met	Tyr	Lys	Lys	Asn																	
										85						90						95										
Val	Val	Thr	Tyr	Glu	Pro	Leu	Gly	Val	Val	Ser	Ala	Cys	Val	Ser	Trp																	
										100						105						110										
Asn	Tyr	Pro	Phe	His	Asn	Phe	Ile	Ser	Pro	Val	Ile	Ser	Ala	Ile	Phe																	
										115						120						125										
Ala	Gly	Asn	Gly	Ile	Val	Val	Lys	Pro	Ser	Glu	Gln	Thr	Ala	Trp	Cys																	
130						135						140																				
Thr	Met	Phe	Phe	Leu	Glu	Ile	Ile	Arg	Gly	Ala	Leu	Ser	Ser	Cys	Gly																	
145						150						155						160														
His	Ser	Arg	Asp	Leu	Val	Gln	Ser	Val	Val	Cys	Leu	Pro	Asp	Val	Ala																	
										165						170						175										
Gly	Ala	Leu	Thr	Ser	His	Pro	Asp	Ile	Ser	Gln	Leu	Thr	Phe	Ile	Gly																	
										180						185						190										
Ser	Arg	Pro	Val	Ala	His	Lys	Val	Cys	Glu	Ser	Ala	Ala	Lys	Ala	Leu																	
										195						200						205										
Thr	Pro	Val	Thr	Val	Glu	Leu	Gly	Gly	Lys	Asp	Pro	Ala	Val	Ile	Leu																	
										210						215						220										
Asp	Asp	Pro	Arg	Thr	Val	Ser	Glu	Val	Ser	Ser	Ile	Ala	Ser	Val	Leu																	
225						230						235						240														
Met	Arg	Gly	Val	Phe	Gln	Ser	Ala	Gly	Gln	Asn	Cys	Ile	Gly	Val	Glu																	
										245						250						255										
Arg	Val	Ile	Ala	Leu	Pro	Gly	Ile	Tyr	Asp	Lys	Leu	Leu	Asp	Thr	Val																	
										260						265						270										
Ala	Pro	Arg	Ile	Gln	Ala	Leu	Arg	Leu	Gly	Ser	Val	Leu	Leu	Asp	Ser																	
										275						280						285										
Arg	Pro	Lys	Asp	Ala	Arg	Gln	Lys	Pro	Asn																							
										290						295																

<210> 30958

<211> 134

<212> PRT

<213> A.fumigatus

<400> 30958

Lys	Asp	Gly	Ala	Thr	Leu	Leu	Ala	Phe	Leu	Tyr	Arg	Val	Pro	Ser	Arg																	
1					5					10					15																	
Tyr	Glu	Pro	His	Ile	Leu	Arg	Glu	Arg	Leu	Trp	Glu	Ser	Ile	Glu	Leu																	
										20						25						30										
Gln	Leu	Ile	Ala	Lys	Met	Asp	Ser	Leu	Ala	Ser	Leu	Val	Pro	Pro	Ala																	
										35						40						45										
Leu	Ala	Pro	Leu	Ile	Asp	Thr	Leu	Ala	Thr	Asn	Ala	Gln	Leu	Leu	Gly																	
										50						55						60										
Val	Ala	Val	Ile	Ser	Val	Ala	Ala	Ile	Tyr	Leu	Gly	Tyr	Ala	Phe	Val																	
65						70						75						80														
Leu	Asn	Ser	Lys	Glu	Ala	Ala	Val	Thr	Phe	Asn	Ile	Pro	Leu	Pro	Ala																	
										85						90						95										
Glu	Val	Arg	Ala	Asn	Trp	Thr	Gly	Lys	Lys	Trp	Glu	Asp	Val	Gln	Gly																	
										100						105						110										
Glu	Glu	Lys	Lys	Val	Leu	Glu	Gly	Gln	Val	Arg	Gly	Val	Gly	Leu	Phe																	
										115						120						125										

Pro Leu Arg Ile Asp Asp
130

<210> 30959

<211> 170

<212> PRT

<213> A.fumigatus

<400> 30959

Gln	Ser	Gly	Ala	Ser	Gly	Phe	Thr	Ser	Ile	Pro	Ser	Tyr	Leu	Leu	Pro
1				5					10					15	
Asn	Ser	His	His	Ala	Asp	His	Thr	Met	Arg	Phe	Thr	Thr	Ile	Val	Thr
		20						25					30		
Pro	Leu	Leu	Ala	Ser	Ala	Thr	Leu	Ala	Ser	Ala	Phe	Cys	His	Asn	Ser
	35						40					45			
Ile	Ser	Cys	Met	Met	Gly	Gly	Asp	Ser	Thr	Cys	Asn	Asn	Val	Cys	Val
	50					55					60				
Arg	Gln	Gly	Asn	Pro	Asn	Gly	Gly	Arg	Cys	Leu	Pro	Arg	Asp	Gly	Cys
65					70					75					80
Pro	Gly	Tyr	Asp	Ile	Cys	Ala	Cys	Tyr	Pro	Asn	Asn	Lys	Arg	Ser	Asp
				85					90						95
Glu	Val	Ile	Asp	Ala	Asp	Glu	Pro	Leu	Arg	Glu	Ala	Leu	Lys	Asn	Met
			100					105					110		
Gly	Ile	Glu	Glu	Asp	Thr	Val	Glu	Lys	Leu	Glu	Ala	Arg	Asp	Ala	Ser
		115					120					125			
Leu	Asp	Lys	Arg	Ser	Ile	Cys	Cys	Ser	Phe	Pro	Asp	Pro	Trp	Gly	Gly
	130					135					140				
Leu	Cys	Cys	Glu	Asp	His	Cys	Ser	Tyr	Ile	Gly	Lys	Pro	Gly	Gly	Gln
145					150					155					160
Cys	Ser	Asp	Lys	Gly	Val	Cys	Thr	Cys	Asn						
				165					170						

<210> 30960

<211> 188

<212> PRT

<213> A.fumigatus

<400> 30960

Leu	Asn	Leu	Ala	Ser	Val	Lys	Ala	Arg	Asn	Leu	Lys	Pro	Ile	Glu	Pro
1				5					10					15	
Ser	Leu	Asp	Gly	Thr	Ser	Ile	Leu	Pro	Leu	Gln	Arg	Ile	His	Thr	Pro
		20						25					30		
Cys	Asn	Cys	Leu	Val	Ala	Gly	Ala	Asn	Thr	Leu	Val	Gly	Ala	Leu	Ser
	35					40						45			
Thr	Arg	Leu	Ser	Asn	Val	Ala	Ala	Val	Ile	Leu	Thr	Ala	Glu	Ser	Ser
	50				55						60				
Pro	Gly	Val	Gly	Glu	Ala	Ala	Ala	Asp	Ala	Ala	Leu	Ile	Gln	Gly	Gly
65					70					75					80
Ile	Ser	Ser	Phe	Gln	Leu	Leu	His	Gly	Ile	Leu	Leu	Asp	Ala	His	Val
			85					90						95	
Leu	Gln	Gly	Phe	Thr	Gln	Gly	Leu	Val	Gly	Ile	Asn	His	Leu	Val	Ala
			100					105					110		
Ala	Leu	Val	Val	Arg	Val	Ala	Gly	Ala	Asp	Val	Val	Ala	Gly	Ala	Ala
		115					120					125			
Val	Ala	Gly	Glu	Ala	Ala	Ala	Ala	Val	Gly	Val	Thr	Leu	Ala	His	Ala
	130						135					140			

11853

Asp Val Val Ala Gly Gly Val Ala Ala His His Ala Gly Asp Gly Val
 145 150 155 160
 Val Ala Glu Gly Gly Gly Glu Gly Gly Ala Arg Gln Glu Gly Ser Asp
 165 170 175
 Asp Gly Gly Glu Thr His Cys Val Val Cys Val Val
 180 185

<210> 30961

<211> 224

<212> PRT

<213> A.fumigatus

<400> 30961

Leu Ala Phe Glu Ala Cys Ala Asp Leu Ala Asn Glu Ile Leu Glu Lys
 1 5 10 15
 Arg Asn Ile Pro Asp Arg Phe Thr Gly Ala Gln Leu Ile Gln Asp Phe
 20 25 30
 Val Gly Gln Asn Phe Arg Gly Met Met Ile Ser Leu Gln Ala Lys Tyr
 35 40 45
 Lys Phe Glu Met Ser Lys Glu Glu Leu Glu Glu Tyr Val Ile Lys Glu
 50 55 60
 Glu Asp Glu Val Ile Gly Lys Leu Asn Glu Lys Ala Gln Pro Cys Ala
 65 70 75 80
 Gly Ala Asn Glu Gln Leu Lys Glu Ile Phe Glu Ser Lys Lys Tyr Asp
 85 90 95
 Leu Ala Val Val Ser Ser Ser Ala Leu Arg Arg Val Lys Ala Ser Ile
 100 105 110
 Lys Lys Val Gly Gln Asp Lys Tyr Phe Asp Asp Asn Leu Ile Phe Ser
 115 120 125
 Ala Ala Ser Ser Leu Pro Lys Pro Thr Ser Lys Pro Asp Pro Ala Ile
 130 135 140
 Tyr Leu His Ala Leu Glu Val Cys Lys Lys Lys Pro Glu Glu Val Val
 145 150 155 160
 Ala Ile Glu Asp Ser Lys Ser Gly Ala Leu Ser Ala Ile Arg Ala Gly
 165 170 175
 Ile Pro Val Ile Gly Tyr Val Gly Ser Tyr Pro Gly Asp Glu Lys Lys
 180 185 190
 Leu Glu Met Ser Gln Arg Leu Glu Glu Leu Gly Ala Lys Val Ile Met
 195 200 205
 Lys Asp Trp Ser Glu Phe Lys Asn Cys Leu Glu Glu Ile Glu Lys Leu
 210 215 220

<210> 30962

<211> 67

<212> PRT

<213> A.fumigatus

<400> 30962

His Gln Gly Arg Gly Pro Ala His Thr Ser Phe Tyr Ser Leu Asn Cys
 1 5 10 15
 Asp Leu Lys Ser Ile Tyr Gln Phe Pro Ser Gly Asn Ile Ala Gln Ser
 20 25 30
 Ile Lys Val Gln Val Thr Ser Leu Ala Asp Leu Gln Ala Leu Leu Gly
 35 40 45
 Ser Phe Leu Leu Ser Lys Leu Phe Lys Arg Pro Ile Gly Arg Ser Val
 50 55 60

Leu His Ala
65

<210> 30963
<211> 93
<212> PRT
<213> A.fumigatus

<400> 30963
Thr Thr Ala Arg Leu Leu Gly Leu Asn Arg Val Pro Gly Met Ile Phe
1 5 10 15
Asp Phe Leu Ser Leu Ser Asn Ala Glu Thr Arg Val Ser Met His Val
20 25 30
Met Thr Leu Leu Pro Ser Lys His Gln Thr Leu Lys Pro Ser Thr Ala
35 40 45
Pro Val Thr Lys Cys Ile Thr Gln Cys Asp Leu Thr Thr Asp Ser Thr
50 55 60
Gly Cys Leu Tyr Phe His Tyr Leu Ile Lys Gln Asn His Ser Ala Val
65 70 75 80
Leu Tyr Phe Phe Phe Phe Phe Phe Ser Ile Thr Gly Thr
85 90

<210> 30964
<211> 70
<212> PRT
<213> A.fumigatus

<400> 30964
Phe Arg Ser Thr Cys Ile Leu Thr Ser Thr His Pro Tyr Leu Ala Thr
1 5 10 15
Arg Asp Phe Gly Cys Phe Tyr Asn Pro Arg Glu Asn Gln Ser Val Phe
20 25 30
Tyr Phe Ile Leu Cys Ile His Ser Thr Leu Leu Ser Gln Lys Asp Tyr
35 40 45
Thr Glu His Leu Ala Arg Gln Val Ile Gln Gly Thr Tyr Lys Lys Gln
50 55 60
Asn Ser Phe Lys Ser Thr
65 70

<210> 30965
<211> 378
<212> PRT
<213> A.fumigatus

<400> 30965
Arg Thr Pro Leu Val Arg Ala Val Leu Phe Thr Asn Asn Tyr Glu Lys
1 5 10 15
Arg Thr Phe Pro Ala Leu Leu Asp Leu Leu Asp Thr Val Ser Phe
20 25 30
Arg Asp Trp Phe Gly Ala Thr Ile Phe His His Ile Ser Glu Thr Thr
35 40 45
Arg Ser Lys Gly Lys Trp Lys Ser Ser Arg Tyr Tyr Cys Glu Val Leu
50 55 60
Leu Asp Lys Leu His Asn Thr Cys Ser Gln Asp Glu Ile Asp Leu Leu
65 70 75 80
Leu Ser Cys Gln Asp Ser Asn Gly Asp Thr Ala Ala Leu Val Ala Ala

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<210> 30966
<211> 127
<212> PRT
<213> A.fumigatus
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<400> 30966
Pro Ala Ala Lys Val Phe Tyr Ser Ile Gly Phe Ala Gly Ile Ile Phe
1          5          10          15
Ser Val Asp Val Ile Thr Ala Asp Thr Ser Thr Leu Arg Asp Arg Gly
          20          25          30
Leu Ala Tyr Ala Phe Thr Ser Ser Pro Tyr Ile Ile Thr Ala Phe Gly
          35          40          45
Gly Pro Ala Ala Ala Glu His Phe Tyr Asp Ser Asn Trp Arg Trp Ala
          50          55          60
Tyr Gly Cys Phe Ser Ile Val Leu Pro Val Val Ala Leu Pro Met Phe
65          70          75          80
Cys Leu Leu Arg Trp Asn Arg His Lys Ala Lys Lys Ser Gly Leu Leu
          85          90          95

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11856

Lys Asp Lys Ala Asp Ser Gly Arg Thr Trp Met Glu Ser Ile Arg His
 100 105 110
 Tyr Ile Ile Glu Phe Asp Ser Lys Tyr Leu Gly Thr Phe Gly Asp
 115 120 125

<210> 30967
 <211> 315
 <212> PRT
 <213> A.fumigatus

<400> 30967
 Ser Val Leu Met Val Val Val Leu Gly Val Phe Phe Leu Ala Ala Gly
 1 5 10 15
 Leu Val Leu Phe Leu Leu Pro Phe Ser Ile Ala Gly Ser Thr Glu Asp
 20 25 30
 Asp Trp Lys Ser Ala Ser Ile Ile Thr Met Leu Val Ile Gly Phe Val
 35 40 45
 Cys Leu Leu Val Phe Ala Leu Val Glu Arg Phe Val Ala Pro Val Pro
 50 55 60
 Phe Leu Pro Trp Ala Leu Leu Ala Ser Arg Thr Val Leu Gly Ala Cys
 65 70 75 80
 Met Leu Asp Val Cys Tyr Gln Ile Ala Tyr Tyr Cys Trp Phe Asn Tyr
 85 90 95
 Tyr Thr Ser Tyr Leu Gln Val Val Tyr Gly Thr Ser Ile Thr Thr Ala
 100 105 110
 Gly Tyr Ile Thr Ser Ile Phe Asp Val Val Ser Gly Val Trp Leu Phe
 115 120 125
 Ile Val Gly Phe Leu Ile Lys Lys Thr Asn Arg Phe Arg Trp Leu Leu
 130 135 140
 Phe Ile Ala Val Pro Leu Tyr Ile Leu Gly Val Gly Leu Met Ile Tyr
 145 150 155 160
 Phe Arg Lys Pro Ser Trp Ser Val Gly Tyr Met Ile Met Cys Gln Ile
 165 170 175
 Phe Ile Ala Phe Ala Gly Gly Thr Met Ile Ile Cys Gln Gln Val Ala
 180 185 190
 Val Leu Ala Ala Ser Asp His Asp His Ala Ala Ser Ser Leu Ala Phe
 195 200 205
 Leu Asn Val Phe Gly Thr Met Gly Ser Ala Val Gly Ser Ser Ile Ser
 210 215 220
 Gly Ala Ile Trp Thr His Thr Leu Pro Gly Ala Leu Gln Arg Leu Leu
 225 230 235 240
 Pro Asp Ser Val Lys Ala Asp Trp Gln Thr Ile Tyr Asp Ser Leu Glu
 245 250 255
 Glu Gln Leu Ser Tyr Glu Arg Gly Thr Leu Ile Arg Gln Ala Ile Ala
 260 265 270
 Leu Ala Tyr Ala Ser Thr Gln Ser Lys Met Leu Ile Ala Gly Thr Ala
 275 280 285
 Ile Met Ala Leu Ser Leu Val Trp Met Phe Val Ile Arg Asp Ile Lys
 290 295 300
 Leu Thr Lys Thr Gln Thr Lys Gly Val Leu Phe
 305 310 315

<210> 30968
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 30968

Val Pro His Thr Lys Glu Pro Leu Leu Glu Asn Gln Val Tyr Ser Asn
 1 5 10 15
 Gln Ser Asp Trp Leu Asp Glu Met Asn Gln Met Leu Ile Gln Asn Ser
 20 25 30
 Ser Glu Leu Arg Thr Ile Arg Glu Leu Ala Val Ile Val Ser His Gln
 35 40 45
 Ser Tyr Gln Thr Phe Arg Arg Pro Arg Val Leu Leu Cys Ser
 50 55 60

<210> 30969

<211> 73

<212> PRT

<213> A.fumigatus

<400> 30969

Ser Val Leu Ser Leu Arg Phe His Val Arg Glu Met Arg Ala Ser Tyr
 1 5 10 15
 Gly Ser Trp Pro Thr Thr Pro Met Asn Thr Cys Lys Tyr Asn Ile Cys
 20 25 30
 Arg Ser Gly Met Asp Phe Glu Thr Asp Leu Lys Cys Arg Phe Phe Lys
 35 40 45
 Cys Tyr Pro Gln Leu Thr Ala Phe Ser Ser Ser Ala Tyr Ile Val Leu
 50 55 60
 Thr Ser Ser Thr Phe Leu Val Leu His
 65 70

<210> 30970

<211> 421

<212> PRT

<213> A.fumigatus

<400> 30970

Ile Ala Thr Tyr Thr Ser Arg His Ala His Gln Pro Gly Arg Arg Thr
 1 5 10 15
 Pro Leu Leu Ala Lys Lys Gln Glu Thr His Ile Ser Val Gln Leu Tyr
 20 25 30
 Thr Tyr Pro Ile Lys Ser Leu Arg Gly Val Ser Leu Ser Glu Ala Thr
 35 40 45
 Leu Thr Arg Thr Gly Phe Gln Tyr Asp Arg Arg Phe Met Leu Leu Lys
 50 55 60
 Val Ile Pro Asp Gln Asn Gly Ala Tyr Thr Leu Lys Asn Met His Val
 65 70 75 80
 Pro His Phe Pro Glu Met Ala Leu Phe Thr Thr Asp Ile Ile Tyr Pro
 85 90 95
 Asp Glu Glu Lys Gly Ile Pro Gly Arg Ile Ile Val Met Tyr His Pro
 100 105 110
 Pro Ala Asp Asp Arg Val Asp Asp Gln Asp Lys Ala Thr Lys Thr Leu
 115 120 125
 Thr Ile Pro Leu Gln Pro Asp Ile Arg Gly Leu Arg Gln Leu Ser Ile
 130 135 140
 Glu Met His Gln Ser Pro Thr Thr Gly Tyr Asp Met Gly Asp Pro Tyr
 145 150 155 160
 Asn Ala Trp Phe Ser Glu Arg Phe Gly Tyr Gly Val Val Leu Ala Tyr
 165 170 175

Leu Gly Pro His Ser Arg Arg Val Leu Gly Ser Phe Ala Pro Gly Lys
 180 185 190
 Ser Pro Ala His Ala Val Asp Lys Pro Val Val Ser Thr Arg Ser Leu
 195 200 205
 Val Gly Leu Ala Val Leu Thr Leu Val Leu Asn Gly Val Arg Val Ser
 210 215 220
 Ala Ser Ala Ser Gly Ala Val Gln Leu Thr Ser Asp Glu Leu Arg Lys
 225 230 235 240
 His Trp Pro Gly Val Ala Ala Thr Val Val Ala Gly Leu Leu Ser Trp
 245 250 255
 Ile Leu Leu Arg Gly Leu Ser Ala Gly Gln Asp Asp Glu Ser Ile Thr
 260 265 270
 Phe Ala Asp Thr Ala Pro Tyr Leu Leu Thr Ser Glu Thr Ser Val Asp
 275 280 285
 Glu Leu Ser Ala Arg Phe Glu Gly Gly Glu Arg Met Asp Val Thr Lys
 290 295 300
 Phe Arg Pro Asn Ile Val Ser Gly Ala Ala Thr Pro Phe Glu Glu
 305 310 315 320
 Asp Phe Trp Ala Glu Leu Arg Val Arg Gln Gly Gly Arg Ala Ala Arg
 325 330 335
 Leu Leu Leu Thr Ala Asn Cys Val Arg Cys Gln Ser Ile Asn Val Asp
 340 345 350
 Tyr Ala Thr Gly Lys Met Gly Lys Gly Glu Thr Gly Ser Ala Leu Lys
 355 360 365
 Lys Leu Met Lys Asp Arg Arg Val Asp Lys Gly Ala Lys Tyr Ser Pro
 370 375 380
 Val Phe Gly Arg Tyr Val Phe Leu Asp Pro Gly Ser Asp Lys Ala Met
 385 390 395 400
 Ile Gln Val Gly Asp Glu Val Asp Val Leu Arg Thr Met Asp Glu Arg
 405 410 415
 Thr Val Tyr Gly Gln
 420

<210> 30971

<211> 164

<212> PRT

<213> A.fumigatus

<400> 30971

Arg Gly Ser Phe Arg Ala Pro Trp Val Lys Thr Gly Pro Ile Asn Asn
 1 5 10 15
 Gly Gly Leu Gly Tyr Asn Ile Val Ser Gly Gly Thr Asp Asn His Leu
 20 25 30
 Val Leu Val Asp Leu Lys Asn Arg Gly Val Asp Gly Ala Arg Val Glu
 35 40 45
 Arg Val Leu Glu Leu Cys Gly Val Ala Ser Asn Lys Asn Thr Val Pro
 50 55 60
 Gly Asp Gln Ser Ala Leu Lys Pro Gly Gly Leu Arg Leu Gly Thr Pro
 65 70 75 80
 Ala Met Thr Thr Arg Gly Phe Gln Pro Glu Asp Phe Arg Arg Val Ala
 85 90 95
 Asp Ile Val Asp Arg Ala Val Ile Ile Thr Gln Lys Leu Asp Lys Ala
 100 105 110
 Ala Lys Glu Ser Ala Ala Ala Lys Gly Val Lys Asn Pro Asn Thr Val
 115 120 125
 Lys Ala Phe Phe Asp Tyr Val Gly Glu Gly Asp Glu Ile Ser Glu Ile

11859

130		135		140
Val Leu Leu Arg Lys Glu	Val Glu Asp Trp	Val Gly Thr Phe Ser Leu		
145	150	155		160
Pro Trp Asp Asp				

<210> 30972
 <211> 137
 <212> PRT
 <213> A.fumigatus

<400> 30972

Thr Trp His Thr Glu Lys Leu Trp Pro Glu Leu Val Ser Leu Gln Lys	
1	5 10 15
Leu Leu Leu Ile Cys Ser His Ala Asp Leu Ile Asp Thr Thr Ala Ser	
	20 25 30
Asp Glu Thr Lys Thr Asp Ser Lys Ala Ser Lys Thr Asp Ser Ala Ser	
	35 40 45
Asp Thr Asn Thr Ala Asp Ser Thr Ala Thr Asp Ser Ser Ser Gly Lys	
	50 55 60
Lys Thr Ser Thr Gly Thr Ala Lys Glu Thr Gly Thr Gln Thr Glu Ser	
65	70 75 80
Gly Thr Ser Thr Glu Thr Ala Thr Asp Lys Ser Gly Lys Asn Ser Lys	
	85 90 95
Thr Lys Thr Ser Thr Lys Ser Thr Ser Ile Asp Pro Arg Leu Pro Ala	
	100 105 110
Gly Gly Thr Ser Met Leu Ile Pro Thr Ala Gly Ala Thr Thr Tyr Tyr	
	115 120 125
Lys Ile Gly Asp Tyr Val Thr Phe Ala	
	130 135

<210> 30973
 <211> 105
 <212> PRT
 <213> A.fumigatus

<400> 30973

Asn Tyr Thr Ser Leu Leu Val Thr Pro Ser Ala Val Asn Val Leu Ala	
1	5 10 15
Thr Cys Thr Met Asn Ser Ala Thr Tyr Thr Leu Thr Ser Asn Met Ser	
	20 25 30
Val Glu Glu Thr Gly Lys Val Val Trp Asp Thr Gly Lys Tyr Gln Ala	
	35 40 45
Asn Ala Thr Val Pro Leu Leu Thr Ala Thr Tyr Thr Leu Tyr Val Val	
	50 55 60
Asp Val Asp Lys Asp Ile Gly Asp Thr Ala Ser Pro Gly His Leu Gly	
65	70 75 80
Ser Gln Asn Gly Tyr Leu Phe Gly Met Tyr Ser Pro Gln Pro Tyr Thr	
	85 90 95
Pro Leu Asn Gly Met Leu Leu Phe Leu	
	100 105

<210> 30974
 <211> 118
 <212> PRT
 <213> A.fumigatus

<400> 30974

Ala Ile Phe Leu Gly Asn Pro Arg Ser Glu Leu Leu Gly Val Lys Glu
 1 5 10 15
 Arg Pro His Gly Arg Ser Glu Ser Val Leu Ala Arg Leu Leu Arg Ile
 20 25 30
 Gly Ala Gly Leu Ala Gly Met Cys Ala Phe Pro Ile Tyr Phe Val Phe
 35 40 45
 Gln Tyr Thr Asp Tyr Ala Ser Gly Phe Ile Pro Met Ile Gly Tyr His
 50 55 60
 His Val Leu Met Ile Ile Ile Ala Val Ala Ile Ile Leu Leu Cys Glu
 65 70 75 80
 Phe Ser Val Cys His Met Cys Gly Met Ser Leu Thr Cys Pro Ser Leu
 85 90 95
 Thr Thr Gly Arg Met Phe Ile Ile Ile Thr Thr Asn Thr Gly Tyr Leu
 100 105 110
 Ser Asp Ile Phe Ile Leu
 115

<210> 30975

<211> 113

<212> PRT

<213> A.fumigatus

<400> 30975

Leu Val Leu Ala Leu Leu Leu Ala Gly Cys Ser Ser Ser Ser Pro Gln
 1 5 10 15
 Ile Pro Asp Ile Phe Leu Ile Ser Leu Tyr Tyr Glu Arg Tyr Asn Pro
 20 25 30
 Val Phe Asp Lys Ala Gln Val Asp Pro Gly Val Val Thr Ala Thr Ala
 35 40 45
 Asn Ile Val Gly Gly Ala Glu Met Glu Val Arg Val Gly Tyr Phe Gly
 50 55 60
 Ile Cys Val Gln Pro Ala Gly Gly Ala Tyr Ile Cys Asn Ser Asn Ala
 65 70 75 80
 Thr Ala Leu Ala Glu Ile Val Thr Val Asp Gln Asp Pro Leu Asn Leu
 85 90 95
 Ile Trp Val Ala Ser Thr Phe Lys Asp Ala Val Val Phe Pro Tyr Leu
 100 105 110
 Leu

<210> 30976

<211> 460

<212> PRT

<213> A.fumigatus

<400> 30976

Arg Ile Phe Leu Phe Lys Leu Ala Lys Pro Asp Asn Arg Lys Gln Leu
 1 5 10 15
 Val Val Asp Ser Gly Phe Arg Cys His Val Thr Gln Tyr Ser Arg Ala
 20 25 30
 Thr Ala Thr Ala Pro Ser Pro Phe Val Thr Arg Met Arg Lys Phe Leu
 35 40 45
 Lys Ser Arg Arg Leu Thr Ser Ile Glu Gln Ile Gly Thr Asp Arg Val
 50 55 60

Ile	Asp	Phe	Ser	Phe	Ser	Asp	Gly	Met	Tyr	His	Met	Phe	Leu	Glu	Phe	65	70	75	80
Phe	Ala	Gly	Gly	Asn	Ile	Ile	Ile	Thr	Asp	Arg	Glu	Tyr	Asn	Ile	Leu	85	90	95	
Thr	Leu	Phe	Arg	Gln	Val	Pro	Ala	Gly	Val	Gly	Glu	Glu	Glu	Met	Arg	100	105	110	
Val	Gly	Leu	Lys	Tyr	Thr	Val	Thr	Asn	Lys	Gln	Asn	Tyr	His	Gly	Val	115	120	125	
Pro	Glu	Ile	Thr	Phe	Glu	Arg	Ile	Lys	Glu	Thr	Leu	Glu	Lys	Ala	Lys	130	135	140	
Glu	Ala	Ser	Ala	Gln	Glu	Gly	Thr	Ala	Pro	Lys	Lys	Ser	Lys	Lys	Lys	145	150	155	160
Asn	Val	Asp	Val	Leu	Arg	Lys	Ala	Leu	Ser	Gln	Gly	Phe	Pro	Glu	Tyr	165	170	175	
Pro	Pro	Leu	Leu	Leu	Asp	His	Ala	Phe	Ala	Val	Lys	Glu	Val	Asp	Pro	180	185	190	
Ala	Thr	Pro	Leu	Glu	Asn	Val	Leu	Gly	Asp	Asp	Thr	Leu	Met	Glu	Gln	195	200	205	
Val	Asn	Gly	Val	Leu	Lys	Glu	Ala	Gln	Ser	Val	Thr	Ile	Lys	Leu	Ser	210	215	220	
Ala	Lys	Glu	Asp	His	Pro	Gly	Tyr	Ile	Val	Ala	Lys	Glu	Asp	Lys	Arg	225	230	235	240
Pro	Ser	Ala	Glu	Ser	Thr	Ala	Asp	Ala	Gly	Asp	Pro	Ser	Glu	Lys	Ala	245	250	255	
Gly	Leu	Phe	Tyr	Glu	Asp	Phe	His	Pro	Phe	Arg	Pro	Arg	Gln	Phe	Glu	260	265	270	
Gly	Asn	Pro	Glu	Val	Lys	Ile	Leu	Glu	Phe	Ser	Thr	Phe	Asn	Ala	Thr	275	280	285	
Val	Asp	Glu	Tyr	Phe	Ser	Ser	Leu	Glu	Thr	Gln	Lys	Leu	Glu	Ala	Arg	290	295	300	
Leu	Thr	Glu	Arg	Glu	Glu	Ala	Ala	Lys	Arg	Lys	Leu	Asp	Ala	Val	Arg	305	310	315	320
Gln	Glu	His	Glu	Lys	Arg	Leu	Gly	Ala	Leu	Lys	Glu	Ala	Gln	Glu	Ile	325	330	335	
His	Val	Arg	Lys	Ala	Ala	Ala	Ile	Glu	Asp	Asn	Val	Tyr	Arg	Val	Gln	340	345	350	
Glu	Ala	Met	Asp	Ala	Val	Asn	Gly	Leu	Ile	Ala	Gln	Gly	Met	Asp	Trp	355	360	365	
Val	Glu	Ile	Ala	Arg	Leu	Ile	Glu	Met	Glu	Gln	Gly	Arg	Gly	Asn	Pro	370	375	380	
Val	Ala	Arg	Ile	Ile	Lys	Leu	Pro	Leu	Lys	Leu	Tyr	Glu	Asn	Thr	Ile	385	390	395	400
Thr	Leu	Val	Leu	Gly	Glu	Ala	Ser	Glu	Glu	Gln	Asp	Ala	Ala	Asp	Asp	405	410	415	
Leu	Phe	Trp	Asp	Glu	Ser	Glu	Glu	Glu	Ser	Glu	Ser	Glu	Glu	Gln	Glu	420	425	430	
Ala	Ala	Arg	Lys	Ala	Ser	Glu	Met	Leu	Thr	Ile	Asp	Ile	Asp	Leu	Gly	435	440	445	
Leu	Ser	Pro	Trp	Ala	Asn	Ala	Thr	Gln	Tyr	Tyr	Glu					450	455	460	

<210> 30977

<211> 83

<212> PRT

<213> A.fumigatus

<400> 30977

Ile Arg Ile Phe Ser Ser Glu Glu Ile Ser Ile Asp Arg Ser Ser Thr
 1 5 10 15
 Val Phe Val Leu Ile Asp Leu Thr Tyr Arg Gly Lys Val Val Tyr Val
 20 25 30
 Arg Asn Ser Lys Val Asp Gln Leu Arg Gly Glu Phe Leu Ala Asn Asp
 35 40 45
 Leu Ser Ser Cys Glu Ile Leu Arg Ile Gln His Gly Gly Leu Ser Cys
 50 55 60
 Glu Gly Arg Thr Leu Thr Ser Arg Asp Glu Asn Arg Cys Phe Ile Phe
 65 70 75 80
 Leu Gly Asn

<210> 30978

<211> 313

<212> PRT

<213> A.fumigatus

<400> 30978

Arg Tyr Leu Ser Thr Pro Lys Leu Pro Pro Pro Lys Asn Thr Asp Phe
 1 5 10 15
 Val Pro Ser Ser Ile Leu Val Glu Pro Thr Thr Thr Thr Gln Leu Ser
 20 25 30
 Thr Ala Glu Thr Ala Thr Gly Thr Asn Arg Pro Ala Gln Leu Pro Gly
 35 40 45
 Ser Ile Ser Pro Ala Asn Gly Leu Thr Ser Pro Pro Pro Asp Ser Thr
 50 55 60
 Leu Ile Gln Leu Gly Phe Asn Gly Lys Leu Arg Tyr Ser Phe Val Ala
 65 70 75 80
 Thr Thr Pro Leu Ser Ser Ser Gln Ile Phe Leu Tyr Ile Pro Gln Gly
 85 90 95
 Leu Ile Tyr Ala Leu Glu Ile Leu Gly Lys Asp Ile Ala Met Phe Ala
 100 105 110
 Ile Gln Pro Tyr Asp Asn Ser Ala Ser Thr Gly Tyr Ile Ala Thr Val
 115 120 125
 Ala Leu Ala Tyr Ile Pro Thr Asp Lys Val Asp Thr Leu Arg Lys Leu
 130 135 140
 Leu Arg Ser Pro Leu Ser Lys Leu Tyr Gln Gln Pro Asn Glu Ser Val
 145 150 155 160
 Lys Thr Leu Phe Ser Met Ile Asp Pro Ser Ile Pro Leu Val Val Gly
 165 170 175
 Glu Ser Gly Ser Ser Ser Gly Ser Gly Leu Tyr Ser Asp Ser Gly Ile
 180 185 190
 Ser Gly Ser Gly Ser Ser Ser Asp Gly Asn Gly Ser Gly Ser Asn Ser
 195 200 205
 Gly Asn Asp Ala Asp Ala Gly Ala Ser Arg Ser Ala Ser Ala Arg Ala
 210 215 220
 Ser Ser Val Gly Ile Gly Val Gly Val Val Cys Gly Ala Ala Ala Tyr
 225 230 235 240
 Gly Ala Gly Met Phe Trp Val Ala Arg Arg Tyr Arg Lys Lys Arg Gln
 245 250 255
 Leu His Arg Arg Ser Asn Ser Thr Met Glu Gln Thr Ser Glu Gly Arg
 260 265 270
 Gly Ala Gly Ser Leu Phe Ala Ala Gly Gly Arg Leu Ser Arg Asn Ser
 275 280 285

11863

Gln Asn Ser Arg Gly Ser Gly Arg Gly Gln Met Ile Ser Ala Pro Val
 290 295 300
 Met Ala Glu Asn Ser Leu Gly Trp Asn
 305 310

<210> 30979
 <211> 136
 <212> PRT
 <213> A.fumigatus

<400> 30979
 Gln Leu Gly Leu Ala Val Val Pro Phe Leu Pro Tyr Ile Phe Asp Glu
 1 5 10 15
 Pro Val Gly Glu Ala Val Glu Trp Ser Phe Arg Thr Ala Leu Arg Ala
 20 25 30
 Tyr Ala Gly Glu Asp Ala Val Arg Pro Phe Pro Ala Pro Ala Thr Ala
 35 40 45
 Ser Ala Ala His Pro Ala Glu Thr Gly Ala Asp Ala Pro Ser Val Ser
 50 55 60
 Arg Tyr Leu Lys Thr Gln Ala Glu Lys Asn Ser Ser Val Ala Leu Gly
 65 70 75 80
 Ala Asp Gly Ser Val Ala Ala Ser Ala Asn Leu Ser Trp Glu Glu Tyr
 85 90 95
 Lys Ala Glu Arg Gln Lys Ala Lys Glu Glu Arg Arg Arg Gln Arg Glu
 100 105 110
 Ala Lys Gly Trp Thr Gly Pro Leu Ala Trp Leu Gly Leu Gly Ser Asp
 115 120 125
 Ser Asp Ser Lys Ser Lys Thr Glu
 130 135

<210> 30980
 <211> 307
 <212> PRT
 <213> A.fumigatus

<400> 30980
 Cys Arg Pro Arg Arg Leu Gln Ser Leu Pro Ala Gln Pro Ala Arg Pro
 1 5 10 15
 Arg Pro Thr Arg Arg Gly Leu Gln Gly Arg Gln Arg Pro Leu Gly Gln
 20 25 30
 Arg Gly Arg His Gly His Gly Asn Arg Arg His Gly Gln Ser Gln Arg
 35 40 45
 Arg His Arg Cys Arg Ala Arg Ser Leu Ala Asp Asn Pro His Pro Pro
 50 55 60
 His Arg Gly Leu Pro His Gly Asn Gly Gln Thr Gly Arg Val Pro Glu
 65 70 75 80
 His Arg Lys His Gly Ala Ala Gly Val His Asp Pro Leu Gly Gly Glu
 85 90 95
 Val Leu Arg Ala Asn Asp Glu Glu Gln Gln Glu Arg Leu Cys Ala Asp
 100 105 110
 Met Asp Pro Tyr Arg Arg Met Phe Pro Ser Thr Arg Ala Ala Leu Gly
 115 120 125
 Lys Ser Ser Thr Ala Thr Asn Val Asn Cys Asn Asp Ser Trp Ala Leu
 130 135 140
 Pro Ser Ser Pro Ser Ser His Thr Ser Ser Thr Asn Pro Ser Ala Lys
 145 150 155 160

11864

Gln Trp Asn Gly Pro Ser Gly Pro Leu Ser Ala Pro Thr Gln Ala Arg
 165 170 175
 Thr Pro Ser Gly Pro Ser Pro Pro Arg Pro Arg Pro Gln Pro Leu Thr
 180 185 190
 Pro Gln Arg Gln Ala Gln Met His Leu Pro Tyr Arg Asp Thr Ser Arg
 195 200 205
 Pro Lys Arg Arg Arg Thr His Pro Trp Arg Ser Glu Pro Thr Val Pro
 210 215 220
 Ser Gln Arg Ala Arg Ile Ser Pro Gly Arg Ser Thr Arg Pro Ser Gly
 225 230 235 240
 Arg Arg Pro Arg Arg Ser Val Gly Gly Ser Ala Arg Pro Arg Ala Gly
 245 250 255
 Arg Asp Arg Ser Leu Gly Trp Gly Ser Gly Arg Thr Arg Thr Arg Arg
 260 265 270
 Val Lys Pro Ser Asn Gly Ser Leu Phe Ser Phe Asn Thr Lys Phe Gly
 275 280 285
 Trp Ala Gly Ala Gly Arg Phe Met Gly Phe Met Arg Pro Ala Leu Glu
 290 295 300
 Leu Val Cys
 305

<210> 30981

<211> 152

<212> PRT

<213> A.fumigatus

<400> 30981

Ser Leu Thr His Ile Val Gly Phe Ser Leu Ser Gly Leu Leu Gln Tyr
 1 5 10 15
 Ser Gly Leu Val Pro Ala Gln Gly Val Leu Gly His Asp Arg Ser Thr
 20 25 30
 Asp His Leu Ala Pro Ala Thr Ser Pro Ala Ile Leu Ala Val Ala Gly
 35 40 45
 Lys Thr Thr Ala Ser Gly Glu Arg Thr Gly Pro Thr Thr Phe Thr
 50 55 60
 Arg Leu Leu His Ser Gly Ile Gly Ala Ala Met Gln Leu Thr Leu Leu
 65 70 75 80
 Ala Val Ala Thr Ser Asn Pro Glu His Thr Arg Thr Ile Ser Cys Ser
 85 90 95
 Ala Ala Tyr Asp Thr Asn Ala Asp Ala Asn Arg Ala Gly Thr Ser Arg
 100 105 110
 Ser Ala Ala Thr Gly Thr Gly Ile Arg Ile Val Ala Arg Val Thr Ala
 115 120 125
 Thr Ala Ile Thr Ile Thr Ala Ala Thr Thr Ala Ala Asp Ser Thr Val
 130 135 140
 Ala Ile Gln Ser Ala Ala Thr Arg
 145 150

<210> 30982

<211> 140

<212> PRT

<213> A.fumigatus

<400> 30982

Arg Thr Ala Tyr Gly Ile Ser Trp Thr Tyr Leu Phe Gly Asp Val Ala
 1 5 10 15

His Glu Gly Tyr Lys Ala Tyr Leu Arg Asn Arg His Val Leu Ala Pro
 20 25 30
 Pro Gly Glu Ala Tyr Lys Asp Ala Lys Asp Leu Ser Ala Asn Glu Val
 35 40 45
 Val Met Gly Met Ala Thr Gly Asp Met Gly Ser Pro Ser Ala Gly Thr
 50 55 60
 Asp Ala Glu Leu Ala Pro Trp Pro Thr Thr Arg Ile Pro Leu Ile Glu
 65 70 75 80
 Asp Tyr Arg Met Val Met Val Lys Arg Ala Val Phe Gln Ser Ile Ala
 85 90 95
 Ser Met Gly Leu Pro Ala Phe Thr Ile His Ser Val Val Lys Tyr Ser
 100 105 110
 Gly Gln Met Met Lys Asn Asn Lys Asn Val Phe Val Arg Thr Trp Thr
 115 120 125
 Pro Ile Gly Val Cys Ser Pro Pro Pro Glu Gln Arg
 130 135 140

<210> 30983

<211> 339

<212> PRT

<213> A.fumigatus

<400> 30983

His Ile Thr Arg Ser Met Ser Ser Tyr Asp Val Leu Val Thr Gly Ser
 1 5 10 15
 Ala Gly His Leu Gly Thr Ala Leu Met Leu Ser Leu Pro Glu Leu Gly
 20 25 30
 Phe Thr Pro Phe Gly Ile Asp Ile Leu Pro Ser Ser Thr Thr Arg
 35 40 45
 Val Gly Ser Ile Thr Asp Arg Ala Phe Ile Ser Ser Val Leu Met Ser
 50 55 60
 His Pro Ile Lys His Ile Leu His Ala Ala Thr Leu His Lys Pro His
 65 70 75 80
 Ile Cys Ser His Gln Asn Glu Asp Phe Val Ala Thr Asn Ile Leu Gly
 85 90 95
 Thr Leu Val Leu Leu Glu Glu Ser Ala Lys Ser Pro Arg Gln Ile Glu
 100 105 110
 Ser Phe Ile Phe Phe Ser Thr Thr Ser Thr Phe Gly Met Ala Leu Ser
 115 120 125
 Pro Lys Pro Gly Ser Pro Ala Ala Trp Ile Asp Glu Thr Val Val Pro
 130 135 140
 Glu Pro Lys Asn Ile Tyr Gly Val Thr Lys Val Ala Ala Glu Asp Leu
 145 150 155 160
 Cys Ala Leu Ile His Lys Gln Ser Gly Met Pro Val Leu Val Leu Arg
 165 170 175
 Thr Ser Arg Phe Phe Pro Glu Glu Asp Asp Asp Glu Gly Arg Arg Ala
 180 185 190
 Ala Met Ser Asp Glu Asn Leu Lys Val Leu Glu Leu Ala Tyr Arg Arg
 195 200 205
 Cys Asp Ile Glu Asp Ile Val Arg Ala Ala Val Cys Ala Met Ala Lys
 210 215 220
 Ala Arg Asp Ile Arg Trp Gly Lys Tyr Ile Ile Ser Ala Pro Pro Leu
 225 230 235 240
 Phe Lys Asn Asp Ala Arg Thr Leu Asp Gln Leu Asp Arg Asn Pro Ala
 245 250 255
 Glu Val Phe Asn Glu Leu Cys Pro Glu Leu Gly Ala Val Phe Glu Lys

<210> 30984

<211> 102

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

$\langle 222 \rangle$ (90)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30984

[illegible]

<210> 30985

<211> 274

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (4)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30985

Thr	Gly	Thr	Xaa	Leu	Gly	Val	Leu	Asp	Thr	Leu	Lys	Asn	Met	Pro	Thr
1				5					10					15	
Glu	Leu	Pro	Pro	Gly	Thr	Val	Gly	Asn	Leu	Thr	Ala	Glu	Gln	Glu	Ala
			20					25					30		
Lys	Leu	Gln	Glu	Phe	Trp	Ile	Leu	Leu	Leu	Lys	Val	Phe	Gly	Val	Lys
		35					40					45			
Leu	Asp	Ala	Leu	Glu	Ser	Ala	Lys	Glu	Ala	Ser	Thr	Ser	Ala	Ser	Gln

50		55		60
Glu Asn Lys Lys Glu Ser Lys Arg Arg Phe Gly Leu Phe Gly Arg Gly				
65		70		75
Lys Asp Ser Glu Asp Gly Thr Ala Ser Glu Lys Ser Ala Glu Gly Ile				80
	85		90	95
Thr Thr Asn Leu Ala Ser Ile Asn Ile Ser Asp Thr Asp Asp Lys Tyr				
	100		105	110
Gly Gln Ser Lys Glu Phe Gln Gln Thr Leu Val Asp Met Ser Pro Glu				
	115		120	125
Asp Ile Arg Thr Thr Phe Trp Thr Met Val Lys Gln Asp Asn Pro Asp				
	130		135	140
Ser Leu Leu Leu Arg Phe Leu Arg Ala Arg Lys Trp Asp Val Lys Asn				
145		150		155
Ala Leu Val Met Phe Ile Ser Thr Ile Arg Trp Arg Leu Met Asp Val				
	165		170	175
Lys Val Asp Asp Asp Ile Met Lys Asn Gly Glu Gln Gln Ala Leu Arg				
	180		185	190
Gln Ser Gln Ser Ser Asp Pro Ile Glu Lys Lys Ala Gly Glu Glu Phe				
	195		200	205
Leu Thr Gln Met Arg Arg Gly Lys Ser Phe Leu His Gly Val Asp Lys				
	210		215	220
Ser Gly Arg Pro Ile Cys Val Val Arg Val Arg Leu His Lys Ala Gly				
225		230		235
Asp Gln Ser Gln Glu Val Leu Asp Arg Phe Thr Val Tyr Thr Ile Glu				
	245		250	255
Ser Ala Arg Met Met Leu Ala Pro Pro Val Glu Thr Ala Val Ser Leu				
	260		265	270
Lys Ser				

<210> 30986

<211> 64

<212> PRT

<213> A.fumigatus

<400> 30986

Pro Thr Ser His Trp Arg Ile Trp Tyr Asp His Asp Leu Gln Ser Ala				
1	5		10	15
Ile Asn Ile His Leu Pro Arg Gln Asp Tyr Ser Pro Val Lys Phe Met				
	20		25	30
Ile Lys Cys Phe Glu Ala Asn Tyr Pro Glu Ser Leu Gly Val Val Leu				
	35		40	45
Ile His Lys Ala Pro Trp Ile Phe Ser Gly Leu Ser Ser Phe Leu Asn				
50		55		60

<210> 30987

<211> 170

<212> PRT

<213> A.fumigatus

<400> 30987

Lys Pro Tyr Val Leu Lys Tyr Phe Cys Thr Gly Ile Trp Asn Ile Ile				
1	5		10	15
Lys Gly Trp Leu Asp Pro Val Val Ala Ala Lys Val His Phe Thr Lys				
	20		25	30
Asn Val Lys Asp Leu Glu Gln Phe Ile Pro Arg Asp Arg Ile Met Lys				

Pro	Gln	Ile	Arg	Glu	Gln	Ser	Val	Lys	Phe	Phe	Gly	Gln	Asn	Pro	Ser
1				5					10					15	
Thr	Asp	Asn	Asn	Arg	Asn	Ser	Ala	Cys	Ala	Thr	Leu	Phe	Asn	Leu	Lys
		20						25					30		
Thr	Arg	Asn	Leu	Thr	Ile	Leu	Thr	Ile	His	Leu	Trp	Ala	Pro	Cys	Gln
		35					40					45			

Pro Pro Met Ser Ile His Ile Pro Leu Arg Arg Ser Ala Val Thr Thr
 50 55 60
 Ala Arg Val Gln Thr Ser Thr Thr Tyr Ile Cys Ser Gln Cys Arg His
 65 70 75 80
 Ala Thr Leu Leu Arg Arg Pro Lys Arg Pro Tyr Thr Phe Thr Gln Leu
 85 90 95
 Ile Thr Leu Ser Asp Gly Ser Thr Phe Thr His Arg Thr Thr Ser Pro
 100 105 110
 Thr Pro Val Tyr Arg Ser Thr Arg Asp Thr Arg Asn Ser Leu Leu Trp
 115 120 125
 Asn Pro Ser Ser Ser Lys Leu Met Asn Val Glu Glu Asp Glu Ala Gly
 130 135 140
 Arg Leu Ala Ala Phe Arg Ala Lys Phe Gly Arg Ser Trp Asp Ala Asn
 145 150 155 160
 Thr Pro Ala Glu Gly Asp Thr Asp Thr Glu Val Ala Ala Lys Gly Lys
 165 170 175
 Glu Ala Ala Asp Ala His Ala Ala Ala Ala Glu Ala Ala Leu Ala
 180 185 190
 Glu Glu Glu Asp Asp Asn Leu Leu Asp Leu Ile Ser Ser Phe Gly Gln
 195 200 205
 Glu Met Glu Gln Glu Pro Pro Lys Lys Lys Lys
 210 215

<210> 30990

<211> 274

<212> PRT

<213> A.fumigatus

<400> 30990

Ile Leu Arg Pro Phe Lys Ser Leu Lys Ser Arg Ala Arg Ser Ile Leu
 1 5 10 15
 Ala Met Ala Ser Arg Arg Ser Arg Ser Pro Ser Thr Pro Ser Glu Gly
 20 25 30
 Glu Ile Ile Glu Ser Gly Ser Glu Thr Lys Ala Thr Thr Ser Gln Leu
 35 40 45
 Pro Leu Asn Gly Thr Ser Val Asp Arg Gln Thr Arg Val Ser Thr Ser
 50 55 60
 Ser Ala Leu Arg Ser Pro Ala Ser Val Ser Arg Ser Pro Arg Gln Arg
 65 70 75 80
 Arg Ser Arg Ala Arg Thr Trp Ser Arg Ser Arg Ser Arg Ser Arg Ser
 85 90 95
 Arg Ser Pro Tyr Arg Asp His Arg Gly Gln Lys Arg Arg His Ala Asp
 100 105 110
 Asp Tyr Asn Glu Arg Arg Tyr Arg Asn Glu Pro Ser Arg Arg Gly Gly
 115 120 125
 Pro Arg His Asn Asp Asp Arg His Tyr Asn Arg Gly Pro Ala Ser His
 130 135 140
 Ile Arg Ser Arg Pro Tyr His Asp Tyr Asp Arg Asp Tyr Tyr Gly
 145 150 155 160
 Gly Gly Leu Arg Tyr Thr Asp Asp Tyr Asp Arg Arg Gly Asp Lys Arg
 165 170 175
 Pro Arg Thr Arg Ser Arg Ser Pro Tyr Arg Glu Val Arg Lys Pro Lys
 180 185 190
 Gln Tyr Ser Gly Asp Glu Trp Asp Ser His Arg Glu Gly Ser Val Ala
 195 200 205
 Ser Arg Asp Thr Glu Arg Gln Arg Ser Ser Thr Glu Gln Leu Val Ser

11870

210		215		220
Glu Arg Gly Lys Pro	Pro Val Val Ala Gln Asp	Ser Arg Gln Asp Ala		
225	230	235	240	
Glu Val Arg Lys Asn	Gln Val Leu Gln Val	Pro Ser His Pro Ser	Ser	
	245	250	255	
Leu Val Glu Asp Arg	Tyr Gly Cys Pro Gly	Pro Leu Leu Arg Phe	Met	
	260	265	270	
His Arg				

<210> 30991

<211> 237

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (33), (87)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30991

Ile Thr Gly Thr	Ile Gln Lys Gly Tyr Tyr	Asn Val Arg Arg Gly Glu
1	5	10
Leu Ile Asn Glu Arg Tyr	His Val Lys Gln Asn Leu Gly Lys Gly Met	
	20	25
Xaa Ser Ser Val Val Arg Ala Thr Asp Ala Lys Thr Gly Gly Phe Val		
	35	40
Ala Ile Lys Ile Ile Arg Gln Asn Asp Thr Met Arg Lys Ala Gly Leu		
	50	55
Lys Glu Ile Gly Ile Leu Glu Gln Leu Arg Glu Ala Asp Pro Glu Asp		
65	70	75
Lys Lys His Val Ile Arg Xaa Glu Arg His Phe Asp His Lys Gly His		
	85	90
Leu Cys Met Val Phe Glu Asn Leu Ser Met Asn Leu Arg Glu Val Leu		
	100	105
Lys Lys Phe Gly Arg Asp Val Gly Leu Asn Leu Arg Ala Ile Arg Ala		
	115	120
Tyr Ala Gln Gln Ile Phe Leu Gly Leu Ser Leu Leu Arg Lys Cys Asn		
	130	135
Ile Leu His Ala Asp Leu Lys Pro Asp Asn Leu Leu Val Asn Glu Gln		
145	150	155
Arg Asn Val Leu Lys Val Cys Asp Leu Gly Ser Ala Ser Pro Ala Thr		
	165	170
Asp Asn Glu Ile Thr Pro Tyr Leu Val Ser Arg Phe Tyr Arg Ala Pro		
	180	185
Glu Ile Ile Leu Gly Ile Pro Tyr Asp His Ala Ile Asp Val Trp Ser		
	195	200
Ile Gly Cys Thr Leu Phe Glu Leu Tyr Thr Gly Lys Ile Leu Phe Thr		
	210	215
Gly Arg Asn Asn Asn Gln Met Leu Arg Ser Ile Val Phe		
225	230	235

<210> 30992

<211> 161

<212> PRT

<213> A.fumigatus

<400> 30992

Thr Asn Ser Ala Leu Leu Ile Ala Ser Pro Gln Leu Ser Ala Ala Glu
 1 5 10 15
 Ala Pro Asn Asp Ser Ala Gly Asp Ser Phe Pro Glu Phe Gly Asn Asp
 20 25 30
 Thr Asp Ile Ala Asn His Asp Ala Pro Thr Asp Gly Ala Asp Lys Asp
 35 40 45
 Glu Pro Ser Ala Ala Asp Tyr Asp Pro Thr Ile Asp Met Lys Ala Glu
 50 55 60
 Arg Gln Lys His Asp Ala Gly Asp Ser Asn Gly Asp Val Ser Ser Ala
 65 70 75 80
 Arg Tyr Asp Glu Thr Gln Thr Thr Lys Gln Asp Val Leu Met Pro Asp
 85 90 95
 Ala Pro Gln Ala Gln Gln Ser Glu Ser Lys Ala Lys Asp Pro Tyr Asp
 100 105 110
 Met Phe Ala Glu Asp Asp Asp Asp Met Phe Ala Glu Asp Lys Glu Glu
 115 120 125
 Thr Thr Gln Pro Thr His Ala Ser Ala Val Pro Val Pro Gln Pro Gln
 130 135 140
 Glu Leu Asp Ile Ser Met Met Asn Asn Trp Asp Asp Pro Glu Gly Val
 145 150 155 160
 Leu

<210> 30993

<211> 174

<212> PRT

<213> A.fumigatus

<400> 30993

Ser Pro Cys Ser Ser Thr Ala Asn Ser Phe Leu Asp Ser His Phe Gln
 1 5 10 15
 Val Arg Ala Val Ala Tyr Pro Asn Pro Asn Val Val Ile Ser Ala Ser
 20 25 30
 Arg Asp Ala Thr Val Arg Leu Trp Lys Leu Val Ser Thr Pro Pro Pro
 35 40 45
 Val Tyr Asp Ser Thr Val Ser Ser His Gly Ser Ala Phe Val Asn Ala
 50 55 60
 Val Ala Tyr Tyr Pro Pro Thr Ser Glu Phe Pro Glu Gly Leu Val Leu
 65 70 75 80
 Ser Gly Gly Gln Asp Thr Ile Ile Glu Ala Arg Gln Pro Gly Lys Thr
 85 90 95
 Pro Asp Asp Asn Ala Asp Ala Met Leu Leu Gly His Gly His Asn Val
 100 105 110
 Cys Ala Leu Asp Val Cys Pro Glu Gly Gly Trp Val Ile Ser Gly Ser
 115 120 125
 Trp Asp Ser Thr Ala Arg Leu Trp Arg Val Gly Lys Trp Glu Cys Asp
 130 135 140
 Val Val Met Glu Gly His Gln Gly Ser Val Trp Ala Val Leu Ala Tyr
 145 150 155 160
 Asp Lys Asp Thr Val Ile Thr Gly Ala Ser Ile Ala Ser Arg
 165 170

<210> 30994

<211> 345

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (336)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 30994

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Pro Gly Cys Ala Asp Lys Ile Ile Arg Ile Phe Asn Thr Ser Gly Asp
1          5          10          15
Leu Val Arg Ser Ile Lys Asp Ser Arg Asp Val Val Arg Ala Leu Cys
          20          25          30
Lys Leu Pro Ala Ser His Pro Ser Gly Ala His Phe Ala Ser Ala Ser
          35          40          45
Asn Asp Gly Ile Ile Arg Leu Phe Thr Leu Gln Gly Glu Leu Ile Ser
          50          55          60
Glu Leu Leu Gly His Glu Ser Phe Ile Tyr Ser Leu Asp Val Leu Pro
65          70          75          80
Thr Gly Glu Leu Val Ser Ser Gly Glu Asp Arg Thr Val Arg Ile Trp
          85          90          95
Asn Gly Thr Gln Cys Val Gln Thr Ile Thr His Pro Ala Ile Ser Val
          100          105          110
Trp Gly Val Ala Ala Cys Arg Glu Asn Gly Asp Ile Val Thr Gly Ala
          115          120          125
Ser Asp Arg Val Thr Arg Ile Phe Ser Arg Asn Glu Glu Arg Val Ala
          130          135          140
Ser Pro Glu Val Val Gln Gln Phe Asp Lys Ala Val Lys Glu Ser Ala
145          150          155          160
Ile Pro Glu Gln Gln Val Gly Lys Ile Asn Lys Glu Lys Leu Pro Gly
          165          170          175
Pro Glu Phe Leu Lys Gln Lys Ser Gly Thr Lys Glu Gly Gln Val Gln
          180          185          190
Met Val Arg Glu Ala Asp Gly Ser Val Thr Ala His Thr Trp Ser Ala
          195          200          205
Ala Ser Gln Glu Trp Ile Ala Val Gly Thr Val Val Asp Ser Ala Ala
          210          215          220
Ser Ser Gly Arg Lys Ile Ala Tyr Met Gly Gln Asp Tyr Asp Tyr Val
225          230          235          240
Phe Asp Val Asp Val Glu Asp Gly Lys Pro Pro Leu Lys Leu Pro Tyr
          245          250          255
Asn Ile Ser Gln Asn Pro Tyr Glu Ala Ala Thr Lys Phe Ile Gln Asp
          260          265          270
Asn Glu Leu Pro Met Ser Tyr Leu Asp Gln Val Ala Gln Phe Ile Val
          275          280          285
Gln Asn Thr Gln Gly Thr Thr Leu Gly Gln Pro Val Gln Glu Pro Ala
290          295          300
Pro Thr Gly Ala Asp Pro Trp Gly Gln Glu Arg Arg Tyr Arg Pro Gly
305          310          315          320
Asp Ala Ile Ala Thr Ala Val Asp Pro Thr Pro Ala Val Tyr Thr Xaa
          325          330          335
Asp Gly Trp Lys Asp Thr Ser Trp Tyr
          340          345

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<210> 30995

<211> 60

<212> PRT

<213> A.fumigatus

<400> 30995

Gly Leu Ser Glu Asn Ala Ser Pro Asn Thr Lys Pro Ala Gly Leu Gly
 1 5 10 15
 Leu Ser Pro Pro Leu Pro Leu Leu Tyr Phe Leu Asp Leu Phe Asn Leu
 20 25 30
 Phe His Met Tyr Leu Gln Ala Leu Thr Asn Met Leu Leu Ser Ser Leu
 35 40 45
 Leu Leu Leu Ala Arg Cys Ser Asp Gln Ala Ala Glu
 50 55 60

<210> 30996

<211> 391

<212> PRT

<213> A.fumigatus

<400> 30996

Leu Arg Gly Pro Phe His Pro Val Val Lys Thr Phe Ala Ala Ala Ile
 1 5 10 15
 Ser Met Ala Gly Asp Leu Leu Pro Met Met Ser Leu Leu Val Met Phe
 20 25 30
 Ser Val Val Val Phe Phe Thr Asp Arg Pro Leu Arg Ala Pro Val Ala
 35 40 45
 Phe Thr Ser Leu Ser Ile Met Glu Thr Leu Arg Ser Gln Phe Val Trp
 50 55 60
 Leu Ser Asn Ile Ser Arg Tyr Ser Ala Gln Gly Ala Glu Ser Leu Arg
 65 70 75 80
 Arg Val Asp His Phe Phe Asp Thr Ala Gly Glu Ile Arg Arg His Pro
 85 90 95
 Asp Gly Pro Leu Glu Leu Lys His Ala Thr Phe Arg Arg Thr Pro Ile
 100 105 110
 Ala Asp Phe Arg Leu His Asp Ile Ser Val Ser Phe Lys Gln Ser Ala
 115 120 125
 Leu Asn Val Val Ala Gly Pro Thr Gly Ser Gly Lys Thr Ser Leu Leu
 130 135 140
 Leu Ser Leu Leu Gly Glu Thr Val Leu Glu Ser Gly Thr Ala Thr Cys
 145 150 155 160
 Pro Gln Asp Val Ala Tyr Val Pro Gln Ser Pro Trp Leu Gln Asn Asp
 165 170 175
 Thr Ile Arg Gln Asn Ile Ile Phe His Ser Ser Phe Asp Glu Ala Arg
 180 185 190
 Tyr Asn Thr Val Ile Glu Ala Ser Gly Leu Ile Gln Asp Leu Gln Gln
 195 200 205
 Leu Pro Ala Gly Asp Leu Thr Leu Val Gly Glu Arg Gly Thr Ser Leu
 210 215 220
 Ser Gly Gly Gln Lys Gln Arg Val Ser Leu Ala Arg Ala Leu Tyr Ser
 225 230 235 240
 Arg Ser Ser Thr Leu Leu Asp Asp Ile Phe Ser Ala Leu Asp Thr
 245 250 255
 His Thr Thr Thr Leu Val Tyr Asp Lys Cys Phe Arg Ser Gly Leu Leu
 260 265 270
 Ala Asp Arg Thr Val Val Leu Val Thr His Leu Pro Ala Ala Leu Lys
 275 280 285
 Asp Ala Asp Gln Ile Val Gln Leu Asn His Gly Arg Ala Ser Val Ile

290		295		300
Lys Thr Ala Ser Glu Ser Ser Arg Ala Gln Thr Arg Ser Val Leu Asp				
305		310		315
Leu Val Glu Glu Ser Glu Gln Asp Ala Ala Thr Ser Gly Pro Pro Thr				320
	325		330	335
Thr Ala Glu Gly Ser Ser Thr Glu Ser Glu Ala Thr Val Asn Val Leu				
	340		345	350
Pro Phe Ala Asp Gln Ser Val Gln Thr Ser Arg Ile Val Lys Glu Met				
	355		360	365
Ser Ala Thr Gly Arg Val Pro Arg Thr Leu Cys Glu Phe Ile Pro Ala				
	370		375	380
Glu Pro Arg Ser His Arg Cys				
385		390		

<210> 30997

<211> 391

<212> PRT

<213> A.fumigatus

<400> 30997

Thr Ser Ser Lys Ser Gln Asn Lys Thr Gln Gln Pro Ala Val Leu Gln				
1	5		10	15
Gln Leu Gln Lys Gly Leu Leu Pro Asn Gln Lys Pro Pro Ser Met Ser				
	20		25	30
Cys Leu Ser Gln Thr Asn Leu Tyr Arg Gln Val Ala Leu Ser Lys Lys				
	35		40	45
Cys Arg Leu Gln Val Ala Phe His Val His Tyr Val Ser Leu Tyr Gln				
	50		55	60
Leu Ser His Val Val Ile Asp Ala Asn Ile Ser Leu Val Leu Arg Tyr				
	65		70	75
Met Leu Leu Phe Gly Gly Val Ser Tyr Ala Met Ala Met Met Leu Ala				
	85		90	95
Thr Val Thr Val Gln Phe Ala Tyr Phe Ser Ile Thr Tyr Trp Leu Ser				
	100		105	110
Ile Trp Thr Ser Ala Tyr Glu Lys Tyr Asp His Pro Asn Ser Leu Phe				
	115		120	125
Tyr Leu Ala Val Tyr Ala Ala Ala Ile Val Ser Phe Leu Leu Leu Gln				
	130		135	140
Ile Thr Asn Asn Leu Leu Tyr Gln His Gly Ser Trp Thr Ala Ala Lys				
	145		150	155
Lys Met His Arg Lys Leu Val Glu Ala Val Leu Ser Ala Pro Ile Ser				
	165		170	175
Trp Phe Asp Glu Asn Pro Ile Gly Arg Ala Ile Asn Arg Phe Gly Asn				
	180		185	190
Asp Thr Arg Ser Met Asp Thr Val Leu Ile Asp Trp Leu Arg Met Ser				
	195		200	205
Ile Glu Asn Gly Leu Arg Phe Leu Leu Arg Ile Ala Ser Ile Ala Ser				
	210		215	220
Ile Met Pro Ile Phe Ala Leu Pro Ala Ala Val Val Cys Thr Ile Gly				
	225		230	235
Phe Leu Ile Gly Glu Met Tyr Thr Arg Ala Gln Ile Ser Ile Lys Arg				
	245		250	255
Leu Cys Ser Ile Asn Tyr Ser Pro Ile Phe Ser His Phe Thr Asp Ser				
	260		265	270
Leu Ala Gly Met Thr Val Ile Arg Ala Arg Glu Gly Met Thr Gly Val				
	275		280	285

11875

Phe Gln Arg Leu Leu Ala Glu Lys Leu Ala Val His Ala Arg Ser Ala
 290 295 300
 Glu Ala Gln Tyr Asn Cys Asn Arg Trp Val Ser Val Arg Ser Asp Leu
 305 310 315 320
 Cys Ala Ala Ser Val Ala Ala Ser Ala Gly Cys Val Ala Tyr Phe Trp
 325 330 335
 Ser Gly Ser Ala Gly Leu Val Gly Phe Ser Leu Thr Asn Ala Ile Gly
 340 345 350
 Leu Ser Gln Thr Ile Leu Thr Leu Val Arg Thr Met Asn Asp Leu Glu
 355 360 365
 Val Gln Leu Asn Ser Phe Pro Thr Asn Lys Pro Asn Thr Pro Lys Ser
 370 375 380
 Asn Leu Lys Glu Glu Thr Glu
 385 390

<210> 30998

<211> 67

<212> PRT

<213> A.fumigatus

<400> 30998

Ser Glu Ile Ala Ser Gly Lys Leu Leu Lys Ile Leu Asp Glu Ala Thr
 1 5 10 15
 Gly Phe Asn Asp Gly Ile Val Pro Gly Leu Val Lys Arg Ala Val Lys
 20 25 30
 Tyr Tyr Val Leu Ser Asn Gly Ile Ile Leu Gln Pro Trp Arg Leu Trp
 35 40 45
 Tyr Ile Gly His Ile Leu Arg Ala Gly Ser Ser Ser Arg Leu Lys Tyr
 50 55 60
 Ser Leu Thr
 65

<210> 30999

<211> 240

<212> PRT

<213> A.fumigatus

<400> 30999

Lys Arg Trp Cys Asn Ser Gly His Tyr Ser Arg Arg Leu Gly Arg Arg
 1 5 10 15
 Lys Val Ser Thr Ser His Ile Pro Ala Pro Gln Lys Thr Ser Lys Leu
 20 25 30
 Thr Ser Tyr Gly His Ser Ser Leu Arg Glu Val Pro Asp His Gln Glu
 35 40 45
 Leu Phe Leu Ser Pro Thr Thr Leu Ser Ser Phe Ile Val Glu Val Asn
 50 55 60
 Gln Arg Val Thr Gln Glu Ala Leu Ser Thr Leu Asp Ala Gln Ala
 65 70 75 80
 Ala Val Pro Gly Gly Ile Pro Ala Thr His Glu Thr Ile Asp Lys Ala
 85 90 95
 Ala Val Met Tyr His Leu Arg Asp Leu Cys Asp Glu Asp Asp Thr Leu
 100 105 110
 Gln Val Ile Ile Pro Ala Thr Ala Val Thr Pro Ala Lys Ile Pro Ala
 115 120 125
 Ser Ala Arg Ala His Ala Tyr Lys Gly Val Val Gln Met Thr Thr Pro
 130 135 140

11876

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Lys Arg Gln Arg Arg Asp Thr Asn Thr Gly Arg Ile Pro Val Ser Val
145                      150                      155                      160
Gly Gly Ala Ala Ala Gly Ser Ser Ala Asp Gly Pro Gln Thr Ser Arg
                      165                      170                      175
Val Thr Val His Tyr Leu Leu Val Arg Leu Glu Ala Gln Glu Ser Asp
                      180                      185                      190
Leu Leu Ile Phe Phe Asn Val Pro His Asp Glu Phe Asp Leu Ser Gly
                      195                      200                      205
Asp Pro Arg Gly Leu Ser Lys Glu Glu Glu Val Ala Thr Glu Ala Ile
                      210                      215                      220
Asp Arg Leu Val Gln Thr Leu Glu Ile Arg Asp Trp Ala Leu Phe Ala
225                      230                      235                      240

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<210> 31000

<211> 109

<212> PRT

<213> A.fumigatus

<400> 31000

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Thr Gly Met His Leu Cys Leu Lys Leu Ile Pro Cys Ala Lys Thr Ser
1                      5                      10                      15
Leu Lys Ser Thr Phe Thr Asn Leu Arg Ser Asp Gly Leu His Gln Asp
                      20                      25                      30
Ser Ala Thr Ser Arg Glu Ser Gly Thr Ser Ser Thr Arg Leu Glu Lys
                      35                      40                      45
Ser Gln Tyr Arg Leu Arg Glu Asp Val Glu Gly Leu Glu Asp Asn Ala
                      50                      55                      60
Leu Glu Val Tyr Tyr Pro Leu Gln Thr Gly Asp Glu Ser Asp Cys Gly
65                      70                      75                      80
Arg Tyr Trp Leu Val His Lys Pro Gly Tyr Gly Gly Tyr Ser Thr Ile
                      85                      90                      95
Trp Leu Ala Arg Asp Leu Gln Arg Ala Arg Tyr Trp Glu
                      100                      105

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<210> 31001

<211> 212

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (57)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31001

```

Thr Phe Arg Lys Gly Ile Glu Val Thr Cys Cys Leu Ser Leu Leu Lys
1                      5                      10                      15
Ser Gly His Val Ile Asp Phe Asp Asn Leu Ala Met Arg Leu Pro Tyr
                      20                      25                      30
Val Phe Asp Ser Pro Pro Thr Ser Thr Pro Glu Glu Ala Glu Ile Leu
                      35                      40                      45
Ala Arg Val Lys Ala Arg Arg Ala Xaa Gly Asp Leu Leu Pro Leu Asp
                      50                      55                      60
Arg Ala Leu Leu His Ser Phe Pro Val Ala Asp Gly Trp Asn Ser Phe
65                      70                      75                      80
Ile Gly Ala Ile Arg Thr Lys Thr Thr Leu Ser Thr Ile Ile Lys Glu

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<210> 31002
<211> 74
<212> PRT
<213> A.fumigatus
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<210> 31003
<211> 156
<212> PRT
<213> A.fumigatus
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<400> 31003															
Gly	Cys	Thr	Met	Thr	Cys	Gln	Asp	Arg	Pro	Tyr	Ser	Arg	Asp	Pro	His
1				5					10					15	
Asn	Asp	Ile	Arg	Ile	Thr	Leu	Tyr	Ser	Asn	Leu	Asn	Trp	Lys	His	Asn
			20					25					30		
Asp	Ala	His	Ser	Ile	Asn	Cys	Pro	Gln	Tyr	Lys	Tyr	Thr	Leu	Ser	Ala
			35				40					45			
Ser	Pro	Leu	Ile	Phe	Asn	Tyr	Arg	Leu	Arg	Lys	Lys	Arg	Ser	Leu	Pro
			50			55					60				
Lys	Tyr	Pro	Glu	Thr	Ile	Met	Pro	Ser	Gly	Phe	Ala	Ser	Asn	Asn	Leu
65					70					75					80
Tyr	Trp	Glu	Thr	Glu	Ala	Pro	Leu	Gln	Lys	Gly	Lys	Pro	Thr	Val	Leu
				85					90					95	
Phe	Ile	His	Ala	Ser	Trp	Met	Ser	Ser	Ala	Met	Trp	Glu	Glu	Thr	Ile
			100					105					110		
Gln	Leu	Leu	Ala	Pro	Gln	Leu	Pro	Glu	Val	Asn	Leu	Leu	Arg	Val	Asp

11878

	115		120		125
Leu	Asn	Gly	His	Gly	Lys
	130		135		140
Trp	Asn	Gln	Ala	Glu	Asp
145			150		155

<210> 31004

<211> 207

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (108)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31004

Gly	Ile	Arg	Lys	Thr	Asp	Thr	Ala	Asn	Ser	Thr	Ala	Asn	Ile	Pro	Gln
1			5						10					15	
Arg	Glu	Leu	Glu	Leu	Ser	Asn	Val	Leu	Ile	Ala	Ala	Ile	Ser	Met	Gly
			20					25					30		
Ser	Met	Ile	Ala	Leu	Arg	Leu	Val	Leu	Leu	Asp	Gln	Ala	Arg	Phe	Ser
		35					40					45			
Gly	Leu	Val	Leu	Leu	Ala	Ser	Asn	Ala	Ser	Glu	Ala	Thr	Asn	Ala	Gln
	50					55					60				
Arg	Asp	Ala	Phe	Tyr	Gln	Leu	Arg	Asp	Ile	Trp	Val	Ala	Thr	Pro	Ala
65					70				75					80	
Pro	Ser	Glu	Gln	Ile	Met	Asn	Ala	Ala	Ile	Leu	Ser	Trp	Gly	Gly	Asn
				85					90					95	
Pro	Asp	Val	Glu	Gly	Pro	Arg	Ala	Thr	Arg	Ile	Xaa	Gln	Asp	Trp	Ile
		100						105						110	
Gln	Arg	His	Ser	Gly	Ala	Glu	Asn	Val	Glu	Pro	Thr	Leu	Thr	Ser	Met
		115					120					125			
Met	Glu	Arg	Asp	Ala	Val	Leu	Asn	Arg	Leu	Gly	Glu	Phe	Arg	Val	Pro
	130						135				140				
Val	Leu	Leu	Ile	His	Gly	Glu	Asp	Asp	Lys	Thr	Tyr	Pro	Leu	Gln	Asp
145					150				155					160	
Ala	Val	Glu	Ile	Lys	Glu	Arg	Leu	Val	Asn	Ala	Asp	Val	Arg	Leu	Glu
				165					170					175	
Val	Val	Lys	Asp	Glu	Gly	His	Leu	Leu	Ile	His	Leu	Arg	Glu	Ala	Lys
		180						185					190		
Asp	Val	Ala	Glu	Trp	Ile	Gln	Gly	Phe	Val	Gln	Lys	Val	Leu	Lys	
		195					200						205		

<210> 31005

<211> 65

<212> PRT

<213> A.fumigatus

<400> 31005

Asn	Asp	Gln	Leu	Asn	Trp	Leu	Gly	Ala	Glu	Thr	Asp	Tyr	Thr	Gly	Pro
1			5						10					15	
Asn	Trp	Gly	Ile	Gly	Phe	Ala	Lys	Ala	Lys	Thr	Ile	Val	Leu	Ala	Ser
		20						25					30		
Pro	Asp	Tyr	Gln	Val	Ile	His	Gly	Gln	Pro	Leu	Phe	Gly	Glu	Trp	Pro
		35					40						45		

11879

Glu Cys Ser Pro Ser Asn Pro Val Leu Gly Gly His Gln Gly Leu Ser
 50 55 60
 Val
 65

<210> 31006
 <211> 224
 <212> PRT
 <213> A.fumigatus

<400> 31006
 Pro Arg Gln Thr Thr Arg Ser Ser Met Gly Ser Arg Ser Leu Glu Asn
 1 5 10 15
 Gly Gln Asn Ala Val Gln Ala Ile Gln Ser Ser Glu Ala Thr Lys Gly
 20 25 30
 Ser Leu Ser Ser Val Gln Leu Asp Val Thr Asp Pro Thr Ser Thr Ala
 35 40 45
 Ser Ala Ala Lys Gln Ile Glu Ala Gln Phe Gly Arg Val Asp Val Leu
 50 55 60
 Val Asn Asn Ala Gly Val Phe Ser Gln Ser His Val Thr Lys Thr Ala
 65 70 75 80
 Met Glu Glu Thr Phe Ala Val Asn Ser Ile Gly Pro Ala Leu Val Ser
 85 90 95
 Glu Val Cys Asn Pro Leu Leu Met Lys Ser Ala Arg Pro Tyr Ser Ile
 100 105 110
 Phe Ile Ser Ser Ile Leu Gly Ser Leu Ser Glu Ala Ala Asp Pro Ser
 115 120 125
 Ser Ser Val His Tyr Tyr Asp Gly Val Ala Tyr Arg Met Ser Lys Ala
 130 135 140
 Ala Leu Asp Thr Leu Val Val Gln Gln His Lys Gln Phe Ser Pro Lys
 145 150 155 160
 Gly Ile Arg Val Phe Ala Val Cys Pro Gly Leu Val Arg Ser Asn Leu
 165 170 175
 Arg Gly Lys Ser Glu Glu Asp Val Ser Ala Gly Gly Arg Ala Gly Asp
 180 185 190
 Pro Met Val Pro Ala Glu Met Ile Leu Gly Ile Ile Gln Gly Lys Arg
 195 200 205
 Asp Ala Asp Ala Gly Lys Phe Leu Arg Gly Asp Met Val Leu Asn Trp
 210 215 220

<210> 31007
 <211> 101
 <212> PRT
 <213> A.fumigatus

<400> 31007
 Ser Asp Ile Asp Arg Ser Gly Trp Ser Gly Leu Ala Ala Ile Lys Thr
 1 5 10 15
 Tyr Leu Gln Val Asn Pro Ser Ser Lys Val Met Leu Leu Glu Ala Ala
 20 25 30
 Ser Ser Ile Gly Gly Val Trp Ala Lys His Arg Leu Tyr Lys Gly Leu
 35 40 45
 Lys Ser Asn Asn Met Leu Gly Thr Tyr Glu Phe Ser Asp Phe Pro Met
 50 55 60
 Asp Pro Ala Thr Phe Gly Val Gln Pro Gly Gln His Ile Pro Gly His
 65 70 75 80

11880

Val Ile Gln Gln Tyr Leu Glu Pro Ile Gly Gly Thr Phe Gln Val Pro
 85 90 95
 Gly Thr His Ser Gly
 100

<210> 31008
 <211> 620
 <212> PRT
 <213> A.fumigatus

<400> 31008
 Arg His Arg Asn Ala Phe Ala Leu Ala Val Ser Ile Pro Ala Ile Ala
 1 5 10 15
 Ile Gln Ala Glu Ile Val Leu Gln Ala Glu Thr Pro Pro Val Pro Gln
 20 25 30
 Ala Glu Pro Ile Ala Val Thr Glu Leu Pro Leu Pro Pro Val Ala Pro
 35 40 45
 Ser Asn His Ser Gly Ala Cys Thr Lys Ser Ile Asn Pro His Gly Thr
 50 55 60
 Gly Cys Ile Gly Ile Thr Ser Asp Thr Phe Gln Ala Gly Asp Phe Thr
 65 70 75 80
 Pro Asp Gly Asn His Val Leu Ala Asn Val Glu Phe Val Gly Ala Pro
 85 90 95
 Thr Ala Pro Asp Pro Ala Ser Val Tyr Thr Gly Gln Gln Leu Ile Ala
 100 105 110
 Val Lys Val Asp Gly Ser Leu Phe Pro Asn Gly Asp Pro Trp Lys Cys
 115 120 125
 Leu Ser Cys Gly Val Pro Ala Gly Gln Ala Gln Ser Leu Asp Pro Ala
 130 135 140
 Arg Asp Tyr Pro His Ala Ala Arg Asn Gly Arg Gln Ala Leu Trp Gly
 145 150 155 160
 His Asn Ile Leu Asp Cys Gly Asp Ala Leu Leu Val Ser Asp Glu Cys
 165 170 175
 Thr Pro Asn Lys Thr His Val Tyr Pro Ile Tyr Trp Ser Ser Gly Ser
 180 185 190
 Met Arg Glu Leu Arg Met His Pro Asp Asp Val His Met Gly Trp Ser
 195 200 205
 Ser Phe Thr Lys Gly Gly Gln Asn Ala Phe Phe Gly Arg Leu Leu Phe
 210 215 220
 Asn Pro Asn Pro Thr Thr Gly Ser Pro Val Val Pro Arg Tyr Glu Leu
 225 230 235 240
 Ile Asp Val Asn Ile Leu Val Asp Pro Asn Gly Arg Pro Ser Ile Met
 245 250 255
 Ala Glu Gly Thr Gln Leu Arg Leu His Asp Glu Ala Ile Val Val Gly
 260 265 270
 Glu Leu Arg Gly Phe Ser Gly Ala Gly Asp Glu Ile Leu Tyr Ile Gly
 275 280 285
 Pro Thr Arg Glu Ala Asn Asn Val Asp Leu Phe Ala Val His Val Thr
 290 295 300
 Ser Gly Ala Val Arg Arg Leu Thr Ser His Pro Glu Tyr Ala Asp Pro
 305 310 315 320
 Ile Ala Phe Ser His Asp Asn Gln Trp Phe Val Val Met Asp Thr Arg
 325 330 335
 Gly Ser Asn Arg Gln Met Trp Met Ser Gly Met Arg Tyr Val Pro Pro
 340 345 350
 Leu Ile Asp Leu Val Thr Met Thr Ala Ala Trp Ser Thr Arg Asn Asn

355	360	365
Gly Ala Arg Arg Phe Phe Gln Pro Ile Leu Val Asp Arg Tyr Gly Asp		
370	375	380
Arg Gly Ser Tyr Phe Gly Gln Gln Val Asn Ala Ala Gly Asn Gly Thr		
385	390	395
Ser Gly Ser Val Asn Asp Pro Asn Trp Asn Gly Arg Ala Asp Pro Ala		
405	410	415
Phe Ser Pro Asp Gly Thr Lys Ile Val Phe Trp Gln Ser Leu Val Ile		
420	425	430
Pro Pro Ala Cys Gly Asp Pro Asn Pro Leu Pro Cys Pro Val Ser Thr		
435	440	445
Ala Pro Gly Gly Arg Thr Tyr Arg Val Ile Leu Ala His Leu Thr Ser		
450	455	460
Arg Gln Pro Ala Ala Pro Ala Pro Val Tyr Lys Val Pro Asp Met Ile		
465	470	475
Pro Trp Ala Arg Ala Phe Ser Pro Gly Ala Ser Thr Pro Pro Pro Tyr		
485	490	495
Gln Leu Thr Ala Gly Leu Tyr Ser Leu Pro Gly Lys Val His Gly Ile		
500	505	510
Ala Gln Val His Leu Thr Ala Tyr Pro Gly Phe Gly Gly Phe Lys Thr		
515	520	525
Val Ala Val Asn Tyr Thr Asn Tyr Ser Asp Asp Gly Arg His Leu Ile		
530	535	540
His Gly Arg Glu Thr Val Thr Leu Thr Leu Ser Glu Ser Asn Pro Trp		
545	550	555
Trp Asn His Leu Asp Trp Tyr Ser Asp Leu Thr Gln Thr Gly Ala Val		
565	570	575
Gln Ala Thr Lys Arg Thr Gly Pro Gly Gly Phe Gln Leu Ser Ile Asp		
580	585	590
Ala Met Gln Asn Ile Phe Glu Ala Asn Gly Thr Leu Thr Thr Val		
595	600	605
Gly Gly Val Val Tyr Leu Gln Pro Ala Asn Gly Thr		
610	615	620

<210> 31009

<211> 61

<212> PRT

<213> A.fumigatus

<400> 31009

Leu Leu Ser Arg Leu Met Gly His Ser Ser Leu Met Gly Ile His Gly		
1	5	10
Ser Ala Ser Ala Val Ala Ser Leu Gln Gly Lys His Lys Ala Leu Ile		
20	25	30
Pro Gln Gly Ile Thr Leu Met Leu Leu Glu Met Ala Ala Lys Leu Tyr		
35	40	45
Gly Ala Thr Thr Tyr Ser Thr Val Val Met Leu Ser Ser		
50	55	60

<210> 31010

<211> 160

<212> PRT

<213> A.fumigatus

<400> 31010

Arg Val Ser Ile Thr Ile Gly Ile Leu Val Ser Tyr Trp Ile Asn Tyr

11882

```

1           5           10           15
Gly Thr Asn Tyr Ile Gly Gly Ser Arg Cys Ala Pro Asp Ala Pro Phe
20           25           30
Ser Asn Gly Ser Lys Phe Asp Pro Tyr Arg Asp Val Pro Ser Gly Gly
35           40           45
Cys Asp Gly Gln Ser Asp Ala Ser Trp Arg Leu Pro Leu Ala Leu Gln
50           55           60
Ile Leu Pro Ala Met Ile Leu Gly Leu Gly Met Leu Phe Phe Pro Glu
65           70           75           80
Thr Pro Arg Trp Leu Met Met Lys Glu Arg Tyr Asp Asp Ala Leu Arg
85           90           95
Ser Leu Ser Lys Leu Arg Arg Lys Ala Arg Asp Cys Pro Glu Leu Val
100          105          110
Asn Glu Tyr Leu Glu Ile Lys Ala Ser Ile Leu Leu Glu Asn Thr Phe
115          120          125
Ala Arg Glu His Phe Pro Asn Met Ser Gly Leu Arg Leu His Ala Ala
130          135          140
Gln Val Gly Val Leu Asn Gln Ser Ser Ser Val Ser Glu Gln Phe Tyr
145          150          155          160

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<210> 31011

<211> 91

<212> PRT

<213> A.fumigatus

<400> 31011

```

Thr Ser Leu Leu Ala Thr Gly Val Tyr Gly Ile Val Asn Cys Leu Ser
1           5           10           15
Thr Leu Pro Ala Leu Phe Leu Ile Asp Lys Val Gly Arg Arg Pro Leu
20           25           30
Leu Met Phe Gly Ala Thr Gly Thr Cys Ile Ser Leu Ala Ile Val Gly
35           40           45
Gly Ile Ile Gly Ala Tyr Gly Ser Asp Leu Val Asn His Lys Ser Ala
50           55           60
Gly Trp Ala Gly Ile Ala Phe Ile Tyr Ile Tyr Asp Ile Asn Phe Ser
65           70           75           80
Tyr Ser Phe Gly Leu Cys Pro Arg Leu Val Met
85           90

```

<210> 31012

<211> 224

<212> PRT

<213> A.fumigatus

<400> 31012

```

Asn Lys Ile Ser Thr Leu Glu Val Ile Asp Cys Thr Ala Arg Met Ile
1           5           10           15
Gly Arg Thr Met Asp Asn Thr Pro Arg Gly Gly Phe Ser Leu Ile Tyr
20           25           30
Gln Asn Pro Tyr Leu Leu Gly Val Ala Ser Val Ser Pro Leu Ser Ile
35           40           45
Gly Lys Gly Gly Gln Ser Tyr Pro Asp Tyr Tyr Leu Gln Phe Ser Thr
50           55           60
Leu Gly Gly Leu Leu Phe Gly Tyr Asp Gln Gly Val Ile Ser Gly Val
65           70           75           80
Ile Thr Met Glu Ser Phe Gly Ala Arg Phe Pro His Ile Tyr Thr Asp

```


11883

				85					90					95					
Ser	Ser	Phe	Lys	Gly	Trp	Phe	Val	Ser	Thr	Leu	Leu	Leu	Gly	Thr	Val				
			100					105					110						
Asn	Val	Leu	Ile	Phe	Pro	Ser	Lys	Asn	Asn	Thr	Asp	Ala	Leu	Leu	Ala				
		115					120					125							
Ala	Trp	Phe	Gly	Ser	Leu	Ile	Asn	Gly	Pro	Ile	Ala	Asp	Arg	Leu	Gly				
	130					135					140								
Arg	Lys	Leu	Ser	Ile	Asn	Leu	Ala	Val	Val	Val	Phe	Val	Ile	Gly	Ser				
145					150					155					160				
Ala	Ile	Gln	Cys	Gly	Ala	Val	Thr	Ile	Pro	Met	Leu	Phe	Ala	Gly	Met				
			165						170					175					
Phe	His	His	Leu	Gln	Asp	Thr	Ser	Arg	Tyr	Leu	Ile	Ala	Cys	Arg	Glu				
		180						185					190						
Ser	Tyr	Arg	Arg	Ser	Gly	Gly	Trp	Ser	Val	Asp	His	Gly	Gly	Ala	Phe				
	195						200					205							
Val	His	Leu	Arg	Gly	Met	His	Pro	His	Leu	Thr	Glu	Glu	Gly	Glu	Glu				
	210					215					220								

<210> 31013

<211> 90

<212> PRT

<213> A.fumigatus

<400> 31013

Arg	Thr	Tyr	Gly	Asn	Ala	Trp	Ile	Leu	Ser	Arg	Val	His	Gln	Ser	Thr				
1				5					10				15						
Gln	Ser	Glu	Thr	Leu	Ile	Cys	Gly	Thr	Pro	Asp	His	Val	Lys	Ser	Ile				
		20					25					30							
Gly	Ala	Ser	Glu	Leu	Phe	Lys	Val	Asn	Thr	Arg	Leu	Lys	Ser	Met	Thr				
	35					40					45								
Gln	Asn	Trp	Phe	Val	Thr	Ser	Ala	Leu	Leu	His	Phe	Met	Asp	Ile	Glu				
	50					55				60									
Asn	Cys	Leu	Ser	Pro	Cys	Ser	Leu	Thr	Gly	Ile	Glu	Phe	Ala	Gly	Arg				
65				70					75						80				
Leu	Met	Asn	Ser	Pro	Ser	Thr	Ser	Arg	Gln										
				85					90										

<210> 31014

<211> 66

<212> PRT

<213> A.fumigatus

<400> 31014

Gln	Leu	Phe	Gln	Thr	Arg	Trp	Leu	Lys	Val	Asn	Val	Gln	Ile	Asp	Tyr				
1				5					10				15						
Leu	Pro	Phe	Ala	Gly	Arg	Leu	Leu	His	Thr	Phe	Thr	Cys	Glu	Lys	Ser				
		20					25					30							
Asp	Thr	Thr	Ser	Asn	Leu	Pro	Asp	Pro	Ala	Thr	Ala	Val	His	Leu	Ala				
	35					40					45								
Ser	Val	Lys	Leu	Ala	Arg	Leu	Val	Gln	Asp	Pro	Ala	Lys	Gln	Leu	Glu				
	50					55					60								
Ser	Glu																		
65																			

<210> 31015

<211> 106

<212> PRT

<213> A.fumigatus

<400> 31015

Gly Ser Thr Asp Ala Pro Leu Phe Cys Val Arg Gly Ala Ser Ser Ala
 1 5 10 15
 Thr Ser Tyr Arg Val Ser Leu Leu Gly Ile Ser Phe Ser Trp Thr Met
 20 25 30
 Thr Asn Ser Cys Arg Leu Glu Asn Ile Glu Gly Asp Trp His Glu Phe
 35 40 45
 Glu Ser Lys Ala Leu Arg Lys Glu Lys Asp Lys Glu Ala Arg Arg Ala
 50 55 60
 Glu Tyr Gln Lys Asp Lys Glu Lys Arg Lys Ala Ala Leu Ser Ala Pro
 65 70 75 80
 Gln Ser Glu Arg Glu Thr Lys Arg Val Arg Gln Asp Val Glu Glu Asn
 85 90 95
 Leu Gln Pro Ser Ala Gln Pro Val Glu Gln
 100 105

<210> 31016

<211> 134

<212> PRT

<213> A.fumigatus

<400> 31016

Tyr Arg Pro Pro Glu Leu Leu Leu Gly Glu Thr Arg Tyr Gly Pro Ala
 1 5 10 15
 Val Asp Val Trp Ser Ala Gly Cys Val Phe Val Glu Leu Phe Thr Lys
 20 25 30
 Lys Ala Val Phe Pro Gly Glu Gly Glu Ile Ser Gln Leu Glu Lys
 35 40 45
 Leu Tyr Ala Ser Leu Gly Thr Pro Thr Arg Ala Glu Trp Pro Asp Leu
 50 55 60
 Val Glu Met Pro Trp Phe Glu Leu Met Arg Pro Thr Glu Arg Lys Lys
 65 70 75 80
 Arg Val Phe Glu Asp Ile Tyr Arg Glu Val Leu Ser Pro Ala Ala Leu
 85 90 95
 Asp Leu Val Ser Gln Ile Phe Arg Tyr Asp Pro Thr Lys Arg Pro Ser
 100 105 110
 Ala Glu Glu Val Leu Thr His Pro Tyr Phe Val Ser Glu Glu Pro Ala
 115 120 125
 Pro Gln Gln Ala Ile Glu
 130

<210> 31017

<211> 118

<212> PRT

<213> A.fumigatus

<400> 31017

Trp Glu Glu Tyr Pro Tyr Ser Ile Val Ala Gln Pro Leu Leu Lys Lys
 1 5 10 15
 Cys Ser Thr Pro His Lys Ser Leu Ile Tyr Thr Met Ser Phe Ser Asn
 20 25 30
 Leu Val Ser Asp Leu Ala Phe Arg Asp Ala Tyr Asp Asp Arg Ser Ser
 35 40 45

11885

Gln Ile Ser His Ser Arg Ser Gln Ala Thr Ala Arg Ser Tyr Thr Ser
 50 55 60
 Thr Ala Ala Thr Ser Val Ser Ile Ser Gly Asp Ile Ser Ser Gln Leu
 65 70 75 80
 His Ala Gly Tyr Ser His Pro Leu Thr Arg Ser Trp Gln Ala Glu Arg
 85 90 95
 Gln Leu Thr Lys Val Arg Gly Val Arg Val Val Ser Gln Ile Ile His
 100 105 110
 Ala Leu Lys Thr Thr Thr
 115

<210> 31018
 <211> 309
 <212> PRT
 <213> A.fumigatus

<400> 31018
 Leu Gly Ser Phe Leu Ile Ser Met Gln Glu Met Leu Ile Tyr Pro Leu
 1 5 10 15
 Phe Ile Thr Asp Asn Pro Asp Glu Glu Thr Pro Ile Pro Ser Leu Pro
 20 25 30
 Asn Gln His Arg Arg Cys Leu Asn Arg Leu Val Pro Phe Leu Arg Pro
 35 40 45
 Leu Val Gln Lys Gly Leu Arg Ser Val Ile Leu Phe Gly Val Pro Leu
 50 55 60
 His Pro Thr Ala Lys Asp Ala Leu Gly Thr Ala Ala Asp Asp Pro Ser
 65 70 75 80
 Gly Pro Val Ile Gln Ala Ile Arg Leu Leu Arg Ser Arg Phe Pro Asn
 85 90 95
 Leu Tyr Ile Val Thr Asp Val Cys Leu Cys Glu Tyr Thr Ser His Gly
 100 105 110
 His Cys Gly Ile Leu Arg Glu Asp Gly Thr Leu Asp Asn Ala Gln Ser
 115 120 125
 Val Asp Arg Ile Ser Asp Val Ala Leu Ala Tyr Ala Thr Ala Gly Ala
 130 135 140
 His Cys Val Ala Pro Ser Asp Met Asn Asp Gly Arg Val Arg Ala Ile
 145 150 155 160
 Lys Leu Lys Leu Ile Glu Ala Gly Leu Ala His Arg Val Leu Leu Met
 165 170 175
 Ser Tyr Ser Ala Lys Phe Ser Gly Cys Leu Tyr Gly Pro Phe Arg Asp
 180 185 190
 Ala Ala Gly Ser Cys Pro Ser Phe Gly Asp Arg Arg Cys Tyr Gln Leu
 195 200 205
 Pro Pro Gly Gly Arg Gly Leu Ala Arg Arg Ala Ile Gln Arg Asp Val
 210 215 220
 Gly Glu Gly Ala Asp Ile Ile Met Val Lys Pro Ala Ser Ser Tyr Leu
 225 230 235 240
 Asp Ile Ile Arg Asp Ala Lys Glu Leu Ala Lys Asp Met Pro Ile Ala
 245 250 255
 Ala Tyr Gln Val Ser Gly Glu Tyr Ala Met Ile His Ala Ala Ala Lys
 260 265 270
 Ala Gly Val Phe Asp Leu Lys Ser Met Val Phe Glu Ser Thr Glu Gly
 275 280 285
 Ile Leu Arg Ala Gly Ala Gly Ile Ile Val Ser Tyr Phe Val Pro Glu
 290 295 300
 Phe Leu Asp Trp Leu

305

<210> 31019

<211> 230

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (99)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31019

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Thr Gly Thr Ala Pro Arg His Arg Val Gly Met Phe Leu Gly Met Ser
1          5          10          15
Ile Gln Leu Ser His Arg Thr Val Ser Glu Glu Ser Glu Lys Asp Lys
20          25          30
Leu Ile Arg Gly Glu Leu Tyr Arg Pro Phe Asp Ile His Leu Val Glu
35          40          45
Glu Arg Glu Arg Cys Lys Ala Ala Ile Trp Arg Phe Asn Asn Ala Cys
50          55          60
Asn Pro Val Ser Gly Leu Ser Ala Lys Glu Gln Asn Arg Leu Leu Lys
65          70          75          80
Glu Val Leu Ile Pro Pro Gly Ser Val Val Val Ser Pro Ser Ser Val
85          90          95
Gly Pro Xaa Arg Pro Ala Gly Phe Ile Gly Gln Gly Ala Val Val Glu
100          105          110
Ser Pro Phe Gln Cys His Tyr Gly Phe Asn Ile His Ile Gly Glu Asp
115          120          125
Val Met Ile Ser Glu Asn Cys Leu Phe Val Asp Asp Cys Pro Ile Thr
130          135          140
Ile Gly Ala His Thr Trp Ile Gly Pro Arg Val Thr Ile Leu Ser Ser
145          150          155          160
Met Ala His Ala Asn Met Gln Glu Arg Lys Gly Ser Gln Ser Arg Tyr
165          170          175
Gln Gly Arg Pro Val Thr Ile Glu Glu Asp Cys Tyr Val Gly Ala Gly
180          185          190
Cys Thr Ile Tyr Pro Gly Val Arg Leu Arg Arg Gly Ala Tyr Val Ala
195          200          205
Pro Gly Glu Val Val Lys Ser Asp Ile Val Ala Tyr Gly Phe Gln Gly
210          215          220
Leu Lys Pro Ser Tyr Met
225          230

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<210> 31020

<211> 61

<212> PRT

<213> A.fumigatus

<400> 31020

```

Met Arg Asp Leu Trp Gly Val Glu His Phe Leu Arg Ser Gly Cys Ala
1          5          10          15
Thr Met Glu Tyr Gly Tyr Ser Ser His Gln Ser Leu Pro Leu Gly Thr
20          25          30
His His Ile Leu Pro Asn Asp Ile Trp Leu Cys Lys Cys Ala Leu Cys
35          40          45

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11887

Ile Met Asn Tyr Lys Leu Leu Tyr Gln Tyr Arg Val Ser
50 55 60

<210> 31021
<211> 78
<212> PRT
<213> A.fumigatus

<400> 31021
Thr Ser Ser Ser Arg Ser Pro Ile Ala Leu Ala Asp Cys His Tyr His
1 5 10 15
Tyr Tyr Tyr Leu Ser Asn Ile Leu His Ser Val Gly Val Thr Asn Lys
20 25 30
Pro Thr Leu Ser Asp Thr Lys Arg Val Pro Lys Arg Gly Phe Thr Phe
35 40 45
Val Leu Tyr Phe Ser Leu Ser Ser Ile Leu Ile Ile Cys Gln Leu Ile
50 55 60
Asp Leu Ser Thr Phe Gln Leu Leu Arg Pro Pro Phe Asp Arg
65 70 75

<210> 31022
<211> 73
<212> PRT
<213> A.fumigatus

<400> 31022
Glu Tyr Ser His Tyr Tyr Ser Ser Tyr Ser Ser Leu Ser Cys Ser Ser
1 5 10 15
Thr Ile Leu Thr Lys Ser Gly Ala Thr Ser Pro Thr Ser Thr Ile Lys
20 25 30
Arg Gly Ala Val His Thr Val Leu Val Ala Leu Gln Val Leu Ala Leu
35 40 45
Ile Leu Ser Asn Ser Asn Ile Leu Leu Val Pro Val Pro Phe Leu Ala
50 55 60
Phe Phe Phe Lys Ile Phe Leu Leu Ile
65 70

<210> 31023
<211> 104
<212> PRT
<213> A.fumigatus

<400> 31023
Lys Pro Asn Pro Cys Ser Glu Ser Ser Ala Leu Tyr Ile Ile Val Ala
1 5 10 15
Asp Thr Thr Met Ala Tyr Cys Tyr Leu Val Ser Pro Gln Ser Leu Val
20 25 30
Ala Met Val Pro Tyr Ile Gln Leu Ser Trp His Tyr Cys Leu Ser Ala
35 40 45
Gly Leu Leu Ile Thr Tyr Thr Ser Phe Thr Leu Arg Arg Gly Ala Ile
50 55 60
Phe Ser Phe Ser Leu Asp His Leu Val Tyr Ser Asn Ser Ile Ile Asp
65 70 75 80
Pro Val Lys Ala Leu Phe Phe Phe Phe Phe Phe Trp Gln Pro His
85 90 95
Phe Val Cys Thr Pro Cys Trp Asp

100

<210> 31024
 <211> 145
 <212> PRT
 <213> A.fumigatus

<400> 31024
 Thr Arg Ser Phe Pro Pro Leu Lys Leu Phe Phe Leu Lys Ala Glu Gln
 1 5 10 15
 Arg His His Trp Arg Pro Ala Thr Thr Tyr Ser Ser Arg Ala Gly Leu
 20 25 30
 Ala Ser Gln Gln Pro Gln Ile Ser Arg Cys Arg Leu Ser Pro Ser Gly
 35 40 45
 Phe Ser Ser Cys Ser Pro Pro Asp His Leu Pro His His Pro Ser Thr
 50 55 60
 Ser Asn Ser Thr Trp Thr Ser Ser Leu Leu Pro Ser Thr Pro Arg Ser
 65 70 75 80
 Thr Pro Pro Met Thr Arg Glu Pro Ile Leu Ser Thr Glu Asn Gly Ala
 85 90 95
 Gly Asn Ser Gly Leu Ser Ser Ala Cys Trp Thr Gly Pro Pro Pro Ala
 100 105 110
 Ser Thr Thr Pro Ala Ala Thr Ser Ser Gly Gln Arg Cys Thr Ala Ala
 115 120 125
 His Leu Pro Arg Ser Leu Ala Ser Gln Thr Thr Gly Ala Thr Pro Leu
 130 135 140
 Pro
 145

<210> 31025
 <211> 440
 <212> PRT
 <213> A.fumigatus

<400> 31025
 Ile Ser Ala Ser Ala Ser Leu Thr Ser Phe Ile Asp Val His Gln Leu
 1 5 10 15
 Val Arg Asp Val Glu Glu Val Gln His Leu Arg Gln Gly Leu Asp Leu
 20 25 30
 Ser Ser Ser Ser Ala Leu Leu Gly His Leu Asp Ile Lys Val Ser Met
 35 40 45
 Ile Leu Ala Cys Ala Ser Leu Ala Ala Val Asp Leu Asp Pro Gly Lys
 50 55 60
 Ala Gln Glu Leu Gly Leu Ala Asn Thr Asp Ile Asp Ala Leu Val Arg
 65 70 75 80
 Asp Leu Trp Lys Gly Ser Arg Thr Leu Ile Ser Arg Ser Asp Leu Asp
 85 90 95
 Pro Leu Leu Pro Thr Ser Lys Ala Val Leu Ser Glu Gly Arg Ala Ala
 100 105 110
 Pro Ser Leu Glu Ala Ser Asn Asp Leu Leu Gln Gln Ser Gly Ala Arg
 115 120 125
 Ile Ala Ala Ala Thr Asp Ile Gln Val Gln Val Val Ser Ile Arg Ile
 130 135 140
 Leu Leu Leu Leu Ala Ala Arg Ser Phe Ala Ala Pro Ser Glu Tyr Leu
 145 150 155 160
 Lys Leu His Leu Asp Val Ile Ser Ser Ala Ile Asp Ala Ser Leu Asp

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                165                170                175
Ser Pro Tyr Asp Glu Gly Thr His Leu Ile Asp Arg Glu Trp Arg Trp
                180                185                190
Gln Leu Trp Ser Phe Ile Cys Leu Leu Asp Trp Thr Ser Pro Gly Ile
                195                200                205
Tyr His Thr Ser Ser Tyr Phe Ile Arg Pro Glu Met His Arg Gly Pro
                210                215                220
Pro Ser Lys Val Pro Gly Leu Pro Asp His Gly Ser Tyr Pro Ser Ala
225                230                235                240
Ile Glu Lys Val His Trp Asp Arg Leu Ser Gln Thr Arg His Tyr Leu
                245                250                255
Glu Tyr Ala Leu Ala Leu Ala His Leu Ser Arg Arg Ala Glu Asp Cys
                260                265                270
Ile Val Arg Pro Gly Pro Val Ser Pro Ala Gln Ala Ala Glu Leu Cys
                275                280                285
Thr Glu Leu Asp Ala Leu Asp Asn Lys Leu Ser Phe Tyr Gln Leu Leu
290                295                300
Gly Ser Thr Ala Pro Asp Gly Gly Thr Phe Ser Thr Gly Gly Arg Pro
305                310                315                320
Val Asp Ala Thr Ser Ile Thr Gly Asp Leu Ala Thr Asp Lys Ala Ser
                325                330                335
Thr Glu His Arg Arg Phe Leu Ala Arg Ala Pro Val Ile Gln Ser Met
                340                345                350
His Leu Ser Leu Glu Leu Gly Leu Ile Arg Phe Lys Leu Phe Arg His
                355                360                365
Glu Val Phe His Leu Met Gln Ala Pro Ser Thr Ser Gly Thr Leu Arg
370                375                380
Met Ile Cys Met Asp Ala Cys Met Asp Ala Cys Ile Leu Val Leu Ala
385                390                395                400
Gln Cys Trp Ser Ile Gly Asn Arg Asp Val Pro Gly Val Gln Ala Gln
                405                410                415
Ala Gln Ala Gln Ser Gln Met Ser Leu Asp Pro Ser Glu Glu Val Phe
                420                425                430
Thr Thr Gly Met Glu Gly Ser Ala
435                440

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<210> 31026

<211> 87

<212> PRT

<213> A.fumigatus

<400> 31026

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Ala Gln Leu Arg Val His Gly Pro His Ala Ser Val Tyr Thr Thr Phe
1                5                10                15
Asn Tyr Ser His Pro Leu Ala Ser Asn Thr Gly Val Thr Thr Phe Phe
                20                25                30
Asp Ile Ser Glu Ala Leu Phe Pro Gln Phe Cys Thr Lys Phe Asn
35                40                45
Ile Ile Gln Ser Ile Gly Val Asn Tyr Ile Leu Ala Asp Glu Ala Tyr
50                55                60
Glu Arg Gln His Leu Gln Pro Ile Leu Ala Ala Ser Leu Thr Ile Gly
65                70                75                80
Met Gln Ile Cys Ile Ala Pro
                85

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<210> 31027

<211> 118
 <212> PRT
 <213> A.fumigatus

<400> 31027

Gln Ala His Tyr Pro Leu His Val Met Arg Gly Lys Asn Thr Gly Lys
 1 5 10 15
 Gln Arg Arg Ser Ile Lys Lys Gln Gln Thr Val Ala Glu Leu Lys His
 20 25 30
 Leu Phe Asp Ala Pro Gly Arg Gly Ser Val Met Pro Arg Gln Val Leu
 35 40 45
 Trp Gly Asp Leu Cys Leu Thr Ala Phe Pro His Glu Leu Asn Ser Glu
 50 55 60
 Ser Thr Ala Pro Met His Arg Tyr Ile Leu Leu Ser Ile Ile Arg Ile
 65 70 75 80
 Pro Leu Pro Leu Thr Leu Glu Ser Gln Arg Ser Leu Thr Leu Val Lys
 85 90 95
 Arg Cys Phe Arg Arg Ser Ser Val Leu Ser Ser Thr Leu Tyr Ser Arg
 100 105 110
 Leu Gly Ser Thr Thr Phe
 115

<210> 31028
 <211> 96
 <212> PRT
 <213> A.fumigatus

<400> 31028

Ser Trp Gly Asp Ser Ala Gly Gly Val Tyr Ser Leu Asn Gly Pro Pro
 1 5 10 15
 Ser Ile Met Ala Ala Asn Cys Thr Ile Thr Arg Thr Phe Pro Phe Pro
 20 25 30
 Glu Trp Arg Leu Pro Pro Ala Leu Phe Gly Gly Ile Ala Phe Thr Met
 35 40 45
 Gly Trp Phe Trp Tyr Gly Trp Thr Gly Trp Thr Arg Ser Ile His Trp
 50 55 60
 Met Ala Pro Thr Ala Ser Gly Val Phe Thr Gly Phe Gly Ile Tyr Val
 65 70 75 80
 Ile Phe Leu Gln Cys Phe Asn Tyr Leu Ile Asp Ser Tyr Leu Gln Leu
 85 90 95

<210> 31029
 <211> 82
 <212> PRT
 <213> A.fumigatus

<400> 31029

Cys Val Pro Ser Ala Ala Ser Val Phe Ala Ala Asn Thr Ile Leu Arg
 1 5 10 15
 Ser Ala Val Gly Ala Gly Phe Pro Leu Phe Ser Arg Gln Leu Phe Thr
 20 25 30
 Asn Leu Gly Val Gln Trp Ala Gly Thr Leu Leu Gly Cys Leu Ala Leu
 35 40 45
 Ile Met Ile Pro Ile Pro Leu Ala Phe Ile Lys Phe Gly Pro Arg Leu
 50 55 60
 Arg Arg Arg Ser Arg Phe Ala Pro Ser Pro Val Val Phe Glu Glu Lys

65
Ser Gly

70

75

80

<210> 31030
<211> 144
<212> PRT
<213> A.fumigatus

<400> 31030
Ser Phe Gly Ser His Asp Thr Phe Phe Val Ala Pro Leu Phe Ser Gly
1 5 10 15
Ala Asp Asp Thr Phe Ser Asp Thr Glu Arg Ser Ala Tyr Thr Gln Lys
20 25 30
Val Asp Phe Ala Lys Leu Arg Ser Glu Leu Leu Asn Ala Asp Ser Thr
35 40 45
Glu Ala Gln Leu Thr Arg Ser Ser His Glu Lys Ile Ala Ala Asp Leu
50 55 60
Ala Lys Leu Asn Ser Arg Leu Arg Asp Glu Ile Gly Arg Thr Gln Ala
65 70 75 80
Ser Val Arg Leu Asp Leu Asn Leu Glu Lys Gly Arg Ile Arg Glu Glu
85 90 95
Ala Asn Gly Gln Glu Met Arg Ile Lys Glu Thr Glu Thr Arg Ile Glu
100 105 110
Gln Glu Val Ala Gly Leu Arg Glu Arg Val Glu Ala Val Lys Phe Ser
115 120 125
Thr Leu Gln Trp Leu Met Tyr Gly Ser Phe Ala Thr Phe Ala Gln Ile
130 135 140

<210> 31031
<211> 640
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (40)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31031
Ile Phe Pro Asn Lys Ala Arg Gly Ser Pro Leu Met Gly Ile Leu Thr
1 5 10 15
Lys Gln Gly Gly Pro Gly Phe Leu Gly Ala Asn Leu Arg Gln Gln Tyr
20 25 30
Thr Ser Asn Pro Ser Gly His Xaa Gly Gly Ile Pro Gly Ala Ile Arg
35 40 45
Cys Tyr Ala Phe Pro Phe Ser Glu His Ser Ile Ala Leu Gln Ile Gly
50 55 60
Leu Pro Leu Gln Ser Gln Pro Lys Leu Asn Lys Glu Thr Arg Leu Ala
65 70 75 80
Glu Leu Leu Phe Ser Lys Glu His Val Gly Cys Leu Ala Gln Ile Ile
85 90 95
Gly Gln Asp Tyr Thr Ser Tyr Gln Ala Gln Ala Ser Ile Glu Leu Ala
100 105 110
Ala Ser Leu Ile Gly Lys Leu Cys Thr Glu Glu Ala His Lys Thr Val
115 120 125

Leu	Ala	Asp	Ser	Gly	Val	Leu	Asp	Ala	Leu	Ala	Val	Lys	Val	Ala	Ser
130						135					140				
Phe	Val	Val	Ala	Gln	Gly	Phe	Val	Leu	Pro	Gly	Ala	Glu	Glu	His	Val
145					150					155					160
Gln	Glu	Pro	Gly	Ala	Leu	Gly	Ser	Leu	Pro	Pro	Pro	Ala	Pro	Pro	Ser
				165					170						175
Ala	Lys	Leu	Ala	Pro	Ile	Leu	Arg	Ala	Val	Thr	Val	Ile	Ile	Glu	His
				180				185					190		
Ser	Lys	Trp	Arg	Ala	Glu	His	Phe	Leu	Ser	Ser	Pro	Gly	Ile	Val	Thr
				195			200					205			
Val	Phe	Pro	Arg	Gln	Leu	Pro	Glu	Phe	Ala	Pro	Ser	Asp	Ile	Lys	Lys
					210		215				220				
Gly	Pro	Trp	Gly	Ser	Thr	Tyr	Phe	Ser	Gly	Ser	Ala	Val	Pro	Arg	His
225					230					235					240
Ala	Gly	Ile	Ser	Pro	Leu	Glu	Ser	Leu	Leu	Pro	Ser	Val	Pro	Leu	Ser
				245					250						255
Thr	Pro	Thr	Ala	Pro	Ala	Asn	Ala	Ser	Asn	Phe	Pro	Pro	Leu	Gly	His
				260				265						270	
Gln	Gly	Ala	Arg	Arg	Arg	Pro	Ser	His	Ser	Phe	Pro	Thr	Ser	Phe	Ser
				275			280					285			
Leu	Phe	Glu	Ser	Thr	Ser	Ser	Asp	Asp	Asp	Glu	Asn	Cys	Ile	Val	Pro
				290		295				300					
Trp	Leu	Leu	Asn	Met	Val	Arg	Ala	Glu	Asn	Gly	Met	Val	Arg	Leu	Met
305					310					315					320
Ala	Ala	Arg	Leu	Ile	Thr	Val	Leu	Phe	Arg	Leu	Gly	Leu	Ala	Lys	Lys
				325					330						335
His	Arg	Val	Ser	Leu	Leu	Ser	Tyr	Leu	Leu	Ile	Pro	Ile	Leu	Ile	Arg
				340				345					350		
Met	Leu	Asp	Lys	Asp	Tyr	Glu	Ile	Pro	Gly	Asp	Asn	Ser	Val	Glu	Tyr
		355					360				365				
Gly	Gly	Leu	Ile	Pro	Ala	Thr	Thr	His	Val	Lys	Glu	Glu	Ala	Pro	Ala
		370				375					380				
Val	Leu	Ala	Thr	Leu	Val	Ile	Asp	Asp	Gln	Glu	Leu	Gln	Lys	His	Ala
385					390					395					400
Val	Asp	Gly	Gly	Ala	Ile	Lys	Arg	Leu	Ser	Gln	Leu	Leu	Lys	Glu	Thr
				405					410					415	
Tyr	Asn	Pro	Ile	His	Glu	Asn	Thr	Lys	Pro	Met	Trp	His	Pro	Asp	Ala
				420				425					430		
Asp	Glu	Ser	Ala	Pro	Asn	Ser	Asp	Thr	Gln	Pro	Leu	Glu	Cys	Arg	Leu
				435			440					445			
Gly	Pro	Pro	Gly	Phe	Ser	Pro	Thr	His	Cys	His	Val	Met	Arg	Tyr	Arg
		450				455					460				
Glu	Asn	Ile	Leu	Lys	Ala	Leu	Ala	Ala	Leu	Val	Pro	Phe	Lys	Asp	Glu
465					470					475					480
Tyr	Arg	Lys	Leu	Val	Cys	Glu	Asn	Gly	Val	Val	Pro	Tyr	Ile	Ile	Asp
				485					490					495	
Ser	Leu	Lys	Pro	Cys	Pro	Asp	Glu	Leu	Pro	Val	Asp	Pro	Ser	Thr	Pro
				500				505					510		
Lys	Asn	Thr	Ala	Thr	Asp	Gly	Asn	Pro	Thr	Pro	Thr	Leu	Leu	Ala	Ala
				515			520					525			
Cys	Gly	Ala	Ala	Arg	Met	Leu	Thr	Arg	Ser	Val	Ser	Val	Leu	Arg	Thr
		530				535					540				
Ser	Leu	Ile	Asp	Ala	Gly	Val	Ala	Ala	Pro	Leu	Phe	Val	Leu	Ile	Arg
545					550					555					560
His	Pro	Asp	Ile	Glu	Val	Gln	Ile	Ala	Ala	Thr	Ser	Val	Ile	Cys	Asn
				565					570						575

11893

Leu Ala Leu Asp Phe Ser Pro Met Lys Glu Val Ser Pro Tyr Pro Leu
 580 585 590
 Lys Asp Val Ile Asp Phe Asp Leu Gln Leu Thr Gln Val Gly Asn Tyr
 595 600 605
 Leu Ser Gly Tyr Ser Pro Gly Pro Met Arg Ala Arg Ala Leu Ala Glu
 610 615 620
 His Lys Thr Ser Tyr Arg Val Val Val Gly Thr Glu Thr Cys Val Leu
 625 630 635 640

<210> 31032

<211> 118

<212> PRT

<213> A.fumigatus

<400> 31032

Val Phe Lys Val Glu Thr Tyr Ile Ser Tyr Pro Lys Asp Asn Arg Ser
 1 5 10 15
 Pro Glu Lys Ala Val Val Ile Leu Ser Asp Ile Phe Gly Ile Tyr Ile
 20 25 30
 Asn Ala Gln Leu Leu Ala Asp Glu Phe Ala Ser Asn Gly Tyr Leu Ala
 35 40 45
 Val Ile Pro Asp Leu Phe His Lys Asp Ala Ile Lys Leu Ser Asp Met
 50 55 60
 Glu Ser Gly Lys Ala Asp Leu Pro Ala Trp Leu Pro Lys His Gln Thr
 65 70 75 80
 Pro Thr Val Asp Pro Val Val Glu Ser Thr Ile Lys Tyr Leu Arg Gln
 85 90 95
 Asp Leu Gly Val Lys Arg Ile Ala Gly Val Gly Tyr Cys Phe Gly Gly
 100 105 110
 Lys Val Ser Ser Met Leu
 115

<210> 31033

<211> 122

<212> PRT

<213> A.fumigatus

<400> 31033

Ser Pro Val Arg Ser Thr Ser Val Thr Gln Leu Ile Pro Pro Leu Ser
 1 5 10 15
 Pro Arg Arg Ser Ser Leu Pro Ser Leu Val Leu Phe Leu Ser Leu Pro
 20 25 30
 Pro Val Ser Trp Ser Ala Arg Met Cys Trp Val Asn Ile Lys Ile Met
 35 40 45
 Thr His Ile Glu Asn Leu Leu Glu Ile Asp Asn Ile Phe Thr Thr Gln
 50 55 60
 Leu Arg His Glu Ser Glu Asp Ile Leu Ile Lys Thr Gly Gln Pro Trp
 65 70 75 80
 Gln Ile Asn Leu Phe Ser Gly Val Thr His Gly Phe Ala Val Arg Ala
 85 90 95
 Asp Leu Ser Asn Lys His Phe Lys Phe Cys Lys Glu Gln Ala Phe Tyr
 100 105 110
 Gln Ala Val Ala Trp Leu Gln Gln Tyr Leu
 115 120

<210> 31034

<211> 138
 <212> PRT
 <213> A.fumigatus

<400> 31034

Gln	Leu	Glu	Val	Gly	Met	Pro	Glu	Ala	Arg	Ser	Ser	Pro	Thr	Trp	Cys
1				5					10					15	
Arg	Pro	Arg	Lys	Ile	Gly	Leu	His	Ser	Leu	Ser	Pro	Trp	Ser	Ser	Phe
			20					25				30			
Ala	Arg	Leu	Arg	His	Ser	Thr	Gly	Leu	Ile	Ser	Thr	Gly	Asn	Val	Cys
		35					40					45			
Ala	Leu	Thr	Ala	Arg	Tyr	Arg	Ile	Gly	Leu	Thr	Thr	Ala	Leu	Ile	Asp
		50				55					60				
Pro	Val	Ala	Asp	Asp	Arg	Gly	Gly	Arg	Ala	Glu	Asp	Phe	Ala	Asn	Tyr
65					70				75					80	
Val	Thr	Phe	Val	Lys	Glu	Leu	Arg	Ser	Ala	Ala	Gly	Arg	Leu	Gly	Ile
				85					90					95	
Ser	Leu	Thr	Leu	Pro	Ser	Ser	Tyr	Trp	Tyr	Leu	Lys	Gly	Phe	Asp	Val
			100					105					110		
Val	Asn	Leu	Glu	Pro	Tyr	Val	Asp	Trp	Phe	Asn	Phe	Met	Ser	Tyr	Asp
		115					120					125			
Ile	His	Gly	Thr	Trp	Asp	Gly	Asn	Asn	Ala						
		130				135									

<210> 31035
 <211> 254
 <212> PRT
 <213> A.fumigatus

<400> 31035

Arg	Ser	Ser	Arg	Tyr	Thr	Lys	Gln	Val	Val	Asn	Pro	His	Thr	Asn	Leu
1				5					10					15	
Thr	Glu	Ile	Ser	Gln	Gly	Leu	Asp	Leu	Leu	Trp	Arg	Asn	Asn	Ile	Pro
			20					25				30			
Ser	Lys	Lys	Val	Val	Leu	Gly	Leu	Gly	Phe	Tyr	Gly	Arg	Ser	Phe	Thr
		35				40					45				
Leu	Ser	Asp	Pro	Ser	Cys	Asn	Thr	Pro	Gly	Cys	Pro	Phe	Ala	Ser	Gly
		50				55					60				
Ala	Asn	Pro	Gly	Glu	Cys	Thr	Gly	Gln	Ala	Gly	Ile	Leu	Ser	Asn	Ala
65					70				75					80	
Glu	Ile	Asn	Arg	Val	Ile	Arg	Thr	His	Asp	Leu	Thr	Pro	Val	Met	Asp
			85					90						95	
Lys	Ala	Ala	Gly	Val	Lys	Tyr	Ile	Thr	Trp	Asp	Asn	Asn	Gln	Trp	Val
			100					105					110		
Ser	Tyr	Asp	Asp	Ala	Asp	Thr	Leu	Lys	Ile	Lys	Met	Asp	Phe	Ala	Asn
		115				120						125			
Lys	Leu	Gly	Leu	Gly	Gly	Thr	Ser	Arg	Leu	Pro	Arg	Ser	Ile	Phe	Thr
		130				135					140				
Ala	Glu	Asp	Arg	Thr	Val	Ser	Asp	Ser	His	Val	Val	Val	Trp	Ala	Leu
145					150					155					160
Asp	Leu	Asp	Asn	Ala	Asp	Ser	Gln	Ser	Ala	Gln	Tyr	Leu	Asn	Ser	Gly
			165					170						175	
Gly	Asn	Met	Thr	Asn	Thr	Asn	Gly	Phe	Ser	Ile	Ala	Lys	Lys	Ala	Ala
			180					185					190		
Asp	Thr	Gln	Gln	Ala	Val	Ala	Ala	Lys	Leu	Ala	Phe	Trp	Thr	Pro	Cys
		195				200						205			

11895

Met Thr Glu Lys Glu Arg Lys Val Leu Gly Cys Pro Gly Gly Arg Cys
 210 215 220
 Leu Ser Ser Pro Cys Gly Phe Thr Asp Ser Ala Lys Phe Ser Cys Pro
 225 230 235 240
 Arg Arg Val Pro Arg Ala Ala Ser Arg Ala Trp Lys Gly Val
 245 250

<210> 31036

<211> 110

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (91)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31036

Ser Lys Ile Cys Asp Gln Arg Cys Pro Lys Gly Tyr Ile Tyr Leu Thr
 1 5 10 15
 Gln Asn Thr His Pro Ala Gly Asp Lys Lys Asp Cys Ala His Gly Thr
 20 25 30
 Tyr Ile Ser Val Cys Cys Glu Asp Ile Glu Thr Ile Ala Gln Val Cys
 35 40 45
 Pro Asn Gln Tyr Ser Ser Asp Ile Ile Phe Ser Gly Ser Phe Ser Asn
 50 55 60
 Met Gly Ala Val Asp Ser Ser Phe Ser Leu Lys Ser Ala Thr Ser Lys
 65 70 75 80
 Arg Asn Asn Pro Arg Leu Thr Asn Phe Val Xaa Glu Asn Asp Pro Thr
 85 90 95
 Phe Ser Ser Val Val Arg Phe Arg Ile Leu Phe Pro His Ile
 100 105 110

<210> 31037

<211> 108

<212> PRT

<213> A.fumigatus

<400> 31037

Thr Leu Ile Gln Val Phe Ile Ala Ile Gly Gly Trp Asp Ala Gly Gly
 1 5 10 15
 Lys Val Phe Ser Asp Met Val Ser Thr Ala Glu Asn Arg Ala Thr Phe
 20 25 30
 Ile Lys Ser Val Val Gln Phe Cys Gln Thr Gln Ala Phe Asp Gly Ile
 35 40 45
 Asp Ile Asp Trp Glu Cys Met Cys Pro Tyr Cys Ser Leu Pro Asp Trp
 50 55 60
 Ser His His Ser Ser His Arg Pro Cys Cys Arg Arg Ser Trp Trp Ala
 65 70 75 80
 Ser Gly Arg Phe Cys Gln Leu Arg His Leu Cys Gln Arg Ala Gln Val
 85 90 95
 Arg Gly Trp Thr Ala Trp Asp Leu Ile Asp Ser Ala
 100 105

<210> 31038

<211> 70

<212> PRT

<213> A.fumigatus

<400> 31038

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Ser Leu Val Ala Pro Leu Ala Asp Pro Ser Ser Pro Val Val Lys Thr
1           5           10           15
Ile Arg Ser Ile Gly Leu Ala Thr Ala Leu Leu Ala Leu Ser Asn Ser
          20           25           30
Phe Ala Asn Ala His Gly Ser His Ala Ser Glu Gln Asn Pro Ser Ser
          35           40           45
Asp Trp Ala Thr Arg His Met Gln Gly Ser Ser Leu His Arg Arg His
          50           55           60
Ser Ile Glu Asn His His
65           70

```

<210> 31039

<211> 80

<212> PRT

<213> A.fumigatus

<400> 31039

```

Thr Val Thr Arg Ser Arg Ile Arg Pro Gly His His Gly Asp Ile Glu
1           5           10           15
Tyr Glu Tyr Glu Ile His His Phe Glu Arg Phe His Gly Glu Asp Ala
          20           25           30
Lys Leu Glu Asp Leu Thr His Pro Glu Asp Ile Glu His Phe Arg Arg
          35           40           45
His Asp Glu Glu Glu Asp Ala Thr Asp Arg Leu Glu Gln Leu Glu Arg
          50           55           60
Met Pro Ile Val Glu Ala Asn Ile Pro Gln Lys Phe Leu Arg Arg Ser
65           70           75           80

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<210> 31040

<211> 123

<212> PRT

<213> A.fumigatus

<400> 31040

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Lys Pro Pro Leu Thr Ile Tyr Leu Thr Glu Glu His His Ile Asp Ser
1           5           10           15
Phe Asp Ala Gly Ser Phe Phe Thr Leu His Asp Tyr Asp Ser Ser Gly
          20           25           30
Ala Trp Thr Pro Asp Glu Val Arg Lys Thr Tyr Gly Met Asp Asp Glu
          35           40           45
Ser Asn Ser Gly Val Thr Glu Glu Arg Lys Gln Gln Ala Leu Arg Glu
          50           55           60
Val Phe Ala Leu Phe Asp Thr Gly Ser Ser Gly Val Ile Thr Arg Asp
65           70           75           80
Asn Trp Met Arg Leu Ile Ser Ala Gly Lys Arg Leu Pro Asp Leu Gly
          85           90           95
Phe Val Pro Asp Thr Met Ala Ile Leu Asn Thr Ser Met Lys Ser Ile
          100          105          110
Ile Ser Arg Asp Phe Thr Gly Arg Thr Pro Ser
          115          120

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<210> 31041

<211> 460
 <212> PRT
 <213> A.fumigatus

<400> 31041

Gly	Ser	Gln	His	Arg	Pro	Lys	Trp	Gln	Asp	Asn	Met	His	Ser	Asp	Asp
1				5					10					15	
Pro	Thr	Gly	Asp	His	Thr	Pro	Asp	Glu	Arg	Val	Lys	Lys	Pro	Thr	Thr
			20					25					30		
His	Lys	Arg	Glu	Pro	Lys	Ser	Arg	Asn	Lys	Cys	Ser	Asn	Pro	Leu	Arg
		35					40					45			
Lys	Gly	Ile	Gln	Asn	Phe	Val	Thr	Arg	His	Ile	Pro	Ser	Asp	Asp	Leu
	50					55					60				
Ala	Lys	His	Gly	Met	Ser	Leu	Glu	Ser	Leu	Glu	Ser	Ala	Leu	Pro	Lys
65					70					75					80
Arg	Phe	Thr	Val	Tyr	Glu	Gln	Leu	Leu	Leu	Pro	Val	Asn	Ala	Leu	
			85					90						95	
Ser	Asp	Pro	Pro	Ala	Trp	Gly	Ser	Leu	Tyr	Ala	Ser	Leu	Asp	Ser	Gln
			100					105					110		
Lys	Arg	Arg	Leu	Leu	Phe	Glu	Ser	Ile	Ala	Thr	Ala	Phe	Gly	Arg	Met
			115					120					125		
Gly	Val	Thr	Arg	Ile	Ala	Met	Asn	Ala	Pro	Ile	Ala	Pro	Met	Asn	Thr
	130					135					140				
Gln	Gly	Gly	Glu	Asn	Arg	Met	Arg	Ser	Pro	Thr	Gly	Leu	Ile	Pro	Leu
145					150					155					160
Tyr	Gly	Asp	Phe	Gly	Leu	Val	Pro	Ile	Leu	Gly	Arg	Arg	Glu	Cys	Ala
			165						170					175	
Ala	Asp	Ala	Gly	Arg	Leu	Pro	Ala	Cys	Val	Leu	Gly	Ala	Asp	Tyr	Ala
			180					185					190		
Glu	Ser	Gly	Asp	Cys	Ala	Asp	Leu	Gly	Pro	Ala	Val	Tyr	Asp	Val	Phe
	195						200						205		
Ser	Gly	Gly	Ile	Ser	Gln	Arg	Ser	Pro	Gly	Phe	Trp	Val	Lys	Glu	Ser
	210				215						220				
Ala	Leu	Lys	Gly	Leu	Met	Lys	Ala	Pro	Leu	Gly	Lys	Arg	Ser	Thr	Ala
225					230					235					240
Leu	Thr	Val	Val	Asp	Leu	Tyr	Ala	Gly	Ile	Gly	Tyr	Leu	Phe	Phe	Ser
			245						250					255	
Tyr	Leu	Lys	Arg	Gly	Val	Lys	Arg	Val	Trp	Gly	Trp	Glu	Ile	Asn	Gly
		260						265					270		
Trp	Ser	Val	Glu	Gly	Leu	Arg	Arg	Gly	Cys	Thr	Glu	Asn	Gly	Trp	Gly
		275					280					285			
Cys	Lys	Val	Val	Gly	Ile	Gly	Asn	Asp	Gly	Thr	Leu	Ser	Glu	Ser	Val
	290					295					300				
Pro	Asp	Leu	Val	Asp	Ser	Leu	Gln	Asp	Ser	Asp	Arg	Val	Val	Leu	Phe
305					310					315					320
His	Gly	Asp	Asn	Lys	Phe	Ala	Ala	Arg	Val	Met	Gly	Glu	Ile	Lys	Gly
			325						330					335	
His	Met	Glu	Arg	Arg	Asp	Ala	Trp	Asn	Arg	Ile	Arg	His	Val	Asn	Leu
		340						345					350		
Gly	Leu	Leu	Pro	Ser	Ser	Arg	Gly	Ala	Trp	Ser	Asp	Ala	Cys	Ala	Met
		355					360					365			
Ile	Asp	Leu	Gln	Leu	Gly	Gly	Trp	Met	His	Val	His	Glu	Asn	Val	Asp
	370					375					380				
Val	Gln	His	Ile	Asp	Ala	Lys	Lys	Gln	Glu	Ile	Ile	Thr	Glu	Ile	Gly
385					390					395					400
Arg	Leu	Arg	Ala	Ile	Ala	Phe	Pro	Ser	Ala	Val	Gln	Gln	Pro	Ile	Glu

11898

405 410 415
 Cys Arg His Ile Glu Asn Val Lys Thr Tyr Ala Pro Gly Val Met His
 420 425 430
 Cys Val Phe Asp Ile Lys Leu Pro Pro Ser Gly Glu Thr Pro Thr Gly
 435 440 445
 Leu Glu Leu Ser Arg Ala Ser Lys Gln Ser Pro Ser
 450 455 460

<210> 31042
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 31042
 Phe Leu Phe Met Glu Thr Leu Ala Trp Cys Pro Phe Trp Asp Gly Glu
 1 5 10 15
 Asn Ala Gln Pro Thr Gln Glu Asp Phe Gln Arg Ala Phe Trp Val Gln
 20 25 30
 Thr Met Gln Asn Gln Gly Ile Val Gln Ile Trp Ala Pro Leu Tyr Thr
 35 40 45
 Met Phe Ser Arg Gly Glu Tyr His Arg Glu Ala Pro Asp Phe Gly Ser
 50 55 60
 Arg Asn Leu Leu
 65

<210> 31043
 <211> 103
 <212> PRT
 <213> A.fumigatus

<400> 31043
 Leu Ser His Glu Ala Phe Glu Glu Ala Glu Arg Arg Pro Asp Asn His
 1 5 10 15
 His Leu Thr Thr Thr Pro Asp Ser Ser Pro Ile Ser Pro Thr Pro Pro
 20 25 30
 Val Thr Arg Asp Glu Phe Glu Tyr Tyr Asn His Glu Ile Tyr Ser Ile
 35 40 45
 Ser Asn Asn Lys Pro Tyr Cys Arg Tyr Glu Ser Leu Asn Ser Lys Pro
 50 55 60
 Ser Ser Ser Ser Arg Pro Pro Gln Lys Cys Leu Ser Lys Thr Ser Leu
 65 70 75 80
 Leu Thr Gly Thr Glu Leu Asn Ser Phe Thr Trp Pro Ser Ala Ile Arg
 85 90 95
 Ser Gln Gly Val Gln Arg Phe
 100

<210> 31044
 <211> 60
 <212> PRT
 <213> A.fumigatus

<400> 31044
 Pro His Pro Leu Thr Asp Lys Ser Arg Ile Ser Gln Ser Asn Gly Arg
 1 5 10 15
 Glu Arg Pro Tyr Ser Ser Arg Thr Val Ser Gly Ile Ile Pro Ser Thr
 20 25 30

[illegible]

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<210> 31046
<211> 94
<212> PRT
<213> A.fumigatus
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Pro	His	Thr	Leu	Arg	Thr	His	Pro	Asn	Pro	Thr	Leu	Ser	Pro	Thr	Leu
1				5					10					15	
Lys	Val	Val	Thr	Ala	Leu	Pro	Thr	Ser	Arg	Thr	Val	Pro	Ala	Pro	Ser
			20					25					30		
Trp	Pro	Arg	Ala	Ile	Pro	Leu	Cys	Leu	Asn	Ser	Arg	Ser	Val	Pro	Gln
		35					40					45			
Arg	Pro	Ala	Trp	Glu	Ile	Ser	Thr	Lys	Thr	Ser	Glu	Gly	Trp	Ile	Val
		50				55					60				
Arg	Leu	Ile	Val	Ser	Gly	Met	Thr	Ser	Pro	Leu	Ser	Glu	Pro	Leu	Lys
65					70					75					80
Thr	Leu	Asn	Ser	Ile	Val	Leu	Asp	Ile	Gly	Met	Ala	Leu	Gln		
				85					90						

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<210> 31047
<211> 213
<212> PRT
<213> A.fumigatus
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Leu	Pro	Ser	Arg	Ser	Ala	Thr	Arg	Leu	Gly	Leu	Asp	Gly	Cys	Ala	Arg
1				5					10					15	
Cys	Val	Val	Ile	Ala	Thr	Ser	Ala	Leu	Ala	Val	Cys	Thr	Phe	Thr	Cys
			20					25					30		
Leu	Tyr	Thr	Leu	Thr	Ile	Asp	Gly	Asn	Val	Met	Met	Gln	Gly	His	Asp
			35				40					45			
Gln	Tyr	Cys	Gln	Gln	Arg	Glu	Gln	Tyr	Gly	Lys	Gly	Asn	Thr	Glu	Ile
	50					55					60				

11901

Gly Ala Phe Ala Thr His Ala Val Trp His Glu Ser Met Leu Val Lys
 65 70 75 80
 Leu Pro Asp Asp Leu Glu Pro Glu Tyr Ala Ala Pro Leu Met Cys Gly
 85 90 95
 Gly Ala Thr Val Trp Cys Ala Leu Thr Cys Tyr Asp Ile Lys Pro Gly
 100 105 110
 Glu Arg Val Gly Ile Gln Gly Ile Gly Gly Leu Gly His Met Ala Ile
 115 120 125
 Gln Phe Ala Ser Lys Leu Gly Cys Asp Val Val Val Phe Ser Ser Ser
 130 135 140
 Ala Ala Lys Lys Asp Glu Ala Lys Gly Leu Gly Ala Asn Glu Phe His
 145 150 155 160
 Thr Leu Glu Asn Gly Ala Val Gly Asp Ala Val Arg Pro Val Lys His
 165 170 175
 Leu Leu Trp Cys Gly Asn Glu Pro Pro Asp Phe Ser Lys Leu Val Pro
 180 185 190
 Pro Ser Leu Ser Ala Gly Asp Cys Asn Leu Pro Leu Phe Gln Ser Ile
 195 200 205
 Ser Ala His Val Ser
 210

<210> 31048

<211> 237

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (153)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31048

Arg Arg Leu Cys Phe Ala Arg Glu Arg Gly Gly Tyr Glu Val Cys Pro
 1 5 10 15
 Val Met Thr Arg Leu Asn Leu Glu Trp Ser Ala Ser Ala Leu Ser Asp
 20 25 30
 Asp Cys Ser Glu Glu Glu Ile His Gln Gln Ile Asn Thr Asn Val Tyr
 35 40 45
 Gly Pro Met Arg Val Ile Lys Ala Ala Leu Pro Phe Met Arg Ala Gln
 50 55 60
 Lys Ser Gly Thr Ile Val Asn Ile Ser Ser Ile Ala Gly Leu Gln Ala
 65 70 75 80
 Gln Pro Ser Cys Ser Leu Tyr Ala Ala Ser Lys Phe Ala Leu Glu Gly
 85 90 95
 Thr Phe Arg Arg Lys Ser Glu Met Asn Pro Arg Leu Thr Ile Ser Arg
 100 105 110
 Phe Leu Arg Ser Leu Ser Lys Glu Val Ala Pro Phe Asn Ile Arg Val
 115 120 125
 Leu Ile Val Lys Pro Gly Ala Phe Arg Thr Asn Phe Leu Ser Ala Tyr
 130 135 140
 Ala Thr Leu Pro Ala Gly Leu Asn Xaa Ala Tyr Glu Gly Thr Thr Ile
 145 150 155 160
 Asp Gln Val Leu Gln Leu Phe Gln Ser Arg Ser Gly Lys Gln Glu Gly
 165 170 175
 Asp Pro Val Lys Ala Val Glu Arg Ile Ile Asp Val Val Gln Gly Thr
 180 185 190

11902

Gly Val Gly Ala Gly Lys Thr Ser Cys Leu Arg Leu Pro Leu Gly Arg
 195 200 205
 Asp Cys Ile Ala Arg Ala Lys Thr Lys Leu Glu Glu Val Arg Lys Asn
 210 215 220
 Leu Asp Glu Met Glu Glu Ile Ala Cys Ser Thr Asp Met
 225 230 235

<210> 31049
 <211> 117
 <212> PRT
 <213> A.fumigatus

<400> 31049
 Val Gln Glu Thr Val Thr Tyr Leu Cys Ser Arg Val Phe Pro Leu Met
 1 5 10 15
 Ser Pro Asp Ser Thr Ile Tyr Leu Leu Thr Val Ser Met Gln Gln Pro
 20 25 30
 Pro Leu Pro Val Met Pro Leu Ile Ser Asn Gly Ile Arg Val Gln Gly
 35 40 45
 Ser Ala Val Ala Ser Arg Val Ser Val Arg Lys Met Leu Arg Phe Val
 50 55 60
 Ser Val His Arg Ile Arg Pro Ile Ile Met Thr Trp Pro Met Thr Lys
 65 70 75 80
 Asp Gly Ile Gln Ala Ala Phe Gln Ile Leu Glu Gln Gly Lys Met Arg
 85 90 95
 Tyr Arg Gly Val Ile Val Gly Gln Arg His Leu Met Gly Lys Pro Ala
 100 105 110
 Val Glu Lys Met Gly
 115

<210> 31050
 <211> 109
 <212> PRT
 <213> A.fumigatus

<400> 31050
 Lys Ser Glu Thr Pro Asp Thr Met Ala Ala Pro Gln Thr Trp Leu Ile
 1 5 10 15
 Thr Gly Ala Ser Ser Gly Phe Gly Val Val Leu Ala Glu Ala Val Leu
 20 25 30
 Lys Ala Gly His Arg Val Val Ala Thr Ala Arg Asn Pro Ile Lys Ala
 35 40 45
 Ala Gln Thr Tyr Pro Gln Ile Glu Ser Leu Gly Gly Thr Trp Leu Gln
 50 55 60
 Leu Asp Val Thr Arg Pro Asp Thr Lys Glu Thr Val Glu Asp Ala Ile
 65 70 75 80
 Arg Lys Gln Gly Arg Ile Asp Val Val Val Asn Asn Ala Gly Tyr Ala
 85 90 95
 Leu Leu Gly Ser Val Glu Asp Met Arg Tyr Ala Leu Ser
 100 105

<210> 31051
 <211> 141
 <212> PRT
 <213> A.fumigatus

<400> 31051

Lys Ser Tyr Asp Gly Leu Ser Gly Arg Glu Gln Tyr His Leu Pro Ile
 1 5 10 15
 Asn Ser Arg Val Gln Asn Leu Thr Tyr His Cys Lys Ala Met Pro Met
 20 25 30
 Ser Lys Thr Ile Glu Phe Asn Val Phe Lys Gly Ser Glu Ser Gly Asp
 35 40 45
 Val Ile Pro Asp Thr Ile Arg Arg Thr Ile Gln Pro Ser Glu Val Phe
 50 55 60
 Val Glu Ile Ser His Ala Gly Leu Cys Gly Thr Asp Arg Leu Phe Lys
 65 70 75 80
 His Lys Gly Ile Ala Leu Gly His Glu Gly Ala Gly Thr Val Arg Asp
 85 90 95
 Val Gly Ser Ala Val Thr Thr Phe Lys Val Gly Asp Lys Val Gly Phe
 100 105 110
 Gly Trp Val Arg Lys Val Cys Gly His Cys Asp Phe Cys Val Ser Gly
 115 120 125
 Met Tyr Phe Tyr Leu Pro Leu His Pro Tyr Asp Arg Trp
 130 135 140

<210> 31052

<211> 114

<212> PRT

<213> A.fumigatus

<400> 31052

Arg Tyr Arg Ile Val Asn Ile His Thr Ile Asp Gly Ile Pro Asn Met
 1 5 10 15
 Thr Asp Pro Thr Pro Ser Cys Leu Leu Thr Asn Ser Thr Asp Thr Met
 20 25 30
 Pro Pro Asn Arg Val Ser Asn Leu Ser Pro Asn Leu Leu Asn Gly Ile
 35 40 45
 Phe Ala Ser Leu Ser Gln Pro Ser Arg Arg Trp Ser Leu Leu Arg Thr
 50 55 60
 Leu Gln Ser Asp Asn Pro Arg Asp Ile Asn Gly Glu Leu Arg Gly Thr
 65 70 75 80
 Ala Ser Phe His Pro Leu Arg His Ser Ser Ala Ala Ser Asp His Arg
 85 90 95
 Asp Val Val Tyr Arg Glu Glu Gly Glu Leu Pro Asn Thr Phe Gly Pro
 100 105 110
 Ala Ser

<210> 31053

<211> 62

<212> PRT

<213> A.fumigatus

<400> 31053

Val Leu Lys Tyr Tyr Tyr Asn Gly Arg Met Gly Ile Arg Thr Ile Gln
 1 5 10 15
 Ile Leu Ile Val Val Pro Ile Phe Ser Ala Leu Asp Leu Met Val Leu
 20 25 30
 Leu Tyr Ala Ala Cys Asp Leu Trp Tyr Pro Ser Ser Ser Ile Lys Tyr
 35 40 45
 Leu Asp His Gln Ile Lys Pro Val Pro Glu Asn Thr Ser Thr

50

55

60

<210> 31054
 <211> 70
 <212> PRT
 <213> A.fumigatus

<400> 31054
 His Val Met Ile Cys Ser Thr Gln Lys Ser Glu Lys Val Ile Tyr Ser
 1 5 10 15
 Ser Met Arg Ala Ile Thr Val Val Met Gln Gly Gln Phe Arg Lys Met
 20 25 30
 Ile Cys Phe Pro Trp Glu His Gly Ala Cys Ile Ser Gly Ser Ser Asp
 35 40 45
 Asp Pro Leu Phe Pro Glu Arg Pro Val Pro Ser Phe Thr Ser Ala Asn
 50 55 60
 Pro Tyr Leu Asn Gln Thr
 65 70

<210> 31055
 <211> 64
 <212> PRT
 <213> A.fumigatus

<400> 31055
 Ala Ser Asn Trp Tyr Glu Ser Ser His Leu Gly Ser Trp Val Arg Val
 1 5 10 15
 Glu Lys Ala Arg Ala Gly Tyr Val Val Pro Thr Leu Val Trp Gly Tyr
 20 25 30
 Leu Met Phe Thr Val Pro Leu Thr Thr Glu Tyr Tyr Arg Val Val Tyr
 35 40 45
 Cys Leu Asp Ser Asp Asp Ser Lys Thr Leu Ala Val Leu His Trp Leu
 50 55 60

<210> 31056
 <211> 78
 <212> PRT
 <213> A.fumigatus

<400> 31056
 Leu Pro Pro Val Asn Phe Leu Gln Tyr Leu Leu Gln Leu Glu Pro Glu
 1 5 10 15
 Thr Ala Ser Asn Val Pro Glu Asp Ala Thr Ser Glu Ser Pro Leu Trp
 20 25 30
 Gly Tyr Arg Val Gly Trp Ser Ile Ser Gly Asn Gly Ala Ser Glu Tyr
 35 40 45
 His Cys Glu Arg Thr Cys Pro Cys Arg Glu His Thr Cys Thr Gly Asp
 50 55 60
 His Gln Cys Leu Glu Gly Glu Ile Ile Trp Leu Ala Asn Ala
 65 70 75

<210> 31057
 <211> 264
 <212> PRT
 <213> A.fumigatus

<400> 31057

Ser His Pro Leu Asp Thr Gly Asp Arg Pro Tyr Met Cys Val Leu Cys
 1 5 10 15
 Lys Asp Thr Phe Ser Arg Ser Asp Ile Leu Lys Arg His Phe Gln Lys
 20 25 30
 Cys Ser Ile Arg Arg Gly Asn Pro Thr Gly Ala Thr His Leu Ser His
 35 40 45
 Pro Gln Ala His Leu Lys Arg Ser Gln Ala Gln Ala Ala Asn Thr
 50 55 60
 Ala Lys Ser Leu Gln Glu Glu Val Ser Ser Thr Val Pro Pro Ser Asn
 65 70 75 80
 Gly Ile Ala Gly Ala Thr Phe Ser Glu Gly Ala Val Asn Gly Asn Gly
 85 90 95
 Leu Gly Ala Gly Arg Pro Gly Phe Thr Asp Gln Gln Pro Leu Gly Phe
 100 105 110
 Thr Met Gln Ser Val Asn Gly Leu Gly Arg Gly Gln Pro Asp Asp Ala
 115 120 125
 Tyr Ala His Gly Gln Ala His Gln Arg Ala Ser Trp Met Ala Thr Pro
 130 135 140
 Lys Gln Asn Pro Tyr Leu Val Gln Pro Gly Thr Glu Ala Pro Asn Gln
 145 150 155 160
 Gln Leu Asn Val Asp Arg Pro Thr Leu Glu Gln Ala Lys Pro Ser Val
 165 170 175
 Val Asp Pro Lys Arg Pro Met Met Pro Gly Pro Asp Pro Asn His Gly
 180 185 190
 Gly Gly Leu Asp Trp Thr Ser Met Phe Gln Ala Gly Ala Ser Asp Gly
 195 200 205
 Tyr Ile Asn Gln Val Phe Pro Gln Ser Met Ala Ser Gly Gln Glu Pro
 210 215 220
 Ile Gln Ala Gln Val Glu Thr Glu Arg Lys Phe Tyr Pro Thr Thr Thr
 225 230 235 240
 Thr Ala Gly Pro Gln Glu Gly Gly Met Asn Gly Leu Tyr Leu Ala Ser
 245 250 255
 Thr Thr Leu Gly Gly Asp Gly Lys
 260

<210> 31058

<211> 197

<212> PRT

<213> A.fumigatus

<400> 31058

Gln Glu Val Val Asp Ser Gly Asn Thr Asn Ile Gly Leu Arg Asp Gln
 1 5 10 15
 Arg Leu Ala Leu Gln Trp Val Gln Glu Asn Ile Ala Ala Phe Gly Gly
 20 25 30
 Asp Pro Ala Lys Val Thr Ile Trp Gly Glu Ser Ala Gly Gly Met Ser
 35 40 45
 Val Gly Tyr His Leu Thr Ala Tyr Gly Gly Arg Asp Asp Gly Leu Phe
 50 55 60
 Arg Gly Ala Ile Met Gln Ser Gly Gly Ser Ile Ser Val Ser Pro Ala
 65 70 75 80
 Ser Tyr Thr Val Phe Gln Gly Ser Tyr Asp Asp Leu Val Ser Lys Val
 85 90 95
 Gln Cys Ser Asp Asp Glu Asp Thr Leu Gln Cys Leu Arg Asp Val Pro
 100 105 110

11907

Glu Ser Ser Gln Lys Glu Ser Glu Pro Arg Pro Ser Lys His Xaa Thr
 260 265 270
 Pro Gln Gln Gln Val Gln Val Pro Val Pro Ser Val Pro Ser Ala Pro
 275 280 285
 Ala Pro Thr Pro Ala Pro Thr His Thr Thr Pro Val Pro Thr Thr Thr
 290 295 300
 Ala Thr Thr Ser Gln Pro Thr Thr Thr Asp Ala Pro Trp Leu Asp Arg
 305 310 315 320
 Ala Ile Leu Gly Val Leu Val Ala Leu Ala Phe Met Ile Val Arg Arg
 325 330 335
 Leu Ala Lys Ser Glu Glu Val
 340

<210> 31060

<211> 92

<212> PRT

<213> A.fumigatus

<400> 31060

Tyr Pro Pro Gly Leu Val Leu Glu Leu Ala Gln Leu Pro Pro Lys Ala
 1 5 10 15
 Ser Ser Pro Arg Tyr His Gln His Gln His Gln His Pro Gly Pro His
 20 25 30
 Pro Pro Gln Pro Pro Pro Pro Trp His Asp Thr Pro Pro Ala Thr Pro
 35 40 45
 Ser Thr Pro Pro His Cys Ser Ser Leu Pro His Lys Pro Arg Thr Pro
 50 55 60
 Thr Pro Gly Ser Gln Pro His Thr Ala Ala Ser Gln Gln His Gln His
 65 70 75 80
 Pro Thr Leu Pro Pro Ala Pro Ser His Pro His Pro
 85 90

<210> 31061

<211> 256

<212> PRT

<213> A.fumigatus

<400> 31061

Leu Gln Glu Ile Arg Ser Thr Leu Glu Lys Ala Ala Ser Ile Thr Glu
 1 5 10 15
 Pro Ser Val Asp Val Arg Gln Phe Phe Ala Phe Pro Pro Glu Asp Ile
 20 25 30
 Ala Asn Ser Glu Asp Asn Lys Val Pro Ala Leu Leu Ile Tyr Ala Leu
 35 40 45
 Asn Ile Phe Ser Lys Cys Leu Ile Ser Ser Leu Ile Thr Glu Ala Ser
 50 55 60
 Ile Asn Gln Gly Gln Ala Glu Pro Ile Gly Ile Val Ala Ala Gln Ile
 65 70 75 80
 Phe Ser Met Asp Ala Phe Ile Tyr Lys Gly His His Met Val Asp Ile
 85 90 95
 Leu Trp Ala Lys Tyr Arg Val Val Cys Pro Ala Leu Trp Gly Phe Tyr
 100 105 110
 Gly Ser Glu Lys Thr Glu Ala Gly Arg Lys Ala Ile Gly Trp Trp Arg
 115 120 125
 Glu Gly Pro Asp Gly Pro Phe Ile Ser Glu Gln Gly His Ala Asp Arg
 130 135 140

11908

Met Thr Ala Leu Gly Ala Gly Tyr Ala Ala Leu Thr Leu Arg Asn Phe
 145 150 155 160
 Gly Lys Thr Pro Arg Arg Asn Pro Phe Pro Asn Thr Met Phe Trp Tyr
 165 170 175
 Thr Met His Lys Ile Leu Met Ile Pro Pro Asn Glu Ile Gln Glu Thr
 180 185 190
 His Ile Thr Leu Leu Ser Ala Met Leu Lys Thr Ser Val Glu Arg Ile
 195 200 205
 Val Gly Phe Phe Gly His Met Gly Leu Ala Leu Ile Arg Arg Ala Ile
 210 215 220
 Val Asp Leu Pro Asn Ser Leu Thr Arg Gln Ser Met Gly Val Asn Gln
 225 230 235 240
 Leu Lys Leu Leu Arg Asp Ile Tyr Lys Arg Glu Lys His Ile Ile Ile
 245 250 255

<210> 31062

<211> 77

<212> PRT

<213> A.fumigatus

<400> 31062

Asn Glu Asn His Gly Ile Trp Asp Asn Tyr Pro Gly Leu Leu Ile Leu
 1 5 10 15
 Leu Gly Met Arg Met Pro Asp Arg Pro Thr Gly Arg Lys Val Thr Met
 20 25 30
 Ile His Asp Ile Ser Gly Asn Lys His Lys His Ile Cys Phe Ser Thr
 35 40 45
 Thr Tyr Val Ala Tyr Leu Asn Tyr Asn Gln Ser Arg Val Thr Ser Ser
 50 55 60
 Ala Tyr Val Val Leu His Ala Val Val Ile Asp Leu Glu
 65 70 75

<210> 31063

<211> 316

<212> PRT

<213> A.fumigatus

<400> 31063

Arg Gln Arg Thr Ala Gly Met Lys Pro Ala Pro Pro Pro Thr Arg Pro
 1 5 10 15
 Pro Gly Glu Thr Leu Lys Tyr Ala Ser Ala Ala Ala Ala Ala Ala
 20 25 30
 Ser Asp Lys Asn Gly Val Gly Ile Ala Pro Leu Pro Pro Pro Pro Gly
 35 40 45
 Thr Ser Pro Ala Tyr Thr Ala Ala Ile Pro Val Ser Arg Ala Ser Ser
 50 55 60
 Thr Ala Ser Pro Val Val Ser Ser Val Gln Pro Val Ser Lys Ala Ala
 65 70 75 80
 Ala Thr Ala Thr Glu Glu Pro Gly Gly His Gly Arg Ser Lys Thr Pro
 85 90 95
 Ala Leu Asn Pro Ser Ala Thr Ala Thr Pro Ala Ala Ala Ser Ala Ser
 100 105 110
 Asn Thr Met Pro Ser Thr Pro Ala Thr Asp Lys Ala Asn Thr Thr Ala
 115 120 125
 Ala Lys Glu Gln Ser Ala Thr Ala Asn Gly Glu Thr Ala Lys Glu Asp
 130 135 140

11909

Glu Gln Arg Asp Glu Ser Ile Tyr His Leu Pro Pro Gly Leu Gln Asp
 145 150 155 160
 Leu Ile Gln Ser Phe Glu Ile Thr Lys Ser Arg Ala Thr Asn Ser Ala
 165 170 175
 Ser Ser Ser Ser Pro Ser Val Gln Arg Leu Leu Ala Ala Ser Leu Ala
 180 185 190
 Thr Cys Pro Glu Pro Ala Asp Ala Glu Lys Pro Arg His Tyr Arg Pro
 195 200 205
 Ser Asn Pro Tyr Asn Thr Pro Leu Tyr Tyr Pro Gln Glu Pro Leu Ala
 210 215 220
 Ile Phe Asp Asp Pro Arg Leu Tyr Asp Thr Gly Arg Ile Asp Thr Asp
 225 230 235 240
 Thr Leu Phe Tyr Leu Phe Tyr Tyr Arg Gln Gly Ser Tyr Gln Gln Tyr
 245 250 255
 Leu Ala Ala Lys Ala Leu Lys Asn Gln Ser Trp Arg Phe His Lys His
 260 265 270
 Tyr Gln Thr Trp Phe Gln Arg His Glu Glu Pro Lys Asn Ile Thr Glu
 275 280 285
 Asp Tyr Glu Gln Gly Thr Tyr Arg Phe Phe Asp Tyr Glu Ser Thr Trp
 290 295 300
 Tyr Val Ser Phe His Ser Ser Phe Leu Cys Phe Leu
 305 310 315

<210> 31064
 <211> 60
 <212> PRT
 <213> A.fumigatus

<400> 31064
 Gln Asp Arg Cys Leu Arg Val Ser Arg Gly Thr His Asp Ser Thr Ile
 1 5 10 15
 Arg Thr Phe Ala Ser Ala Leu Ser Leu Ser Val Pro Leu Ala Leu Pro
 20 25 30
 Gly Thr Ser Ser Trp Ala Val Val Leu Cys Gly Asp Phe Thr Leu Trp
 35 40 45
 His Pro Phe Ser Arg Tyr Phe Ser Ser Lys Trp Tyr
 50 55 60

<210> 31065
 <211> 199
 <212> PRT
 <213> A.fumigatus

<400> 31065
 Glu Ser Gly Val Ala Pro Ser Glu Glu Ser Leu Pro Pro Thr Glu Cys
 1 5 10 15
 His Glu Leu Val Cys His His Leu Leu Asn Leu Met Pro Cys Asn His
 20 25 30
 Ser Gln Pro Leu Leu Ile Leu Gly Thr Ala Ala Gly Pro Ala Cys Lys
 35 40 45
 Thr Cys Arg Glu Lys Cys Arg Lys Cys Asp Arg Gly Arg Pro Lys Cys
 50 55 60
 Gln Arg Cys Ile Ser Lys Gly Leu Glu Cys Gly Gly Tyr Pro Asp Leu
 65 70 75 80
 Tyr Arg Phe Cys Gly Ile Ala Ser Arg Gly Arg Trp Lys Gly Ala Arg
 85 90 95

11910

Val Pro Thr Pro Arg Asn Ile Lys Ser Lys Ser Thr Val Ala Glu Ser
 100 105 110
 Gln Gln Val Ser Thr Thr Ala Thr Pro Asp Ser Val Thr Ser Gly Trp
 115 120 125
 Thr Glu Gly Val Ser Thr Gln Pro Ser Ser Lys Lys Ser Ser Arg Ser
 130 135 140
 Ala Thr Glu Leu Pro Asp Asp Ile Pro Lys Ile Leu Asn Leu Thr Gln
 145 150 155 160
 Thr Glu Leu Leu Leu Ser His Cys Lys Leu Leu Leu Ala Gly Phe Trp
 165 170 175
 Arg Ala Gly Asn Thr Asp Ala Arg Glu Val Gln Thr Lys Thr Ser Tyr
 180 185 190
 Val Arg Ile Lys Leu Leu Arg
 195

<210> 31066

<211> 198

<212> PRT

<213> A.fumigatus

<400> 31066

Asp Met Asn Ile Gly Glu Lys Ala Arg Ile Ser Ala Ala Gly Gly Phe
 1 5 10 15
 Val Asp Phe Gly Arg Val Asn Gly Asn Leu Ala Leu Ser Arg Ala Ile
 20 25 30
 Gly Asp Phe Glu Phe Lys Lys Ser Pro Glu Leu Ser Pro Glu Gln Gln
 35 40 45
 Ile Val Thr Ala Tyr Pro Asp Val Thr Val His Glu Val Thr Asp Asp
 50 55 60
 Asp Glu Phe Leu Val Ile Ala Cys Asp Gly Thr Ser Phe Cys Ile Val
 65 70 75 80
 Gly Leu Ser Thr Ile Thr Pro Ser Cys Cys Pro Leu Leu Met Asp Leu
 85 90 95
 Leu Val Gly Ile Trp Asp Cys Gln Ser Ser Gln Ser Val Val Glu Phe
 100 105 110
 Val Arg Arg Gly Ile Ala Ala Lys Gln Glu Leu Tyr Arg Ile Cys Glu
 115 120 125
 Asn Met Met Asp Asn Cys Leu Ala Ser Asn Ser Glu Thr Gly Gly Val
 130 135 140
 Gly Cys Asp Asn Met Thr Met Ile Ile Ile Gly Leu Leu Asn Gly Lys
 145 150 155 160
 Thr Lys Glu Glu Trp Tyr Asn Gln Ile Ser Glu Arg Val Ala Asn Gly
 165 170 175
 Asp Gly Pro Cys Ala Pro Pro Glu Tyr Gly Lys Cys Leu Glu Asp Pro
 180 185 190
 Met Val Gly Glu Gly Tyr
 195

<210> 31067

<211> 212

<212> PRT

<213> A.fumigatus

<400> 31067

Thr Ser Ser Glu Gly Gln Asp Glu Cys Cys Leu Tyr Gly Leu Ser Ala
 1 5 10 15

11911

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Met Gln Gly Trp Arg Ile Ser Met Glu Asp Ala His Ala Ala Val Leu
      20                      25                      30
Asp Leu Gln Ala Lys Ser Thr Gly Gly Ser Glu Lys Pro Thr Asp Pro
      35                      40                      45
Asp Lys Arg Leu Ala Phe Phe Gly Val Tyr Asp Gly His Gly Gly Asp
      50                      55                      60
Lys Val Ala Leu Phe Ala Gly Glu Asn Val His Lys Ile Val Ala Lys
      65                      70                      75                      80
Gln Glu Ala Phe Ala Lys Gly Asp Ile Glu Gln Ala Leu Lys Asp Gly
      85                      90                      95
Phe Leu Ala Thr Asp Arg Ala Ile Leu Glu Gly Lys Trp Thr Pro Leu
      100                     105                     110
Trp Gly Phe Trp Asn Ser Glu Phe Cys Ser Leu Val Ile Val Arg Leu
      115                     120                     125
Gly Val Leu Lys Glu Thr Asp Leu Leu Asp Pro Lys Tyr Glu Glu Glu
      130                     135                     140
Val Ser Gly Cys Thr Ala Ala Val Ser Val Ile Ser Lys Asn Lys Ile
      145                     150                     155                     160
Trp Val Val Cys Thr Phe Asn Leu Tyr Pro Thr Ala Ile Thr Trp Arg
      165                     170                     175
Ser Gly Glu Arg Leu Ile Gly Met Val Gly Lys Arg Gly Arg Phe Thr
      180                     185                     190
Leu Ser Ile Gly Cys Lys Gly Pro Arg Lys Ala Ala Phe Phe Arg Pro
      195                     200                     205
Gln Ala Thr Glu
      210

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<210> 31068
 <211> 136
 <212> PRT
 <213> A.fumigatus

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<400> 31068
Glu Met Val Val Ala Ala Glu Phe Arg Gly Pro Gly Ile Arg Asn Gln
1      5      10      15
Phe Glu Glu Thr Pro Asp Asn Tyr Asp Leu Glu Asn Asp Arg Ser Arg
      20      25      30
Gly Phe Ser Val Arg Ser Gly Arg Ile Ile Leu Leu Gly Asp Gly Thr
      35      40      45
Glu Leu Ile Pro Glu Gln Asn Asp Glu Glu Leu Phe Asp Gln Arg Glu
      50      55      60
Glu Asn Arg Asp Val Thr Asn His Leu Gln His Glu Ser Pro Asp Ser
      65      70      75      80
Ser Ala Arg Gly Asp Arg Glu Gly Thr Pro Gly Pro Gln Ser Lys Asn
      85      90      95
Glu Thr Thr Ser Lys Ala Glu Glu Thr Ser Thr Ala Ala Asn Leu Ser
      100     105     110
Glu Ser Pro Ser Ser Ala Asn Lys Asn Ser Ser Gly Ser Gly Thr Glu
      115     120     125
Ala Thr Glu Lys Ser Ala Ser Ser
      130     135

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<210> 31069
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 31069

Ala Asn Ala Gly Asp Ser Arg Ser Val Leu Gly Val Lys Gly Arg Ala
 1 5 10 15
 Lys Pro Leu Ser Phe Asp His Lys Pro Gln Asn Glu Gly Pro Cys Leu
 20 25 30
 Ile Ile Gln Pro Ser Gly Leu Ser Gln Leu Arg Tyr Glu Tyr Arg Arg
 35 40 45
 Glu Ser Ser Tyr Gln Cys Arg Trp Trp Leu Arg Arg Leu Trp Pro Ser
 50 55 60
 Gln Arg
 65

<210> 31070

<211> 74

<212> PRT

<213> A.fumigatus

<400> 31070

Pro Thr Arg Tyr Ser Arg Met His Ser Lys Gly Lys Gly Ile Ser Ala
 1 5 10 15
 Ser Ala Ile Pro Tyr Ser Arg Ser Ala Pro Ala Trp Leu Lys Thr Thr
 20 25 30
 Pro Glu Gln Val Val Asp Gln Ile Cys Lys Leu Ala Arg Lys Gly Ala
 35 40 45
 Thr Pro Ser Gln Ile Gly Val Val Leu Arg Asp Ser His Gly Ile Ala
 50 55 60
 Gln Val Lys Val Val Thr Gly Thr Phe Ile
 65 70

<210> 31071

<211> 170

<212> PRT

<213> A.fumigatus

<400> 31071

Phe Gly Tyr Leu Phe Tyr Asp Ile Leu Phe Thr Tyr Val Pro Asn Val
 1 5 10 15
 Phe Gln Thr Pro Tyr Gln Thr Cys Pro Leu Asp Leu His Thr Asp Ala
 20 25 30
 Phe Tyr Pro Ser Arg Ala Ser Glu Ile Asn His Arg Leu Val Glu Ile
 35 40 45
 Thr Asn Gly Ala Ala Glu Arg Ile Ile Arg Asp Ile His Glu Arg Glu
 50 55 60
 Ser Ala Lys Gln Thr Cys Ala Ile Gly Ile Asp Trp Ala Phe Glu Leu
 65 70 75 80
 Asp Asp Leu Val Glu Ile Val Gln Cys Phe Arg Gly Glu Ala Leu Ala
 85 90 95
 Thr Ile Cys Lys Val Met Ala Gln Glu Tyr Gln Gln Arg Gly Gly Gly
 100 105 110
 Ile Pro Asp Leu Phe Leu Trp Ser Val Glu Lys Lys Glu Val Met Phe
 115 120 125
 Val Glu Val Lys Ser Glu Asn Asp Arg Leu Ser Asp Thr Gln Arg Leu
 130 135 140
 Trp Ile His Val Leu Thr Gly Ala Gly Val Arg Val Glu Leu Cys Asn
 145 150 155 160

11913

Ala Val Ala Lys Glu Val Arg Arg Ser Ser
165 170

<210> 31072
<211> 196
<212> PRT
<213> A.fumigatus

<400> 31072
Gly Tyr Val Glu Cys Ser Ala Val Asn Ser His Asn Val Cys Val Ile
1 5 10 15
Gly Gly Tyr Arg Met Arg Val Ser Cys Cys Ser Trp Leu Thr Leu Thr
20 25 30
Pro Ser Ile Ala Thr Thr Arg Gln Glu Asn Met Met Asn Glu Leu Arg
35 40 45
Asp Ala Ile Leu Arg Gln Asn Glu Ala Phe Leu Gln Gln Glu Ile Ser
50 55 60
Arg Ala Asp Gly Gln Cys Ala Glu Ile Gln Leu Ser Leu Gln Gln Val
65 70 75 80
Glu Ala Ser Asp Asn Gly Gln Gln Asn Gly Asp Leu Glu Gln Ser Arg
85 90 95
Asn Glu Leu Leu Gln Glu Ile Arg Gln Gln Gln Ala Ser His Asp Ala
100 105 110
Phe Arg Ile Thr Cys Glu Gly Glu Leu Ser Arg Thr Val Tyr Glu Arg
115 120 125
Thr Gly Gln Lys Ile Lys Gly Val Lys Ala Thr Asn His Ser Ser Ser
130 135 140
Leu Ala Gly Phe Ile Asn Thr Ser Gly Asp Glu Leu Thr Ile Asp Gln
145 150 155 160
Asp Ile Ser Asp Val Thr Ala Asp Asn Trp Ser Val Ala Ala Ala Gly
165 170 175
Val Ile Lys Asn Leu Asn Phe Lys Asp Leu Arg Ser Thr Ala Thr Ser
180 185 190
Arg Gln Thr Pro
195

<210> 31073
<211> 128
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (10), (21), (64)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31073
Leu Val Val Cys Val Pro Leu Thr Ala Xaa Thr His His Leu Phe Gly
1 5 10 15
Ala Glu Glu Phe Xaa Val Leu Ser Ser His Ile Pro Ala Gly His Pro
20 25 30
Lys Pro Tyr Leu Thr Asn Ile Ala Arg Gly Lys Val Ile Asp Gln Glu
35 40 45
Ala Leu Ile Ala Ser Leu Arg Ser Gly Glu Leu Ser Gly Ala Ala Xaa
50 55 60
Asp Val Thr Asp Pro Glu Pro Leu Pro Ala Asp His Pro Leu Trp Asp

11914

65				70					75				80
Leu	Pro	Asn	Val	Arg	Ile	Ser	Pro	His	Ile	Ser	Ser	Leu	Gly
				85					90				95
Tyr	Phe	Pro	Arg	Ser	Leu	Asp	Ile	Ala	Arg	Glu	Asn	Met	Trp
			100					105					110
Glu	Arg	Gly	Glu	Pro	Leu	Val	Asn	Glu	Tyr	Lys	Arg	Thr	Arg
		115					120					125	

<210> 31074
 <211> 113
 <212> PRT
 <213> A.fumigatus

<400> 31074
 Gly Gln Leu Asn Leu Arg Ala Leu Ala Ile Cys Ser Gly Asp Phe Leu
 1 5 10 15
 Leu Lys Glu Ser Phe Ile Leu Pro Gln Tyr Cys Ile Ser Gln Phe Ile
 20 25 30
 His His Ile Leu Leu Thr Ser Arg Cys Asp Thr Gly Ser Gln Cys Gln
 35 40 45
 Pro Ala Ala Thr Ala Asn Ser His Ser Ile Pro Ala Asn Asp Thr Tyr
 50 55 60
 Val Val Ala Val Asn Ser Ala Thr Phe Asn Val Pro Leu Gln Ser Leu
 65 70 75 80
 Ser Cys Pro Phe Lys Val Met Ile Leu Ser Phe Pro Asn Lys Pro Thr
 85 90 95
 Leu His Leu Ser Ile Gln Asn Val Phe Ser Ser Val Asp Leu Leu Ile
 100 105 110
 Gln

<210> 31075
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 31075
 Cys Pro Arg His Ser Ala Ala Val Phe Met His Ser Pro Gln Thr Leu
 1 5 10 15
 Glu Val Pro Thr Arg Arg Leu Pro Leu Pro Gln Thr Thr Gly Ile Thr
 20 25 30
 Leu Asp Asp Val Ala Phe Ser Asn Val Gln Arg His Val Phe Asp Thr
 35 40 45
 Asn Gly Lys Glu Tyr Val Glu Gly Ala Pro Arg Leu Trp Thr His Lys
 50 55 60
 Leu Glu
 65

<210> 31076
 <211> 183
 <212> PRT
 <213> A.fumigatus

<400> 31076
 Thr Val Gln Phe Leu Arg Arg Arg Val Pro Leu Gln Met Pro Trp Gly
 1 5 10 15

11915

Cys Ser Leu Ala Ile Pro Pro Val Leu Ala Arg Leu Glu Arg Gln Asn
 20 25 30
 Ser Met Ser Asp Met Ala Ser Asp Gln Leu Leu Tyr Leu Ala Ser Gln
 35 40 45
 Arg Ile Ile Ile Gln Asp Asn Gly Lys Lys Pro Asp Lys Phe Met Val
 50 55 60
 Met Gln Trp Ile Leu Thr Leu Glu Gly Leu Glu Asn Ala Pro Gly Thr
 65 70 75 80
 Gly Leu Glu Asp His Ser Ile Ser Ile Glu Ser Phe Ala Ile Arg Ile
 85 90 95
 Pro Tyr Asp Ala Leu Phe Tyr Lys Val Gln Asn Ala Phe Thr Pro Trp
 100 105 110
 Ser Tyr Pro Ser Val Val Leu Leu Asp Tyr Val Gly Asp Leu Gln Gln
 115 120 125
 Leu Tyr Asp Asp Gln Pro Val Arg Lys Glu Leu Ile Thr Phe Gly Met
 130 135 140
 Ala Met Asn Leu Ala Ile Ala Ser Lys Asn Cys Tyr Ala Gly Gly Gly
 145 150 155 160
 Leu Ile Ile Arg Arg Leu Tyr Leu His His Ala Thr Lys Arg His Leu
 165 170 175
 Ala Leu Leu Leu Leu Tyr Trp
 180

<210> 31077

<211> 324

<212> PRT

<213> A.fumigatus

<400> 31077

Gly Tyr Asp Pro His Pro Lys Gly Pro Pro Gly Asp Ala Asn Pro Gly
 1 5 10 15
 Lys Arg Lys Pro Ser Ala Lys Pro Lys Lys Gly Phe Gly His Arg Arg
 20 25 30
 Lys Lys Pro Tyr Ser Ile Ser Gly Pro Ser Gln Thr Pro Cys Lys Gly
 35 40 45
 His Ser Ser Asn Thr Arg Pro Pro Ile Ala Ser Asp Ala Ile Ser Lys
 50 55 60
 Lys Thr Ser Ser Pro Ser Phe Ser Gly Asp Leu Glu Asp Val Leu Leu
 65 70 75 80
 Ser Leu Ala Arg Gly Pro Leu Glu Gln Asp Val Ala Thr Leu Arg Gly
 85 90 95
 Ala Met Ser Gly Leu Gly Thr Asn Glu Asn Leu Leu Thr Asp Val Leu
 100 105 110
 Val Gly Arg Ser Asn Ala Asp Leu Arg Ala Ile Lys Tyr Ala Tyr Val
 115 120 125
 Ser Lys Tyr Gln Lys Ser Leu Val Glu Asp Ile Lys Ser Asp Leu Ser
 130 135 140
 Gly Lys Thr Glu Gln Phe Phe Val Met Leu Leu Asn Ala Thr Arg Pro
 145 150 155 160
 Glu Pro Gly Thr Tyr Phe Asp Ala Gln Ser Val Asp Ala Asp Val Arg
 165 170 175
 Glu Ile His Gln Ala Thr Gln Ala Arg Lys Gly Thr Asp Glu Ile Gly
 180 185 190
 Val Phe Ala Val Leu Leu Gly Ala Ser Asp Ala Lys Leu Val Ala Ile
 195 200 205
 Ala Gln Ala Phe Glu Ala Lys Tyr His Ile Ser Leu Glu Lys Val Ile

210		215		220
Lys Asp Glu Phe Ser Gly His Leu Glu Asp Ala Leu Leu Ser Met Leu				
225		230		240
Ser Lys Ala Lys Asp Pro Val Gly His Asp Val Glu Lys Leu Leu Lys				
	245		250	255
Cys Leu Pro Pro Val Glu Asn Gly Lys Ala Asp Val Lys Arg Leu Ile				
	260		265	270
Tyr Trp Val Val His Leu His Trp Asn Pro Pro His Phe Ala Ala Val				
	275		280	285
Lys Ala Arg Leu Lys Gln Lys Leu Gly His Asp Val Gly Asn His Phe				
	290		295	300
Arg Glu Ala Ile Ala Pro Gly Asp Phe Leu Thr Ala Met Arg Gln Val				
305		310		315
				320
Trp Asn Ser Ala				

<210> 31078

<211> 76

<212> PRT

<213> A.fumigatus

<400> 31078

Asp Lys Val Gly Pro Arg Leu His Gly Thr Thr Gly Ile Ala Ser Leu			
1	5	10	15
Cys Leu Asp Ser Asn Asn Thr Asp Leu Arg Ser Thr Pro Ile Val Phe			
	20	25	30
Met Lys His Ser Ile Met Met Leu Pro Thr Ser Ile Ser Leu Ile Lys			
	35	40	45
Val Phe Leu Ser Pro Gln Ile Ala Cys Thr Leu Val Pro Ala Thr Gln			
	50	55	60
Ile Ile Phe Thr Tyr Leu Leu Lys Trp Leu Cys Gly			
65	70	75	

<210> 31079

<211> 82

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (56)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31079

Val Lys Ile Leu Thr Glu Gly Leu Ala Ile Gly Tyr Thr Gly Met Gly			
1	5	10	15
Val Arg Cys His Asp Ala Pro Ser Gln Thr Ser Ile Ala Asn Asp Glu			
	20	25	30
Thr Ala Asn Ser Pro Tyr Val Arg Ser Asn Gly Glu Trp Ile Gly Arg			
	35	40	45
Ser Ile Leu Ser Gly Phe Phe Xaa Ala Pro Ile Glu Ala Leu Pro Glu			
	50	55	60
Val Thr Val Thr Asp Val Val Ser Ala Cys Gly Ser Asn Val His Ala			
65	70	75	80
Thr Tyr			

<210> 31080
 <211> 164
 <212> PRT
 <213> A.fumigatus

<400> 31080

```

Tyr Phe Thr His Glu Arg Gly Thr Tyr Met Gly Leu Tyr Ala Phe Phe
1           5           10           15
Leu Ala Gly Ser Asn Tyr Phe Ala Pro Val Ile Cys Gly Phe Ile Ala
          20           25           30
Gln Tyr Gln Gly Trp Gln Trp Val Phe Tyr Trp Pro Ala Val Phe Cys
          35           40           45
Ala Val Thr Ile Ala Phe Leu Phe Phe Phe Met Glu Glu Thr Asn Tyr
          50           55           60
Ala Arg Lys Cys Ala Glu Thr Thr Thr Val Glu Gly Ile Leu Glu Ser
65           70           75           80
Ser Thr Thr Pro Ser Lys Gln Gly Asp Gln Glu Lys Pro Leu Pro Ala
          85           90           95
Thr Gly Gln Pro Asp Gln Thr Glu Cys Gly Val Met Tyr Ser Lys Lys
          100          105          110
Thr Tyr Ile Gln Lys Leu Ser Ile Ile Gly Pro Arg Gln Pro Arg Asn
          115          120          125
Asn Met Phe Arg Arg Phe Tyr Gln Thr Leu Tyr Tyr Leu Ser Trp Pro
          130          135          140
Val Ile Phe Tyr Ala Gly Tyr Val Lys Arg Ser Leu Ile Phe Ile Gly
145          150          155          160
Asn Ile Arg Tyr

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<210> 31081
 <211> 123
 <212> PRT
 <213> A.fumigatus

<400> 31081

```

Arg Ala Ile His Ile Gln Thr Leu Leu Thr Arg Ser Arg Ser Leu Phe
1           5           10           15
Thr Gly Arg Phe Ser Asp Trp Leu Thr Ile Lys Leu Ala Arg Arg Asn
          20           25           30
Gly Gly Val Met Glu Ala Glu Gln Arg Leu Trp Pro Phe Leu Ala Cys
          35           40           45
Val Ile Ile Val Pro Gly Ser Leu Leu Leu Trp Gly Val Gly Ala Ala
          50           55           60
His Glu Val His Trp Phe Gly Leu Leu Val Ala Met Cys Leu Leu Ala
65           70           75           80
Leu Ala Ser Thr Cys Gly Val Thr Leu Ser Val Asn Tyr Leu Val Asp
          85           90           95
Ser Tyr Arg Glu Leu Ser Gly Asp Ala Met Ala Ser Val Ile Leu Val
          100          105          110
Arg Asn Thr Met Ser Phe Ala Met Gly Tyr Gly
          115          120

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<210> 31082
 <211> 85
 <212> PRT

<213> A.fumigatus

<400> 31082

```

Lys Gln His Ile Ala Ala His Arg Gln His Leu Thr Phe Cys Ser Cys
1          5          10          15
Phe Cys Leu Val Met Ala Pro Arg Gly Asp Gly Asp Ser Ile Pro Gly
          20          25          30
Thr Phe Thr Leu Val Asp Val Asp Gly Val Leu Ala Thr Arg His Leu
          35          40          45
Asp Arg Gly Asp Arg Asp Ile Val Leu Val Pro Glu Pro Ser Asn Asp
          50          55          60
Pro Asp Asp Pro Leu Asn Trp Ser Pro Arg Arg Lys Leu Leu Ser Thr
65          70          75          80
Ile Cys Val Ser Val
          85

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<210> 31083

<211> 98

<212> PRT

<213> A.fumigatus

<400> 31083

```

Val Asp Gly Arg Gly Cys Phe Asp Leu Glu Phe Ser Thr Lys Gln Leu
1          5          10          15
Ile Cys Ser Leu Met Ser Arg Tyr Thr Leu Phe Ala Gly Ile Ser Thr
          20          25          30
Ser Val Val Tyr Ser Val Leu Val Gln Leu Ser Glu Glu Thr Gly Val
          35          40          45
Ala Val Asp Thr Leu Asn Gln Gly Thr Gly Tyr Met Phe Leu Leu Ala
          50          55          60
Gly Trp Gly Leu Leu Phe Trp Gln Pro Phe Ala Leu Gln Tyr Gly Lys
65          70          75          80
Arg Leu Thr Tyr Ile Leu Ser Leu Val Gly Ile Leu Val Ser Leu Gln
          85          90          95
Ser Tyr

```

<210> 31084

<211> 409

<212> PRT

<213> A.fumigatus

<400> 31084

```

Phe Ile Val Ile Val Gln Ser Ile Val Asp Val Ser Ala Arg Asn Tyr
1          5          10          15
Ile Gly Gly Ala Phe Asn Arg His Val Asn Trp Leu Gly Arg Ala Phe
          20          25          30
Trp Arg Ala Trp Phe Asp Ala Asp Arg Val Ser Leu Glu Ala Ala Arg
          35          40          45
Arg Asp Tyr Leu Glu Tyr Arg Phe Gly Thr Val Ile Ser Ala Ser Glu
          50          55          60
Arg Asn Tyr Leu Leu Gly Gly Ile Pro Tyr Tyr Ile Phe Val Gly Arg
65          70          75          80
His Lys Asn Leu Ala Ser Asn Leu Ser Gly Gln Glu Thr Ile Glu Met
          85          90          95
Leu Asp Ala Ser Phe Thr Glu Ser Pro Tyr Leu Ser Pro Ala Asn His

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<210> 31085
<211> 139
<212> PRT
<213> A.fumigatus
```

Ser	Glu	Asn	Val	Ser	Val	Leu	Lys	Pro	Val	Leu	Glu	Cys	Leu	Ala	Gly
1				5					10					15	
Glu	Val	Ser	Ala	Glu	Thr	Arg	Asn	Glu	Glu	Phe	Pro	Glu	Phe	Trp	Val
			20				25						30		
Phe	Ser	Leu	Ala	Lys	Asp	Leu	Pro	Asp	Ile	Ala	Met	Thr	Lys	Gly	His
		35				40						45			
Glu	Thr	Ser	Asn	Leu	Glu	Phe	Lys	Gln	Met	Ile	Leu	Val	Arg	Ile	Gln
	50					55					60				
Val	Asp	Cys	Met	Asn	Ser	Ala	Trp	Thr	Leu	Leu	Lys	Val	Ile	Gln	Asn
65					70					75					80

11920

```

Ile Val Ser Gly Ala Gly Asn Gly Gln Asp Asn Ile Ile Pro Leu Asp
      85                      90                      95
Val Glu Lys Thr Met Ile His Thr Arg Ile Phe Pro Val Glu Gly Ile
      100                    105                    110
Asn Val Phe Ile Leu Glu Leu Arg Val Leu Gly Gln Gln Ile Ile Val
      115                    120                    125
Glu Asp Ala Ala Val Val Ile Leu Val Glu Gly
      130                    135

```

<210> 31086

<211> 94

<212> PRT

<213> A.fumigatus

<400> 31086

```

Pro Gln Glu Thr Leu Gly Lys Lys Ile Glu Ser Val Ile Ile Ser His
1      5      10      15
Ile Ile Asp Glu Ala Ser Leu Gly Leu Pro Asp Pro Ile Pro Glu Gly
      20      25      30
Gln Val Glu Ala Phe Ile Ser Asn Asn Leu Pro Pro Asn Ala Thr Glu
      35      40      45
Gln Thr Lys Arg Ile Ala Asn Leu Phe Lys Ser Leu Tyr Ala Asn Ser
      50      55      60
Thr Lys Lys Glu Met Leu Ser Ala Leu Tyr Asn Asp Ile Leu Tyr Thr
65      70      75      80
Cys Asn Leu His Ala Val Leu Lys Ala Tyr Leu Ser Pro Ala
      85      90

```

<210> 31087

<211> 73

<212> PRT

<213> A.fumigatus

<400> 31087

```

Leu Thr Asn Ser Ile Leu Lys Thr Pro Tyr Asn Leu Lys Gln Leu Lys
1      5      10      15
Lys Gln Glu Thr Ile Leu Lys Lys Leu Leu Arg Glu Tyr Ile Tyr Ser
      20      25      30
Pro Pro Thr Pro Thr Lys Ala Val Leu Gly Gln Ile Ile Lys Arg Cys
      35      40      45
Glu Ile Val Ile Asn Asn Thr Ala Leu Leu Ala Lys Glu Asn Tyr Asn
      50      55      60
Leu Tyr Thr Thr Ile His Lys Lys His Leu
65      70

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<210> 31088

<211> 61

<212> PRT

<213> A.fumigatus

<400> 31088

```

Asn Leu Ala Ala Ala Glu Ile Arg Gly Tyr Phe Lys Pro Leu Lys His
1      5      10      15
Asp Phe Ile Thr Lys Ser Ser Tyr Ser Cys Ala Ala Asp Ile Val Ile
      20      25      30
Thr Tyr Gly Leu Glu Tyr Gly Ser His Cys Ser Val Gly Val Pro Val

```

11921

	35		40		45
Lys	Gly	Ile	Val	Leu	Tyr
50			55		60

<210> 31089
 <211> 320
 <212> PRT
 <213> A.fumigatus

<400> 31089

Pro	Val	Tyr	Gly	Asn	Lys	Gln	Gly	Lys	Leu	Thr	Ile	Lys	Thr	Thr	Asp
1			5					10						15	
Met	Glu	Thr	Ile	Tyr	Asp	Met	Gly	Thr	Lys	Met	Ile	Asp	Ser	Met	Thr
	20						25					30			
Lys	Glu	Arg	Val	Met	Ala	Gly	Asp	Val	Ile	Ser	Ile	Asp	Lys	Ser	Ser
	35					40					45				
Gly	Lys	Ile	Thr	Lys	Leu	Gly	Arg	Ser	Tyr	Ala	Arg	Ser	Arg	Asp	Tyr
50					55					60					
Asp	Ala	Met	Gly	Ala	Asp	Thr	Lys	Phe	Val	Gln	Cys	Pro	Glu	Gly	Glu
65				70				75						80	
Leu	Gln	Val	Arg	Lys	Glu	Ile	Val	His	Thr	Val	Ser	Leu	His	Glu	Ile
		85					90						95		
Asp	Val	Ile	Asn	Ser	Arg	Thr	Gln	Gly	Phe	Leu	Ala	Leu	Phe	Ser	Gly
	100						105						110		
Asp	Thr	Gly	Glu	Ile	Arg	Ser	Glu	Val	Arg	Asp	Gln	Ile	Asn	Thr	Lys
	115						120					125			
Val	Ala	Glu	Trp	Lys	Glu	Glu	Gly	Lys	Ala	Glu	Ile	Ile	Pro	Gly	Val
	130				135					140					
Leu	Phe	Ile	Asp	Glu	Val	His	Met	Leu	Asp	Ile	Glu	Cys	Phe	Ser	Tyr
145				150				155						160	
Ile	Asn	Arg	Ala	Leu	Glu	Ala	Glu	Leu	Ala	Pro	Ile	Val	Ile	Met	Ala
		165						170					175		
Ser	Asn	Arg	Gly	Gln	Ala	Arg	Ile	Arg	Gly	Thr	Thr	Tyr	Thr	Ser	Pro
	180							185					190		
His	Gly	Leu	Pro	Leu	Asp	Phe	Leu	Asp	Arg	Val	Val	Ile	Val	Ser	Thr
	195						200					205			
Gln	Pro	Tyr	Ser	Gly	Asp	Glu	Ile	Arg	Gln	Ile	Leu	Ala	Ile	Arg	Ala
	210				215					220					
Gln	Glu	Glu	Glu	Ile	Asp	Leu	Ser	Pro	Asp	Ala	Leu	Ala	Leu	Leu	Thr
225				230					235					240	
Lys	Ile	Gly	Gln	Glu	Ser	Asn	Leu	Arg	Tyr	Ala	Ser	Asn	Ile	Ile	Thr
		245						250					255		
Thr	Ser	His	Leu	Leu	Ser	Gln	Lys	Arg	Lys	Ala	Lys	Glu	Val	Ser	Ile
	260						265					270			
Asp	Asp	Val	Gln	Arg	Ser	Tyr	Arg	Leu	Phe	Tyr	Asp	Pro	Ala	Arg	Ser
	275						280					285			
Val	Lys	Phe	Val	Asn	Ala	Tyr	Glu	Gln	Arg	Phe	Ile	Gly	Asp	Gln	Gly
	290				295						300				
Ala	Val	Asn	Phe	Ser	Ala	Pro	Ala	Asn	Gly	Asp	Ala	Met	Glu	Ile	Ser
305				310					315					320	

<210> 31090
 <211> 158
 <212> PRT
 <213> A.fumigatus

<400> 31090

Phe Ile Ser Gln Pro Ile Ser Thr Val Ala Glu Thr Lys Glu Leu Arg
 1 5 10 15
 Gly Leu Asn Leu Ile Ala Ala His Ser His Ile Arg Gly Leu Gly Val
 20 25 30
 Asp Ala Asp Ser Leu Gln Pro Arg Thr Ser Ser Gln Gly Leu Val Gly
 35 40 45
 Gln Glu Lys Ala Arg Lys Ala Ala Ala Val Ile Leu Gln Met Val Lys
 50 55 60
 Glu Gly Lys Ile Ala Gly Arg Ala Val Leu Ile Ala Gly Pro Pro Ser
 65 70 75 80
 Thr Gly Lys Thr Ala Ile Ala Met Gly Met Ala Gln Ser Leu Gly Ser
 85 90 95
 Asp Val Pro Phe Thr Met Leu Ala Ala Ser Glu Ile Phe Ser Met Glu
 100 105 110
 Met Ser Lys Thr Glu Ala Leu Thr Gln Ala Phe Arg Lys Ser Ile Gly
 115 120 125
 Val Arg Ile Lys Glu Glu Ser Glu Ile Ile Glu Gly Glu Val Val Glu
 130 135 140
 Ile Gln Val Asp Arg Ser Val Thr Gly Val Ser Ala Asp Ser
 145 150 155

<210> 31091

<211> 192

<212> PRT

<213> A.fumigatus

<400> 31091

Thr His Arg Gly Ser Phe Gln Pro Arg Gly Glu Asp Ala Asp Ala Leu
 1 5 10 15
 Lys Thr Leu Ile Thr His Leu Gln Arg Gly Glu Thr Ala Leu Glu Ala
 20 25 30
 Leu Ala Arg Ile Gly Lys Gly Ala Pro Lys Lys Pro Lys Trp Gln Ala
 35 40 45
 Lys Lys Lys Lys Asn Arg Ser Lys Gln Asn Gly Ala Gln Val Glu Asp
 50 55 60
 Ala Glu Met Thr Glu Asp Asp Pro Asn Glu Ala Ser Arg Lys Gln Ala
 65 70 75 80
 Ile Glu Thr Ile Thr Gly Ala Ala Asp Ile Leu Met Thr Arg Gly Gln
 85 90 95
 Thr Asp Ile Tyr Asp Ile Glu Arg Glu Met Leu Thr Arg Gln Tyr Arg
 100 105 110
 Gln Glu Thr Gly Glu Asp Trp Val Asp Pro Pro Leu Glu Ser Ala Ala
 115 120 125
 Pro Thr Ser Ala Glu Glu Glu Pro Ala Met Trp Gln Phe Arg Trp Ser
 130 135 140
 Asp Ala Arg Asp Gly Gly Val Glu His Gly Pro Tyr Asp Ser Gln Thr
 145 150 155 160
 Met Glu Ser Trp Lys Ser Ala Gly Tyr Phe Gly Asp Gly Val Glu Phe
 165 170 175
 Arg Lys Val Gly Asp Thr Gly Asp Trp Thr Ser Glu Ala Thr Phe Leu
 180 185 190

<210> 31092

<211> 138

<212> PRT

<213> A.fumigatus

<400> 31092

Ala Ala Gly Pro Val Val Thr Leu Ile Thr Ser Trp Ser Trp Lys Val
 1 5 10 15
 Thr Lys Pro Ser Ile Gly Ala Phe Ile Asn Ile Leu Ile Ile Thr Leu
 20 25 30
 Ser Val Ala Met Ala Val Ser Gly Glu Ile Arg Phe Ser Trp Leu Gly
 35 40 45
 Phe Gly Phe Gln Phe Ala Ser Leu Val Phe Asp Ala Asn Arg Leu Val
 50 55 60
 Met Val Gln Ile Leu Leu Ser Asp Ser Gly Gln Lys Met Asp Pro Leu
 65 70 75 80
 Val Ser Leu Tyr Tyr Phe Ala Pro Ala Cys Ala Val Met Thr Ser Leu
 85 90 95
 Val Ala Trp Gln Thr Glu Tyr Ala Ser Phe Glu Trp Ser Ser Val Ala
 100 105 110
 Gln Ala Gly Trp Thr Val Leu Ser Leu Ser Ala Val Met Gly Phe Met
 115 120 125
 Leu Asn Val Ser Ile Phe Leu Leu Val Ser
 130 135

<210> 31093

<211> 95

<212> PRT

<213> A.fumigatus

<400> 31093

Ser Asp Glu Lys Gln Met Leu Ser Leu Leu Thr Met Lys Ile Gly Lys
 1 5 10 15
 Thr Ser Gly Leu Ala Met Thr Leu Ile Ser Ile Pro Lys Asn Ile Leu
 20 25 30
 Leu Ile Ala Ile Ser Val Val Leu Trp His Thr Pro Ile Ser Leu Leu
 35 40 45
 Gln Ile Leu Gly Tyr Ser Ile Ala Leu Trp Ser Leu Leu Phe Tyr Ser
 50 55 60
 Ile Gly Trp Lys Thr Val Lys Ala Tyr Ile Asp Ala Leu Gly Val Trp
 65 70 75 80
 Ser Arg Lys Ser Asp Glu Asn Glu Val Leu Leu Ser Asp Arg Val
 85 90 95

<210> 31094

<211> 629

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (86), (138), (145)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31094

Gly Leu Phe Pro Pro Ile Arg Val Ser Phe Pro Ala Trp Phe Ala Glu
 1 5 10 15
 Ala Ala Phe Asn Ser Trp Glu Ala Arg Gln Phe Trp Leu Gly Val Leu
 20 25 30

Thr Cys Pro Gly Asn Pro Leu Phe Phe Lys Arg Pro Arg Asn Asn His
 35 40 45
 Gly Arg Arg Val Val Gly Leu Ser Leu Pro Leu Arg Ser Leu Pro Asp
 50 55 60
 Val Gly Lys Ser Cys Arg Pro Pro Tyr Asp Thr Phe Val Glu Val Phe
 65 70 75 80
 Ile Ile Thr Ser Gln Xaa Glu Ile Gln Tyr Tyr Phe Ser Leu Met Asn
 85 90 95
 Gln His Leu Pro Ile Glu Ser Gln Leu Met Ser Lys Leu Ala Asp Asn
 100 105 110
 Met Asn Ala Glu Ile Val Leu Gly Asn Ile Arg Asn Arg Asp Glu Gly
 115 120 125
 Val Glu Trp Leu Gly Tyr Thr Tyr Leu Xaa Val Arg Met Leu Arg Ser
 130 135 140
 Xaa Gly Leu Tyr Ser Val Gly Ala Asp Tyr Glu Asn Asp Asp Ala Leu
 145 150 155 160
 Glu Gln Lys Arg Val Asp Leu Val His Ser Ala Ala Val Ile Leu Glu
 165 170 175
 Arg Ala Gly Leu Val Lys Tyr Glu Lys Lys Thr Gly Arg Leu Gln Ser
 180 185 190
 Thr Glu Leu Gly Arg Ile Ala Ser His Tyr Tyr Ile Gly His Asn Ser
 195 200 205
 Met Leu Thr Tyr Ser Gln His Ile Gln Pro Ser Ile Ser Thr Ile Glu
 210 215 220
 Leu Phe Arg Ile Phe Ala Leu Ser Asp Glu Phe Lys Tyr Ile Pro Val
 225 230 235 240
 Arg Gln Asp Glu Lys Leu Glu Leu Ala Lys Leu Leu Gly Arg Val Pro
 245 250 255
 Val Pro Val Lys Glu Ser Ile Asp Glu Pro His Ser Lys Ile Asn Val
 260 265 270
 Leu Leu Gln Ala Tyr Ile Ser Arg Leu Lys Leu Glu Gly Leu Ala Leu
 275 280 285
 Met Ala Asp Met Val Tyr Val Thr Gln Ser Ala Gly Arg Ile Leu Arg
 290 295 300
 Ala Leu Phe Glu Ile Ser Leu Lys Lys Gly Trp Ser Ser Val Ala Lys
 305 310 315 320
 Thr Ala Leu Asp Leu Cys Lys Met Ala Glu Arg Arg Met Trp Pro Thr
 325 330 335
 Met Thr Pro Leu Arg Gln Phe Pro His Cys Pro Arg Asp Ile Leu Gln
 340 345 350
 Lys Ala Glu Arg Ile Asp Val Pro Trp Ala Ser Tyr Phe Asp Leu Asp
 355 360 365
 Pro Pro Arg Met Gly Glu Leu Leu Gly Met Pro Lys Ala Gly Arg Thr
 370 375 380
 Val Cys Asp Leu Val Ser Lys Phe Pro Arg Leu Glu Val Gln Ala Gln
 385 390 395 400
 Val Gln Pro Val Thr Arg Ser Leu Leu Arg Val Glu Leu Thr Ile Thr
 405 410 415
 Pro Asn Phe Val Trp Asp Asp Ala Leu His Gly Thr Ala Gln Asp Phe
 420 425 430
 Trp Ile Leu Val Glu Asp Cys Asp Gly Glu Glu Ile Leu Phe His Asp
 435 440 445
 Gln Phe Ile Leu Arg Lys Asp Tyr Ala Gln Ala Glu Met Asn Glu His
 450 455 460
 Leu Val Glu Phe Thr Val Pro Ile Thr Glu Pro Met Pro Pro Asn Tyr
 465 470 475 480

Phe Ile Ser Leu Val Ser Asp Arg Trp Met His Ser Glu Thr Lys Ile
 485 490 495
 Ala Val Ser Phe Gln Lys Leu Ile Leu Pro Glu Arg Phe Pro Pro His
 500 505 510
 Thr Pro Leu Leu Asp Met Gln Arg Ala Pro Val Lys Ala Leu Lys Arg
 515 520 525
 Glu Asp Tyr Gln Gln Leu Tyr Pro Glu Trp Gln Leu Phe Asn Lys Ile
 530 535 540
 Gln Ser Gln Thr Phe Lys Ser Leu Tyr Asp Thr Asp Asp Asn Val Phe
 545 550 555 560
 Leu Gly Ala Pro Thr Gly Ser Gly Lys Thr Val Cys Ala Glu Leu Ala
 565 570 575
 Leu Leu Arg His Trp Ala Thr Gly Lys Gly Gly Arg Thr Val Tyr Ile
 580 585 590
 Ala Pro Phe Gln Gln Leu Ile Asp His Arg His Ala Asp Trp Glu Lys
 595 600 605
 Arg Leu Gly Asn Leu Gly Gly Lys Asn Ile Val Gln Leu Thr Gly
 610 615 620
 Glu Thr Leu Pro Ile
 625

<210> 31095

<211> 99

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (6)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31095

Arg Pro Arg Ser Gly Xaa Glu Lys Val Arg Leu Leu Glu Tyr Leu Arg
 1 5 10 15
 Ser Tyr Ile Ala Ser Arg Leu Glu Arg Gly Glu Tyr Asp Ser Asp Ser
 20 25 30
 Asp Ser Asp Asp His Ala Ser Ala Ala Ala Ser Pro Val Ile Lys His
 35 40 45
 Asp Gly His Met Asp Gly Val Glu Ser Ser His Lys Pro Ile Thr Ala
 50 55 60
 Glu Glu Thr Ser Ala Pro Pro Ala Ala Lys Ala Glu Ser Asn His Gly
 65 70 75 80
 Val Met Tyr Pro Thr Leu His Gly Leu Asp Gly Asp Glu Asp Thr Lys
 85 90 95
 Met His His

<210> 31096

<211> 140

<212> PRT

<213> A.fumigatus

<400> 31096

Ser Gly Glu Asn Asp Asp Pro Leu Gly Arg Arg Trp Thr Leu Gln Arg
 1 5 10 15
 Leu Asn Arg Ser Arg Pro Arg Arg Gln Ala Pro Ser Ser Thr Ser Gly

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<210> 31097
<211> 355
<212> PRT
<213> A.fumigatus
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

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<210> 31098
<211> 167
<212> PRT
<213> A.fumigatus
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[illegible]

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<211> 94
<212> PRT
<213> A.fumigatus
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Thr	Pro	Leu	Gly	Ser	Val	Ser	Thr	Arg	Ser	Leu	Arg	Lys	Gly	Pro	Ser
1				5					10					15	
Asn	His	Leu	Pro	Gln	His	Phe	Met	His	Thr	Asp	Leu	Asp	Ser	Asn	Ile
			20					25					30		
Tyr	Leu	Lys	Val	Lys	Lys	Ala	Gly	Gly	Met	Lys	Ile	Thr	Phe	Gln	Thr
		35					40					45			
Pro	Pro	Lys	Asn	Leu	Asp	Glu	Lys	Met	Ile	Phe	Asn	Val	Leu	Arg	Asp
	50					55					60				

Tyr Lys Ile Leu Asn Cys Glu Val Leu Val Arg Asp Glu Asn Gly Thr
 65 70 75 80
 Leu Thr Pro Pro Ala Leu Cys Val Phe Val Gln Thr Ala Tyr
 85 90

<210> 31100

<211> 715

<212> PRT

<213> A.fumigatus

<400> 31100

Trp Thr Leu Ser Ala Leu Cys Leu Leu Val Arg Pro Leu His Leu Gly
 1 5 10 15
 Gln Val Leu Val Tyr Tyr Leu Arg Lys Ile Glu Gln Lys Asp Ser Pro
 20 25 30
 Ile Val Leu Gln Thr Pro Val Asp Ser Pro Phe Ala Ala Asp Ser Ser
 35 40 45
 Val Arg Ala Pro Ser Thr Arg Gln Ser Lys Arg Val Asn Phe Ser Pro
 50 55 60
 Trp Thr Lys Tyr Ile Lys Pro Pro Ser Phe Thr Asn Ser Ala Pro Arg
 65 70 75 80
 Leu Lys Ser Glu Leu Lys Glu Leu Pro Pro Ser Asn Glu Cys Lys Pro
 85 90 95
 Thr Lys Ser Ile Leu Lys Thr Thr Asn Ala His Pro Pro Ile Asp Thr
 100 105 110
 Thr Asp Ala Ala Pro Cys Thr Pro Glu Ser Phe Ala Met Leu Leu Asp
 115 120 125
 Ser Ile Thr Gln Gln Leu Ala Gly Glu Ser Ile Ser Ser Arg Leu Asp
 130 135 140
 Ala Tyr Met Gln Phe Phe Gly Ala Leu Arg Ala Tyr Glu Gly Leu Pro
 145 150 155 160
 Ser Glu Gln Glu Leu Gly Gln Lys Leu Gly Leu Ile Ser Gln Phe Ile
 165 170 175
 Gln Arg Asp Leu Ser Thr Asp Leu Gly Asp Asp Val Pro Leu Gly Thr
 180 185 190
 Asn Leu Val Ile Gln Ala Leu Lys Leu Ala Ala Ala Leu Ser Trp Asn
 195 200 205
 Ile Glu Ile Ala Ala His Leu Pro Asp Glu Phe Lys Val Phe Leu Val
 210 215 220
 Glu His Ser Ile Asn Ala Leu Glu Ser Ala Lys Ala Pro Lys Ser Val
 225 230 235 240
 Leu Thr His Tyr Met Ser Ile Leu Ser Thr Gln Asn Phe His Ser Lys
 245 250 255
 Ile Met Thr Asn Ala Arg Ile Ile Arg Leu Leu Thr Val Leu Gly Asp
 260 265 270
 Ile Thr Ser Arg Val Asn Gly Asn Ala Ile Val Phe Gln Arg Leu Ser
 275 280 285
 Ile Tyr Gln Arg Leu Leu Thr Gln Ser Lys Ser Ile Phe Val Ser Gln
 290 295 300
 Ser Gly Leu Trp Val Glu His Leu Leu Ser Gly Leu Leu His His Val
 305 310 315 320
 Lys Asp Thr Arg Ile Lys Ala Ile Ser Leu Gly Phe Gln Thr Ser Met
 325 330 335
 Ile Cys Gly Pro Asn Pro Ser Leu Ser Lys Ser Ile Arg Asp Leu Phe
 340 345 350
 Asp Arg Pro Leu Asp Asn Gly Arg Lys Leu Val Ser Glu Ile Cys Glu

355 360 365
 Arg Met Ser Arg Met Met Ala Asn Val Glu Ser Gly Val His Val Pro
 370 375 380
 Gln Val Trp Ser Ile Ile Val Leu Leu Leu Arg Ser Lys Arg Leu Ser
 385 390 395 400
 Ile Asp Gln Trp Glu His Phe Lys Glu Trp Val Leu Val Leu Gln Arg
 405 410 415
 Cys Phe Asn Cys Ser Glu Ser Ser Ile Lys Ala Gln Ala Ile Leu Gly
 420 425 430
 Trp Asn Arg Phe Val Tyr Val Val Ser Pro Ser Asp Thr Thr Ser Arg
 435 440 445
 Ser Met Leu Arg Met Leu Ser Lys Pro Ile Met Ser Gln Phe Glu Arg
 450 455 460
 Lys Lys Gln Glu Arg His Gly Ser Gln Pro Gly Gln Leu Ala Leu Cys
 465 470 475 480
 Ser Tyr His Asn Leu Tyr Tyr Ala Phe Arg Pro Ser Ala Thr Leu
 485 490 495
 Gln His Leu Asp Ile Val Trp Glu Glu Tyr Val Ala Gly Pro Ser Asn
 500 505 510
 Val Phe Ala Ser Phe Pro His Leu Asn Asp Arg Phe Cys His Ala Leu
 515 520 525
 Ser Asn Leu Leu Trp Ser Pro Gln Ala Lys Ile Trp Thr Glu Asn Lys
 530 535 540
 Val Asn Glu Ser Thr Lys Leu Glu Pro Glu Glu Leu Pro Ser Ile Asp
 545 550 555 560
 Cys Lys Trp Val Arg Ser Arg Ile Thr Ile Ile Leu Asn Val Phe Glu
 565 570 575
 Ala Ile Phe Arg Thr Ser Leu Trp Ala Asp Asp Leu Asp Lys Ser Asn
 580 585 590
 Ile Ala Ala Ala Trp Ile Ser Leu Ser Gln Ala Leu Ser Tyr Ala Ser
 595 600 605
 Ser Lys Glu Ile Thr Pro Ser Lys Glu Ser Met Gln Ala Val Ala Ser
 610 615 620
 Val Leu Gly His Leu Gln Arg Leu Trp Asn Ala Gly Pro Ser Ser Leu
 625 630 635 640
 Asn Ala Leu Gly Asp Glu Ser Met Asp Val Phe Phe Asp Arg Phe Arg
 645 650 655
 Phe Leu Ser Thr Thr Met Ile Ser Ser Leu Gly Gly Ile Pro Phe Thr
 660 665 670
 Glu Lys Leu Leu Leu Lys Thr Ala Asn Glu Thr Phe Gln Ala Ala Asn
 675 680 685
 Thr Pro Thr His His Pro Val Arg Ala Asn Thr Asn Leu Asp Ser Pro
 690 695 700
 Ile Leu His Leu Leu Arg Phe Ile Ser Asp Val
 705 710 715

<210> 31101

<211> 77

<212> PRT

<213> A.fumigatus

<400> 31101

Ala His Phe Leu Arg Ser Val Gly Val Arg Thr Pro Val Phe Ala Arg
 1 5 10 15
 Phe Ser Thr Val Thr Leu Gly Arg Glu Phe Pro Asp Glu Ala Arg Asn
 20 25 30

Pro Arg Gly Phe Ala Val Lys Phe Tyr Thr Gly Glu Gly Asn Tyr Asp
 35 40 45
 Ile Val Gly Leu Asn Phe Val Cys Leu Pro Lys Ser Ala Arg Lys Pro
 50 55 60
 Ala Thr Asn Ile Gly Asp Thr Ala Arg Val Leu Leu Ser
 65 70 75

<210> 31102
 <211> 61
 <212> PRT
 <213> A.fumigatus

<400> 31102
 Thr Leu Tyr Ala Cys Pro Ser Leu Arg Ala Ser Gln Arg Leu Thr Ser
 1 5 10 15
 Ala Ile Gln Pro Val Phe Phe Cys Arg Asp Pro Ile Gln Gly Pro Asp
 20 25 30
 Val Ile Arg Ser Gln Tyr Arg Ile Pro Gln Asn Phe Leu Leu Asp His
 35 40 45
 Asn Ser Leu Phe Asp Leu Leu Ala Asn Thr Pro Glu Gly
 50 55 60

<210> 31103
 <211> 92
 <212> PRT
 <213> A.fumigatus

<400> 31103
 His Arg Arg Tyr Ser Pro Cys Ser Ser Val Val Ile Pro Phe Lys Ala
 1 5 10 15
 Pro Met Leu Phe Ala Pro Ser Ile Gly Phe Arg Arg Thr Ser Cys Trp
 20 25 30
 Thr Thr Thr Pro Cys Ser Ile Cys Ser Gln Ile Leu Pro Arg Gly Glu
 35 40 45
 Arg Ala Met Ala Ile Ile Glu Thr Gln Thr Leu Thr Asp Asn Arg Asn
 50 55 60
 His Ala Gly Met Met Phe Phe Ser Asp His Gly Thr Pro Val Gly Trp
 65 70 75 80
 Arg Asn Leu Arg Gly Tyr Gly Cys His Thr Phe Lys
 85 90

<210> 31104
 <211> 78
 <212> PRT
 <213> A.fumigatus

<400> 31104
 Val Glu Arg Ser Tyr Ser Ala Leu Tyr Ile Leu Thr Thr Ser Pro Gly
 1 5 10 15
 Leu Thr Lys Gly Glu Asn Leu Cys Ile Ser Asn Thr Asn Phe Ile Ala
 20 25 30
 Asp Arg Gly Gln Lys Gln Ser Thr Ala Asp Glu Ala Ile Gln Met Cys
 35 40 45
 Gly Glu Asp Pro Asp Phe Ser Lys Arg Asp Leu Tyr Gln Ala Ile Glu
 50 55 60
 Lys Gly Glu Lys Ile Ser Trp Thr Ala His Val Gln Ile Met

65

70

75

<210> 31105
 <211> 108
 <212> PRT
 <213> A.fumigatus

<400> 31105
 Asp Arg Thr Leu Thr Gly Ala Ser His Asn Glu Thr Lys Ile Leu Ser
 1 5 10 15
 Glu Thr Gly His Gly Gly Gln Thr Pro Asp Leu Asp Gly Asp Glu Glu
 20 25 30
 Asp Gly Tyr Asp Glu Val Ile Tyr Pro Val Asp Phe Arg Gln Ala Gly
 35 40 45
 His Ile Val Asp Asp Glu Met His Arg Ile Met Val Arg Pro Leu Arg
 50 55 60
 Pro Gly Val Arg Leu Thr Ala Ile Phe Asp Ser Cys His Ser Gly Ser
 65 70 75 80
 Ala Leu Asp Leu Pro Tyr Ile Tyr Ser Thr Gln Gly Ile Leu Lys Glu
 85 90 95
 Pro Asn Leu Ala Lys Glu Gly Leu His Pro Gly Arg
 100 105

<210> 31106
 <211> 278
 <212> PRT
 <213> A.fumigatus

<400> 31106
 Glu Ser Leu Lys Val Phe His Trp Cys Trp Lys Val Ser Leu Thr Asp
 1 5 10 15
 Arg Ser Lys Asp Lys Cys Arg Thr Ile Thr Asn Asn Leu Pro Thr
 20 25 30
 Ala Ala Val Thr Pro Ala Lys Arg Thr Val Ser Asn Ile Leu Leu Arg
 35 40 45
 Ile Leu Thr Gly Met Ala Ser Pro Pro Leu Ser Leu Val Thr Ala Arg
 50 55 60
 Leu Leu His Thr Thr Val Thr Val Tyr Val Leu Ile Ser Glu Asp Asn
 65 70 75 80
 Cys Glu Gln Lys Lys Met Gln Val Trp Leu Thr Leu Tyr Ala Ala Thr
 85 90 95
 Ala Val Arg Ile Arg Pro Ala Ala Ala Tyr Trp Lys Cys Gly Val
 100 105 110
 Trp Trp Lys Thr Ala Trp Tyr Val Ile Ala Phe Gly Ala Gly Arg Thr
 115 120 125
 Ala Phe Cys Phe Gly Lys Cys Gln Tyr Ala Ala Ala Asp Ile Cys Asn
 130 135 140
 Thr Gly Met Asn Gln Tyr Gln Asn Thr Tyr Ser His Gly His Gln Gly
 145 150 155 160
 Gly Pro Pro Pro Pro Thr Asp Pro Val Ala Phe Gly His Gly Ala
 165 170 175
 Pro Gln Gly Tyr Ser Phe Gln Tyr Ser Arg Cys Thr Gly Lys Arg Lys
 180 185 190
 Ala Leu Leu Ile Gly Ile Asn Tyr Phe Gly Gln Lys Gly Gln Leu Arg
 195 200 205
 Gly Cys Ile Asn Asp Val Lys Asn Met Ser Thr Tyr Leu Asn Gln Asn

210 215 220
 Phe Gly Tyr Ala Arg Glu Asp Met Val Leu Leu Thr Asp Asp Gln Gln
 225 230 235 240
 Asn Pro Met Ser Gln Pro Thr Lys Ala Asn Ile Leu Arg Ala Met His
 245 250 255
 Trp Leu Val Lys Asp Ala Gln Pro Asn Asp Ser Leu Phe Phe His Tyr
 260 265 270
 Ser Gly Glu Thr Val Leu
 275

<210> 31107
 <211> 177
 <212> PRT
 <213> A.fumigatus

<400> 31107
 Thr Gln Leu Glu Val Leu Arg Leu Tyr Pro Pro Val Val Thr Val Pro
 1 5 10 15
 Lys Ser Thr Ser Glu Thr Pro Ser Pro Leu Thr Tyr Gln Gly Lys Gln
 20 25 30
 Tyr Val Leu Pro Pro Arg Val Asn Ile Asn Leu Asn Thr Asn Cys Leu
 35 40 45
 His Tyr Ser Glu Gln Tyr Trp Gly Pro Asp Val Ala Ile Phe Tyr Pro
 50 55 60
 Gln Arg Trp Asp Ala Arg Asn Gln Asn Ser Phe Leu Ala Lys Asn Ala
 65 70 75 80
 Ser Thr Gln Gly Leu Ala Gly Pro Gly Leu Glu Phe Pro Thr Val His
 85 90 95
 Lys Pro Val Arg Gly Ala Phe Ile Pro Phe Ser Asp Gly Phe Arg Ala
 100 105 110
 Cys Leu Gly Lys Lys Phe Ala Gln Val Glu Phe Ile Ala Ala Leu Ser
 115 120 125
 Ala Leu Ser Arg Asn Tyr Lys Val Glu Leu Ala Asp Ser Pro Glu
 130 135 140
 Gly Arg Asn Asp Ala Glu Arg Val Leu Arg Glu Ser Thr Ser Val Leu
 145 150 155 160
 Thr Leu Ser Met Arg Glu Asp Val Pro Ile Arg Phe Gln Arg Arg Lys
 165 170 175
 Asp

<210> 31108
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 31108
 Ala His Leu Thr Ala Gly Met Glu Thr Asn Arg Thr Glu Asp Phe Pro
 1 5 10 15
 Ser His Trp Lys Ala Thr Leu Leu Gly Glu Ala Phe Trp Lys Asp Ala
 20 25 30
 Glu Arg Phe Asn Gln Pro Ile Asn Asp Ser Ile Glu Ala Ser Lys Leu
 35 40 45
 Leu Leu Leu Leu Ala Tyr Thr Cys Pro Ile Thr Ala Thr Phe Val Leu
 50 55 60
 Thr Met Asn Ala His Val Leu Ser Thr

65

70

<210> 31109
 <211> 152
 <212> PRT
 <213> A.fumigatus

<400> 31109
 Lys Arg Ser Cys Cys Pro Gln Val Ser Ser Cys Ala Gly Phe Leu Lys
 1 5 10 15
 Leu Pro Arg Gln Pro Glu Ser Val Thr Ser Thr Tyr Phe Arg Pro Ser
 20 25 30
 Ile Arg His His Asn Tyr Ile Arg Met Ser Thr Phe Phe Tyr Gly His
 35 40 45
 His Gln Gln His His His Gln Gly Ala Thr Ser His Met Pro Ser Ser
 50 55 60
 Asn Asn His His Asn Gly Arg Ser Arg Arg Gly Pro Lys Met Ala Ser
 65 70 75 80
 Gln Asn Ala Gln Arg Gln Phe Arg Gly Val Lys Ser Met Arg Glu Leu
 85 90 95
 Ala Glu Ala Pro Ala Val Thr Ala Phe Arg Ala Arg Phe Glu Ala Gly
 100 105 110
 Arg Ser Phe Asp Leu Asp Asp Asp Leu Glu Phe Cys Pro Gly Leu Leu
 115 120 125
 Thr Glu Asp Asp Val Cys Phe Asp Ser Pro Val Phe Gly Pro Pro Val
 130 135 140
 Pro Ser Arg Tyr Trp Pro Ser Ala
 145 150

<210> 31110
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 31110
 Leu Val Leu Val Tyr Glu Gly Leu Ala Met Gln Glu Ile Val Pro Pro
 1 5 10 15
 Asp Phe Leu Tyr Val Leu Gly Ala Thr Arg Ser Asn Asp Phe Gln Asp
 20 25 30
 Ala Thr Leu Glu Leu Val Ala Arg Ser Asp Ala Asp Asp Asp Gln Leu
 35 40 45
 Glu Glu Gly Thr Ser Asp Cys Ile Trp Glu Leu Arg His Val
 50 55 60

<210> 31111
 <211> 193
 <212> PRT
 <213> A.fumigatus

<400> 31111
 Thr Gly Cys His Arg Asp Val Leu Ser Ser Leu Asp Leu Ile Gly Val
 1 5 10 15
 Phe Leu Ser Ser Val Ser Pro Arg Glu Asp Phe Leu Leu Ser Glu Leu
 20 25 30
 Ser Val Val Ile Lys Val Gln Leu Gly Val His Ser Gln Asn Leu Val
 35 40 45

11934

Val Gly Gly Leu Arg Gln Arg Val Asn Leu Asn Leu Ser Ser Val Leu
 50 55 60
 Leu His Glu Asp Leu Val Gln Val Leu Asn Gly Cys Leu Gly Ile Leu
 65 70 75 80
 Asp Ala Leu Leu Arg Glu Ala Lys Ile Gly Ser Asn Leu Ala Gly Asn
 85 90 95
 Val Ile Ser His Ala Asn Leu Asp Val Asn Arg Ser Arg His Asp Ser
 100 105 110
 Leu Arg Val Phe Leu Gly Asp Cys Leu Asn Ile His Thr Ala Leu Arg
 115 120 125
 Arg Gly Asn Asn Asp Gly Gly Leu Ser Cys Ala Val His Glu Asp Gly
 130 135 140
 Lys Ile Glu Phe Thr Thr Ser Glu Leu Ala Leu Ala Asn Val Asp Ser
 145 150 155 160
 Val Ala Lys Ala Thr Ser Ser Thr Ser Leu Leu Gly Asp Glu Leu Val
 165 170 175
 Ser Asp His Leu Ala Ser Glu His Leu Gly Leu Gly Trp Ala Gly Glu
 180 185 190
 Lys

<210> 31112
 <211> 213
 <212> PRT
 <213> A.fumigatus

<400> 31112
 Val Ile Pro Leu Lys Ser Ser Leu Phe Ser Leu Arg His Phe Ser Leu
 1 5 10 15
 Leu Thr Leu Phe Leu Ser Ser Pro Thr Glu Ala Lys Met Phe Ala Ser
 20 25 30
 Gln Met Ile Gly His Lys Leu Ile Thr Lys Gln Thr Gly Ala Ala Gly
 35 40 45
 Arg Leu Cys Asn Ala Val Tyr Ile Cys Glu Arg Lys Phe Ala Arg Arg
 50 55 60
 Glu Phe Tyr Leu Ala Val Leu Met Asp Arg Ala Thr Gln Thr Pro Val
 65 70 75 80
 Ile Val Ala Ser Ser Gln Gly Gly Met Asp Ile Glu Ala Val Ala Lys
 85 90 95
 Glu His Pro Glu Ala Ile Met Thr Thr Pro Ile Asp Ile Lys Val Gly
 100 105 110
 Val Thr Asp Asp Ile Ala Arg Lys Ile Ala Thr Asp Leu Gly Phe Ser
 115 120 125
 Glu Gln Cys Ile Glu Asp Ala Lys Thr Thr Ile Gln Asn Leu Tyr Lys
 130 135 140
 Val Phe Met Glu Lys Asp Ala Thr Gln Ile Glu Ile Asn Pro Leu Ser
 145 150 155 160
 Glu Thr Ser Asp His Gln Val Leu Ala Met Asp Ala Lys Leu Asn Phe
 165 170 175
 Asp Asp Asn Ala Glu Phe Arg Gln Lys Glu Val Phe Ser Trp Arg Asp
 180 185 190
 Thr Thr Gln Glu Asp Ala Asp Glu Val Lys Ala Ala Glu Tyr Val Pro
 195 200 205
 Met Ala Pro Ser Leu
 210

<210> 31113
 <211> 92
 <212> PRT
 <213> A.fumigatus

<400> 31113
 Gln His Leu Arg Tyr Cys Pro His Ala Asp Arg Phe Leu Val Asn Gly
 1 5 10 15
 Ala Gly Leu Ala Met Ala Thr Met Asp Ile Ile Lys Leu Asn Gly Gly
 20 25 30
 Asn Pro Ala Asn Phe Leu Asp Val Gly Gly Gly Ala Thr Pro Ala Ala
 35 40 45
 Ile Lys Ser Ala Phe Glu Leu Ile Thr Ser Asp Pro Lys Val Thr Ala
 50 55 60
 Ile Phe Val Asn Ile Phe Gly Gly Ile Val Arg Cys Asp Ala Ile Ala
 65 70 75 80
 Arg Ser Ser Pro Arg Glu Ala Pro Ile Arg Val Lys
 85 90

<210> 31114
 <211> 155
 <212> PRT
 <213> A.fumigatus

<400> 31114
 Arg Val Gly Ser Val Phe Glu Arg Arg Leu Ile Glu Ala Tyr Ile Ala
 1 5 10 15
 Glu Asn Gly Lys Asp Pro Val Asn Gly Glu Glu Leu Ser Val Asp Glu
 20 25 30
 Leu Ile Glu Val Lys Ser Gln Arg Val Val Arg Pro Arg Pro Thr
 35 40 45
 Leu Thr Ser Ile Pro Ser Leu Leu Ser Val Phe Gln Glu Glu Trp Asp
 50 55 60
 Ala Leu Ala Leu Glu Thr Tyr Thr Leu Arg Gln Thr Leu Ala Gln Thr
 65 70 75 80
 Arg Gln Glu Leu Ser Ala Ala Leu Tyr Gln His Asp Ala Ala Val Arg
 85 90 95
 Val Ile Ala Arg Leu Thr Lys Glu Arg Asp Glu Ala Arg Asp Ala Leu
 100 105 110
 Ser Lys Val Thr Val Ser Ala Gly Arg Ala Gly Gly Glu Glu Ala Met
 115 120 125
 Gln Val Asp Ser Thr Gly Leu Pro Asp Ala Val Leu Ala Arg Ile Glu
 130 135 140
 Ser Thr Gln Val Ser Tyr Val Thr Trp Leu Ser
 145 150 155

<210> 31115
 <211> 178
 <212> PRT
 <213> A.fumigatus

<400> 31115
 Phe Val Ile Leu Trp Leu Leu Thr Ser Pro Arg Leu Ser Lys Thr Arg
 1 5 10 15
 Arg Lys Arg Pro Ile Pro Glu Gly Trp Ala Thr Ser Asp Ala Leu Ser
 20 25 30

11936

Thr Tyr Lys Pro Thr Glu Thr Ser Lys Pro Leu Cys Gln Gly Gly Lys
 35 40 45
 Ala Leu Ala Val Asn Ala Ala Gly Glu Met Ala Leu Val Gly Gly Ala
 50 55 60
 Asp Gly Thr Val Gly Val Tyr Ser Leu Ser Glu Lys Arg Val Val Gly
 65 70 75 80
 Asn Leu His Thr Ser Gly Pro Val Thr Ser Ala Val Trp Ala Gly Asp
 85 90 95
 Lys Ala Val Ile Ala Ser Ser Thr Gly Ser Ile Gln Val Phe Glu Asp
 100 105 110
 Gly Lys Glu Leu Ala Asn Phe Ala Ser His Ala Gly Ser Ala Thr Asp
 115 120 125
 Leu Ala Leu His Ala Thr Gly Asp Ile Val Gly Ser Val Gly Val Asp
 130 135 140
 Lys Ser Tyr Val Leu Tyr Asp Leu Thr Thr Asn Ser Val Ile Thr Gln
 145 150 155 160
 Ile Phe Thr Asp Ser Cys Lys Gln Gly Leu Asn Arg Phe Val Cys Asn
 165 170 175
 Leu Cys

<210> 31116
 <211> 162
 <212> PRT
 <213> A.fumigatus

<400> 31116
 Phe Leu Pro Ser Pro Leu Ala Leu His Thr Val Ala Phe His Pro Asp
 1 5 10 15
 Gly His Leu Ile Ala Ala Gly Gly Ala Asp Gly Gln Ile Lys Ile Phe
 20 25 30
 Asp Val Lys Ser Gly Thr Ala Ala Asn Tyr Ala Met Ser Gly Pro
 35 40 45
 Val Lys Cys Leu Tyr Phe Ser Glu Asn Gly Thr Phe Leu Ala Ala Val
 50 55 60
 Ala Asp Asn Ser Thr Val Leu Ser Ile Trp Asp Leu Arg Ser Ser Lys
 65 70 75 80
 Glu Ile Lys Val Leu Glu Thr Gly Ser Gln Ile Asp Ser Ile Cys Trp
 85 90 95
 Asp Tyr Thr Gly Gln Phe Leu Leu Thr Gly Gly Pro Ser Gly Val Thr
 100 105 110
 Val Gln Gln Tyr Ser Lys Ala Ser Lys Glu Trp Ser Glu Pro Leu Arg
 115 120 125
 Ser Ala Val Pro Ala Val Ala Val Ala Trp Gly Ser Ala Ala Gln Ser
 130 135 140
 Ile Val Val Leu Asn Ser Glu Gly Gly Val Thr Val Leu Thr Ala Gln
 145 150 155 160
 Glu Ser

<210> 31117
 <211> 141
 <212> PRT
 <213> A.fumigatus

<400> 31117

Asp Lys Tyr Thr Asp Ile Thr Leu Asn Arg Phe Arg Thr Ser Leu Cys
 1 5 10 15
 His Ile Phe Leu Ser Ser Ile Leu Leu Leu Leu Leu Asp Ser Cys
 20 25 30
 Ser Val Pro Ile Thr Lys Ser Ser Arg Trp Leu Phe Phe Ile Gly Leu
 35 40 45
 Pro Gln Leu Ser Leu Leu Ser Arg Ile Gln Tyr Asn Val Asn His Thr
 50 55 60
 Leu Lys Gly Met Ser Phe Ser Ser Gly Ala Leu Arg Ser Ser Ser Ile
 65 70 75 80
 Ser Thr Arg Val Gln Leu Leu Ser Ile Leu His Pro Val Arg Ser Ser
 85 90 95
 Leu Gly Pro His His Asn Tyr His His His His Gln Gln Pro Gln Tyr
 100 105 110
 His Arg Arg Pro Tyr Ser Ser Ser Ser Lys Pro Asp Ser Pro Pro
 115 120 125
 Pro Ser Ser Ser Ser Ser Ser Ala Ser Ser Gly Val
 130 135 140

<210> 31118

<211> 498

<212> PRT

<213> A.fumigatus

<400> 31118

Val Leu Ser Val Leu Lys Leu Ser Phe Leu Lys Thr Leu His Leu Leu
 1 5 10 15
 Leu Pro Leu Leu Leu Pro Tyr Thr Leu Ser Pro Phe Ser Tyr His Thr
 20 25 30
 Ser Pro Ser Ala Tyr Gln Arg Leu Ile Ile Ser Thr Cys Leu Asn Gln
 35 40 45
 Ser Gly Glu Ile Gln Ala Ser Lys Glu Thr Gly Gly Ser Tyr Leu Val
 50 55 60
 Glu Glu Glu Ala Ala Asp Pro Leu Asn Pro Thr Ser Ile His Pro Ile
 65 70 75 80
 His Lys Thr Thr Thr Pro Val Leu Gln Gln Gly Asp Ser Asn Leu Val
 85 90 95
 Ser Val Glu Leu Pro Ser Arg Ser Lys Gln Phe Arg Phe Tyr Ser Arg
 100 105 110
 Leu Leu Arg His Leu Val Ala Glu Val Asp Thr Gly Met Phe Ser Pro
 115 120 125
 Glu Asp Glu Ser Ala Ile Ser Met Tyr Ser Ser Ala Val Leu Thr Arg
 130 135 140
 Leu Ser Ala Ile Gln Leu Thr Lys Asn Thr Glu Gln Lys Pro Gly Asp
 145 150 155 160
 Ser Gln Glu Pro Gly Ile Met Ser Thr Gly Asn Val Asn Ala Ser Val
 165 170 175
 Ser Lys Gly Leu Asp Ser Lys Thr Ser Asn Thr Phe Ser Asn Ala Tyr
 180 185 190
 Gln Thr Gly Ser Ser Asn Cys Glu Gly Glu Gly Asn Ile Phe Thr Lys
 195 200 205
 Cys Glu Asn Pro Leu Val Pro Arg Leu Ser Cys Gly Gln Thr Ala Ser
 210 215 220
 Asn Asn Tyr Leu Ala Tyr His Ser Ser Ser Phe Lys Pro Arg Leu Glu
 225 230 235 240
 Glu Gly Leu Val Leu Ser Pro Gln Ser Leu Gln Leu Val Pro Thr Lys

245 250 255
 Lys Ser Phe Tyr Gln Gly Gln Val Arg Asn Ala His Ala Met Val Lys
 260 265 270
 Asp Thr Arg Pro Thr Lys Leu Ser Ala Phe Gln Arg Leu Pro Gly Glu
 275 280 285
 Leu Arg Trp Arg Ile Tyr Asp Leu Val Phe Asp Val His Arg Val Glu
 290 295 300
 Val Leu Arg Leu Arg Asp Lys Asn Pro Glu Asn Asn Ile Lys Arg Val
 305 310 315 320
 His Tyr Arg Leu Tyr His Arg Gln Leu Arg Pro Arg Asp Pro Arg Thr
 325 330 335
 His Val Ala Pro Ser Asn Glu Gly Arg Phe Thr Cys Ala Pro Leu Pro
 340 345 350
 Ile Ala Leu Leu Ile Thr Cys Arg Ser Ile Tyr Arg Asp Thr Leu Cys
 355 360 365
 Leu Phe Tyr Ser Arg Met Gln Phe Ile Phe Asn Thr Thr Arg Thr Val
 370 375 380
 Met Arg Phe Leu Lys Ile Thr Ser Lys Glu Ala Gln Met Ala Ile Gln
 385 390 395 400
 His Ile Glu Leu Asn His Thr Met Tyr Ser Glu Pro Ala Leu Leu Asn
 405 410 415
 Phe Arg Trp Tyr Lys Cys Met Ser Asp Met Ser Trp Tyr Asn Ala Cys
 420 425 430
 Asp Asp Leu Thr Val Tyr Cys Lys Ser Leu Arg Val Leu His Ile Ser
 435 440 445
 Met Asn Ile Arg Asp Trp Pro Ile Ser Leu Gln Val Gly Glu Arg Trp
 450 455 460
 Ser Leu Pro Leu Leu Ala Phe Ala Arg Tyr Gly Pro Arg Leu Asp Trp
 465 470 475 480
 Val Asp Ile Arg Pro Gln Met Phe Phe Gln Lys Thr Glu Glu Gln Tyr
 485 490 495
 Leu Glu

<210> 31119

<211> 514

<212> PRT

<213> A.fumigatus

<400> 31119

Arg Thr Arg Glu Lys Phe Ala Asn Asn Asn Pro Arg Ser Ala His Ala
 1 5 10 15
 Gln Asn Ala Phe Tyr Gln Thr Leu Leu Arg Ala Asn Met Pro Ala Ile
 20 25 30
 Ile Val Glu Arg Tyr Arg Ser Gly Gln Phe Ala Ser Asn Ala Leu Ser
 35 40 45
 Glu Ala Ile Tyr Leu Lys Ala Leu Gln Arg Val Gly Gly Ala Asp Ser
 50 55 60
 Ala Thr Ala Ala Pro Val Gln Ser Gln Asn Gln His Leu Thr Pro Asp
 65 70 75 80
 Gln Leu Gln Ala Val Gly Gln Ala Val Ala Ala Arg Asn His Gly Ser
 85 90 95
 Gln Ile Gly Leu Ala Thr Lys Gln Ser Gly Thr Gly Ala Lys Asp Asn
 100 105 110
 Pro Leu His Val Val Val Glu Glu Ser Leu Gly Ser Ser Val Phe Arg
 115 120 125

Trp Val Lys Phe Leu Leu Val Phe Gly Phe Phe Thr Tyr Ile Ser Leu
 130 135 140
 Val Val Ile Thr Ile Leu Val Glu Thr Thr Gly Val Leu Lys Asn Ile
 145 150 155 160
 Lys Gly Pro Gln Ser Asn Glu Ala Gln Pro Gln Gln Gln Thr Val Arg
 165 170 175
 Phe Ser Asp Val His Gly Cys Asp Glu Ala Lys Glu Glu Leu Gln Glu
 180 185 190
 Leu Val Glu Phe Leu Leu Asn Pro Glu Arg Phe Ser Ser Leu Gly Gly
 195 200 205
 Lys Leu Pro Lys Gly Val Leu Leu Val Gly Pro Pro Gly Thr Gly Lys
 210 215 220
 Thr Leu Leu Ala Arg Ala Val Ala Gly Glu Ala Gly Val Pro Phe Phe
 225 230 235 240
 Tyr Met Ser Gly Ser Glu Phe Asp Glu Val Tyr Val Gly Val Gly Ala
 245 250 255
 Lys Arg Val Arg Glu Leu Phe Ala Gln Ala Arg Ser Lys Ser Pro Ala
 260 265 270
 Ile Ile Phe Ile Asp Glu Leu Asp Ala Ile Gly Ala Lys Arg Asn Glu
 275 280 285
 Arg Asp Ala Ala Tyr Val Lys Gln Thr Leu Asn Gln Leu Leu Thr Glu
 290 295 300
 Leu Asp Gly Phe Ser Gln Thr Ser Gly Val Ile Ile Ile Ala Ala Thr
 305 310 315 320
 Asn Phe Pro Gln Leu Leu Asp Lys Ala Leu Thr Arg Pro Gly Arg Phe
 325 330 335
 Asp Arg Lys Val Val Val Asp Leu Pro Asp Val Arg Gly Arg Met Asp
 340 345 350
 Ile Leu Lys His His Leu Lys Asn Ile Lys Ile Ser Thr Asp Val Asp
 355 360 365
 Val Ala Val Leu Ala Arg Gly Thr Pro Gly Phe Ser Gly Ala Asp Leu
 370 375 380
 Glu Asn Leu Val Asn Gln Ala Ala Ile Tyr Ala Ser Arg Asn Lys Lys
 385 390 395 400
 Pro Lys Val Gly Pro Lys Asp Leu Asp Trp Ala Lys Asp Lys Ile Met
 405 410 415
 Met Gly Ala Glu Ala Arg Ser Arg Ile Ile Gln Asp Lys Asp Lys Leu
 420 425 430
 Leu Thr Ala Tyr His Glu Ala Gly His Ala Leu Val Ala Tyr Phe Ser
 435 440 445
 Pro Ser Ser Thr Pro Leu Tyr Lys Ile Thr Ile Val Pro Arg Gly Met
 450 455 460
 Ala Leu Gly Val Thr His Phe Leu Pro Glu Met Asp Met Val Ser Arg
 465 470 475 480
 Asn Tyr Thr Glu Tyr Leu Ser Asp Ile Asp Val Ser Met Gly Arg Lys
 485 490 495
 Ser Asn Glu Glu Leu Val Ser Gly Leu Thr Gly Tyr Lys Trp Asp Phe
 500 505 510
 Arg Arg

<210> 31120

<211> 65

<212> PRT

<213> A.fumigatus

<400> 31120

Leu Leu Arg Pro Ser Ala Ala Leu Thr Arg Asp Asn Tyr Gly Phe Pro
 1 5 10 15
 Ser Pro Gly Leu Lys Thr Gly Lys Gly Pro His Ile Ser Cys Ala Ser
 20 25 30
 Tyr Ala Ile Tyr Ser Asp Phe Pro Phe Ser Thr Glu Ser Cys Gly Arg
 35 40 45
 His Phe Arg Ser Leu Ala Ile Asp Val Lys Ala Ile Lys Cys Ala Leu
 50 55 60
 Gly
 65

<210> 31121

<211> 245

<212> PRT

<213> A.fumigatus

<400> 31121

Gln Asp Phe Glu Ser Leu Arg Ile Asp Leu Pro Pro Lys Ile Pro Leu
 1 5 10 15
 Val Thr Cys Gln Ala Arg Asn Gln Leu Phe Val Ala Phe Ser Ala His
 20 25 30
 Gly Asp Val Asp Ile Gly Gln Ile Leu Arg Val Ile Pro Gly Asn His
 35 40 45
 Val His Leu Arg Gln Lys Val Arg His Ser Gln Arg His Ser Ala Gly
 50 55 60
 Asn Asp Gly Asp Phe Val Gln Trp Arg Arg Arg Arg Glu Ile Ser
 65 70 75 80
 Asn Glu Arg Met Thr Cys Leu Met Val Gly Ser Gln Lys Leu Val Leu
 85 90 95
 Ile Leu Asn Asn Pro Ala Ala Ser Leu Cys Ala His His Asp Leu Val
 100 105 110
 Phe Gly Pro Val Glu Val Leu Gly Ser Asn Leu Arg Leu Leu Val Ser
 115 120 125
 Ala Ser Val Asn Gly Gly Leu Val Asp Gln Ile Leu Gln Ile Gly Thr
 130 135 140
 Arg Lys Ala Arg Ser Ala Ala Cys Lys His Cys Asn Val Asp Ile Cys
 145 150 155 160
 Thr Asp Leu Asn Val Leu Gln Val Met Leu Gln Tyr Val His Pro Thr
 165 170 175
 Pro Asp Ile Arg Lys Val Asp Asp His Leu Ala Ile Glu Ser Ala Arg
 180 185 190
 Ser Cys Gln Ser Leu Val Lys Gln Leu Arg Glu Ile Gly Cys Gly Asp
 195 200 205
 Asp Asp Asp Ser Thr Gly Leu Arg Glu Ser Val Lys Leu Arg Lys Gln
 210 215 220
 Leu Val Gln Ser Leu Leu His Ile Ser Cys Ile Ser Leu Ile Pro Leu
 225 230 235 240
 Gly Thr Asn Gly Val
 245

<210> 31122

<211> 416

<212> PRT

<213> A.fumigatus

<400> 31122

Leu Ala Asp Ser Phe Lys Asn Phe Tyr Met Tyr Phe Thr Glu Lys Arg
 1 5 10 15
 His Asp Thr Asn Gly Ile Pro Arg Asp Pro Val Gly Ser Trp Pro Ser
 20 25 30
 Gln Asp Trp Arg Met Lys Asp Arg Leu Lys Thr Val Ser Ala Ala Leu
 35 40 45
 Ala Ile Cys Leu Asn Ile Gly Val Asp Pro Pro Asp Val Val Lys Thr
 50 55 60
 Asn Pro Ser Ala Lys Leu Glu Cys Trp Val Asp Pro Thr Ser Thr Thr
 65 70 75 80
 Gly Gly Gly Gln Asn Lys Ile Met Glu Gln Ile Gly Lys Lys Leu Gln
 85 90 95
 Glu Gln Tyr Glu Thr Leu Ser Leu Arg Thr Arg Tyr Lys Gln Tyr Leu
 100 105 110
 Asp Pro Ser Val Asp Glu Thr Lys Lys Phe Cys Ile Ser Leu Arg Arg
 115 120 125
 Asn Ala Lys Asp Glu Arg Val Leu Phe His Tyr Asn Gly His Gly Val
 130 135 140
 Pro Leu Pro Thr Gln Ser Gly Glu Ile Trp Val Phe Asn Lys Asn Tyr
 145 150 155 160
 Thr Gln Tyr Ile Pro Val Ser Leu Tyr Asp Leu Gln Ser Trp Leu Ala
 165 170 175
 Gly Pro Ser Leu Phe Val Phe Asp Val Ser His Ala Gly Asn Ile Val
 180 185 190
 Gln Asn Phe His Ile Phe Val Glu Lys His Glu Lys Glu Asn Leu Glu
 195 200 205
 Ala Lys Lys Arg Asp Pro Asn Ala Val Val Gln Asn Tyr Gly Asp Cys
 210 215 220
 Ile Leu Leu Ala Ala Cys Gln Lys Asn Glu Ser Leu Pro Thr Asn Pro
 225 230 235 240
 Asp Leu Pro Ala Asp Leu Phe Thr Cys Cys Leu Thr Thr Pro Ile Glu
 245 250 255
 Ile Ala Leu Arg Tyr Phe Ile Leu Gln Asn Pro Leu Gln Thr Asn Leu
 260 265 270
 Ser Ile Asp Glu Phe Arg Val Pro Gly Arg Leu Gln Asp Arg Arg Ser
 275 280 285
 Pro Leu Gly Glu Leu Asn Trp Ile Phe Thr Ala Ile Thr Asp Thr Ile
 290 295 300
 Ala Trp Asn Thr Leu Pro Arg Ala Leu Phe Lys Lys Leu Phe Arg Gln
 305 310 315 320
 Asp Leu Met Val Ala Ala Leu Phe Arg Asn Phe Leu Leu Ser Glu Arg
 325 330 335
 Ile Met Arg Thr Tyr Lys Cys His Pro Ile Ser Ser Pro Glu Leu Pro
 340 345 350
 Glu Thr His His His Pro Leu Trp Lys Ser Trp Asp Leu Ala Val Glu
 355 360 365
 Met Val Leu Ser Gln Leu Pro Ala Leu Ile Asp His Glu Glu Gly Arg
 370 375 380
 Arg Gln Tyr Glu Tyr Gln His Ser Thr Phe Phe Ala Glu Gln Leu Thr
 385 390 395 400
 Ala Phe Glu Val Tyr Leu Lys Ser Phe His Gln Pro Gln Lys Thr Thr
 405 410 415

<210> 31123

<211> 138

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (69)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31123

```

Thr Phe Leu Glu Leu Ile Ala Ser Pro Ser Phe Ser Arg Thr Val Ala
1           5           10           15
Pro Ile Leu Ile Ser Val Gly Ile Trp Lys Ser Phe Thr Ile Arg Leu
           20           25           30
Ile Thr Thr Val Cys Trp Thr Ser Phe Cys Pro Lys Tyr Ala Arg Ser
           35           40           45
Ala Gln Thr Ile Leu Lys Ser Phe Met Gln Thr Val Ala Thr Pro Arg
           50           55           60
Lys Lys Thr Gly Xaa Glu Ala Pro Ser Ser Phe Phe Glu Met Gly Val
65           70           75           80
Ile Val Thr Asn Glu Pro Ser Pro Phe Thr Ser Asp Asp Gly Gly Asn
           85           90           95
Val Gly Tyr Met Thr Leu Asp Val Gly Ala Arg Ile Ala Val Thr Arg
           100          105          110
Pro Tyr Phe Ser Pro Trp Arg Asp Asn Ser Ser Phe Asn Cys Ser Ile
           115          120          125
Phe Ala Thr Ser Leu Ser His Val Arg Gly
           130          135

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<210> 31124

<211> 186

<212> PRT

<213> A.fumigatus

<400> 31124

```

Leu Arg Leu Thr Met Pro Val Glu Lys Ala Pro Met Glu Ala Pro Asp
1           5           10           15
Leu Glu Ile Val Gly Asp Lys Val Thr Ile His Pro Ser Gly Tyr Thr
           20           25           30
Gly Gly Pro Gln Asp Gly Pro Ile Thr Glu Arg Asn Leu Val Ser His
           35           40           45
Met Ala Arg Phe Arg Glu Asn Pro Phe Asp Phe Leu Arg Glu Val Ser
           50           55           60
Leu Tyr Met Ser Gly Thr Gly Trp Arg Ala Tyr Asn Asp Val Ile Gly
65           70           75           80
Gln Pro Ile Phe Tyr Pro Gly Phe Ser Glu Arg Ile Lys Ser Ser Ile
           85           90           95
Leu Ala Ser Pro Ile Leu Gln Ala Lys Val Lys Glu Leu Ala Glu Met
           100          105          110
Arg Leu Ala Val Glu Glu Lys Glu Gly Leu Leu Gln Met Gly Gln Gly
           115          120          125
Pro Val Ser Lys Lys Lys Lys Gln Arg Arg Ala Glu Ile Glu Ser Asn
           130          135          140
Leu Lys Glu Val Val Asp Thr Met Met Asp Asn Met Ile Leu Gln Met
145          150          155          160
Glu Ser Lys Thr Phe Ile Arg Gly Ala Tyr Tyr Leu Cys Thr Gln Leu
           165          170          175

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11943

Leu Thr Arg Ala Leu Ser Ser Gly Leu Lys
180 185

<210> 31125
<211> 131
<212> PRT
<213> A.fumigatus

<400> 31125
Val Arg Glu Met Phe Thr Trp Gly Ser Arg Arg Arg Ala Val Gly Leu
1 5 10 15
Val Leu Tyr Asn Ala Leu Lys Ala Ala Glu Asp Ala Tyr Leu Ser Gly
20 25 30
Lys Asn Asn Arg Asn Glu Ile Leu Asp Ala Ala Asn Arg Met Thr Gln
35 40 45
Lys Val Leu Gly Glu Gln Gln Ala Leu Lys Pro Thr Glu Arg Ala Leu
50 55 60
Tyr Glu Val Asp Tyr Ile Ser Leu Ala Asp Pro Asp Thr Leu Asp Glu
65 70 75 80
Leu Glu Val Val Asp Pro Ser Arg Gly Ala Ile Leu Ser Gly Ala Ile
85 90 95
Lys Met Ala Pro Leu Glu Val Ser Asn Pro Gly Glu Asp Cys Gly Leu
100 105 110
Gly Asp Gly Lys Val Pro Val Arg Leu Ile Asp Asn Leu Ile Leu Thr
115 120 125
Pro Arg Val
130

<210> 31126
<211> 260
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (171)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31126
Pro Glu Lys Arg Asp Ala Leu Ser Asp Phe Cys Leu Ser Leu Ile Ala
1 5 10 15
Thr Thr Ser Leu Phe Asn Ser Thr Met Ala Ser Arg Gln His Ser Phe
20 25 30
Glu Val Phe Arg Asp Val Ala Pro Leu Arg Lys Met Arg Arg Gln Leu
35 40 45
Leu Leu Ser Asn Arg Thr Val Gly Leu Val Pro Thr Met Gly Ala Leu
50 55 60
His Glu Gly His Leu Ser Leu Met Arg Gln Ala Ala Asp Asn Thr
65 70 75 80
Asp Val Phe Val Ser Ile Tyr Val Asn Pro Thr Gln Phe Gly Val Asn
85 90 95
Glu Asp Leu Ala Ser Tyr Pro Arg Thr Trp Asp Ser Asp Val Ala Lys
100 105 110
Ile Glu Gln Leu Asn Glu Glu Leu Ser Arg Gln Gly Glu Lys Tyr Gly
115 120 125
Arg Val Thr Ala Ile Leu Ala Pro Thr Ser Lys Val Met Tyr Pro Thr

```

      130              135              140
Leu Pro Pro Ser Ser Glu Val Asn Gly Asp Gly Ser Phe Val Thr Ile
145              150              155              160
Thr Pro Ile Ser Lys Lys Leu Glu Gly Ala Xaa Arg Pro Val Phe Phe
      165              170              175
Arg Gly Val Ala Thr Val Cys Met Lys Leu Phe Asn Ile Val Cys Ala
      180              185              190
Asp Arg Ala Tyr Phe Gly Gln Lys Asp Val Gln Gln Thr Val Val Ile
      195              200              205
Lys Arg Met Val Lys Asp Phe His Ile Pro Thr Glu Ile Lys Ile Gly
      210              215              220
Ala Thr Val Arg Glu Asn Asp Gly Leu Ala Met Ser Ser Arg Asn Val
225              230              235              240
Tyr Leu Gly Val Gln Thr Thr Cys Arg Trp Ser Cys Ser Leu Gln Arg
      245              250              255
Leu Glu Ser Ser
      260

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<210> 31127

<211> 209

<212> PRT

<213> A.fumigatus

<400> 31127

```

Gln Ala Ala Val His Ser Ser Pro Thr Asn Phe Leu Met Ala Asp Asp
1              5              10              15
Gly Leu Leu Leu Asn Phe Ser Leu Gly Asp Asn Asn Ile Ile Gln Arg
      20              25              30
Glu Thr Lys Leu Lys Gly Gly Thr Trp Arg Asp Arg Leu Ser Ala Lys
      35              40              45
Lys Ile Ala Lys His His Ala Lys Gly Pro Arg Thr Ala Gly Asp Glu
      50              55              60
Asp Ser Ala Pro Arg Ala Pro Arg Asn Pro Asn Arg Ile Glu Val Pro
      65              70              75              80
Ser Ser Arg Pro Thr Lys Arg Gln Arg Thr Asp Gly Gly Asp Ser Gly
      85              90              95
Lys Gln Gln Ser His Gly His Pro His Ser Asn Gln Pro Arg Gln Phe
      100              105              110
Ile Ser Ser Leu Phe Thr Lys Asn Pro Glu Pro Gln Lys Ala Glu Glu
      115              120              125
Val Lys Glu Glu Gly His Val Glu Asn Ala Lys Pro Thr Asn Ala Pro
      130              135              140
Leu Ile Asp Gly Leu Asp Thr Phe Thr Asn Leu Gly Leu Ser Pro Asn
      145              150              155              160
Leu Ala Ala His Leu Leu Thr Lys Leu Glu Leu Lys Ala Pro Thr Ala
      165              170              175
Ile Gln Lys Ala Ser Ile Ser Gln Leu Lys Glu Glu Gly Asp Ala
      180              185              190
Phe Ile Gln Ala Glu Thr Gly Ser Ser Pro Gly Ala Glu Arg Ala Ser
      195              200              205
Val

```

<210> 31128

<211> 288

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (280)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31128

```

Asp Gly Val Ser Ile Phe Ile Leu Leu Ser Met Glu His Cys Leu Asp
1           5           10           15
Pro Glu Pro Lys Met Ser Asp Thr Glu Ile Glu Gly Gly Leu Asp Leu
           20           25           30
Gln Gln Thr Arg Ser Gly Trp Ser Ile Ala Glu Ser Leu Ser Pro Val
           35           40           45
Arg Glu Thr Val Phe Ile Phe Val Ile Cys Met Ala Gln Phe Met Thr
           50           55           60
Gln Ala Gly Leu Gly Ser Gln Leu Ala Pro Leu Thr Ile Ile Gly Asn
65           70           75           80
Ser Phe His Ile Thr Asp Asn Gly Ile Leu Ser Trp Phe Val Ala Gly
           85           90           95
Tyr Ser Leu Thr Val Gly Thr Phe Ile Leu Phe Phe Gly Arg Cys Gly
           100          105          110
Asp Cys Phe Gly Tyr His Thr Met Phe Val Ile Gly Phe Val Trp Phe
           115          120          125
Gly Ile Trp Ser Met Val Ala Gly Val Ser Val Tyr Ser Asn Ser Val
           130          135          140
Leu Phe Ile Phe Ala Arg Thr Ala Gln Gly Leu Gly Pro Ala Met Leu
145          150          155          160
Leu Pro Asn Gly Leu Ala Ile Leu Gly Ala Thr Tyr Arg Pro Gly Pro
           165          170          175
Lys Lys Asp Met Ile Phe Ala Ile Phe Gly Ala Thr Ala Pro Asn Gly
           180          185          190
Ala Ile Ile Gly Ala Val Phe Ala Ala Leu Phe Ser Gln Leu Ala Trp
           195          200          205
Trp Pro Trp Thr Phe Trp Ala Thr Ala Ile Val Cys Leu Val Leu Ala
           210          215          220
Ala Leu Gly Trp Ala Val Ile Pro Arg Ile His His Glu Arg Glu Lys
225          230          235          240
His Gly His Asp Ser Val Glu Trp Met Gln Glu Leu Asp Ile Val Gly
           245          250          255
Ala Cys Leu Gly Trp Gly Gly Leu Ile Phe Val Thr Trp Pro Gly Thr
           260          265          270
Arg Arg Pro Leu Ser Ala Gly Xaa Arg Arg Lys Cys Thr Cys Leu Leu
           275          280          285

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<210> 31129

<211> 171

<212> PRT

<213> A.fumigatus

<400> 31129

```

Trp Leu Ser Thr Ser Asp Ala Thr Tyr Ser Ser Arg Ser Ser Ser Ser
1           5           10           15
Thr Thr Ser Leu Ser Trp Arg Cys Ala Ser Thr Ser Ala Pro Ala Val
           20           25           30
His Gly Ser Ser Glu Pro Ile Cys Ala Ser Val His Ala Ile Thr Ser

```

35 40 45
 Ser Val Pro Tyr Thr Gly Pro Ser Thr Val Arg Ile Leu Ser Val Thr
 50 55 60
 Ser Asn Gly Thr Ser Asp Tyr Arg Pro Pro Leu Ser Ser Thr Leu Ser
 65 70 75 80
 Gln Arg Phe Glu Arg Arg Pro Ala Ser Ala Asn Val Ser Cys Gly Ser
 85 90 95
 His Pro Gln Cys Pro Asp Thr Ile Ala Pro Ser Val Ala Val Ala Tyr
 100 105 110
 Gly Ser Pro Gly Ala Val Ala Ser Trp Gln Asp Gly Arg His Val Ser
 115 120 125
 Gln Cys Arg Arg Arg Ser Asp Glu His Trp Gln Glu Phe Gly Ser Gln
 130 135 140
 Trp Asn Ala Arg Gly Ile Trp Gly Glu Arg Gln Ser Ile Val Lys Lys
 145 150 155 160
 Ser Thr Phe Val Thr Trp Gly Ile Arg Leu Arg
 165 170

<210> 31130

<211> 297

<212> PRT

<213> A.fumigatus

<400> 31130

Arg Gln Asn Leu Pro Gln His Ala Leu Pro Lys Leu Asn Gly Asp Tyr
 1 5 10 15
 Gly Ser Val Ala Glu Gly Pro Leu Tyr Glu Cys His Lys Cys Tyr Leu
 20 25 30
 Lys Asn Ala Ala Ala Gln Pro Ser Pro Glu Pro Arg Pro Ser Pro Tyr
 35 40 45
 Ser Ala Gln Arg Pro Val Leu Pro Ala Pro Arg Ile Pro Glu Tyr His
 50 55 60
 Gly His Pro Tyr Gly Pro His Ala His Pro Thr Pro Pro Thr Asn
 65 70 75 80
 Ala Leu Pro Arg Pro Leu Asn Gly Pro Leu Ala His Gly Thr Glu Trp
 85 90 95
 Tyr Pro Ala His Glu Gln Arg Pro Thr Glu Leu Ala Asp Gly Lys Leu
 100 105 110
 Arg Asn Gly Leu Pro Val Pro Ala Tyr His Gly Gly Pro Pro Pro Val
 115 120 125
 Gln Thr His Pro Leu Asn Gly Phe Gln His Pro Thr Pro Pro Thr His
 130 135 140
 Pro Ala Pro Pro Pro Pro Pro Pro His Tyr Pro Gly Gly Ala Pro Pro
 145 150 155 160
 Pro Pro His Gln Pro Tyr Thr Val His Gln Ser Pro Tyr Ala Pro Val
 165 170 175
 Ser Met Pro Ser Pro His Pro Ser His Thr Pro Gly Pro Leu Pro Tyr
 180 185 190
 Ala Ser Ser Ala Ser Pro Pro Thr Ala Gln Ala Thr Ile Val Arg His
 195 200 205
 Ser Pro Gln His Ser Leu Ser Ala Leu Asn Gly Gly Pro Pro Pro Arg
 210 215 220
 Met Tyr Pro Val Asp Arg Ile Leu Ser Ala Pro Thr Gln Ser Pro Pro
 225 230 235 240
 Val Ser Gln Ser Arg Met Asp Pro Arg Gly Pro Ser Pro Pro Gly Lys
 245 250 255

11947

Thr Glu Asp Thr Ser Leu Ser Ala Ala Gly Gly Ala Met Ser Thr Gly
260 265 270
Arg Ser Ser Gly Val Asn Gly Thr His Gly Gly Ser Gly Ala Ser Ala
275 280 285
Ser Pro Ser Leu Lys Asn Leu Leu Ser
290 295

<210> 31131
<211> 193
<212> PRT
<213> A.fumigatus

<400> 31131
Trp Ala Met Pro Leu Arg Ile Thr Ser Ala Pro Val Ser Gly Ile Gln
1 5 10 15
Lys Lys Lys Arg Pro Ala Thr Phe Lys Pro Arg Ala Ser Pro Phe Ala
20 25 30
Gly His Ala Arg Gln Lys Ala Ala Val Gln Ser Ser His Pro Ser Lys
35 40 45
Ser Asp Gln Leu Asp Glu Leu Tyr Thr Gly Asp Phe Asp Gln Gly Pro
50 55 60
Leu Pro Asp Leu Gly Ser Ser His Tyr Val Ser Gln Ile Ala Ala Val
65 70 75 80
Glu Asp Val Ile Gln Ala Ile His Tyr Ile Arg Asp Arg Met Phe Glu
85 90 95
Asp Ile Pro Ala Arg Ala Gly Met Asn Ser Thr Arg Ile Ala Glu Val
100 105 110
Leu Asn Leu Arg Arg Ser Leu Pro Pro Leu Ala Ser Val Ala His Val
115 120 125
His Thr Leu Met Asp Ala Pro Thr Lys Val Glu Lys Glu Ile Val Asp
130 135 140
Leu Ile Thr Ala Gly Arg Val Arg Arg Leu Ile Val Pro Gly Arg Gly
145 150 155 160
Thr Asp Ala Ala Gly Leu Gly Asp Cys Leu Val Leu Thr Glu Asp Trp
165 170 175
Glu Arg Leu Val Arg Glu Ser Ser Val Leu Glu Ala Ser Val Lys Gly
180 185 190
Lys

<210> 31132
<211> 76
<212> PRT
<213> A.fumigatus

<400> 31132
Tyr Arg Asp Trp Val Trp Asn Ala Phe Glu Asn Ile Asn Lys Tyr Cys
1 5 10 15
Arg Thr Glu Ser Gly Phe Ala Gly Leu Thr Asn Val Asn Ala Val Asn
20 25 30
Gly Gly Gly Arg Tyr Asp Asn Gln Glu Ser Phe Leu Phe Ala Glu Val
35 40 45
Met Lys Tyr Ala Tyr Leu Thr His Ala Pro Gly Met Ser Ser Met Pro
50 55 60
Ala Ala Ala Glu Asp Lys Ala Asn Lys Ser Arg Gly
65 70 75

<210> 31133
 <211> 199
 <212> PRT
 <213> A.fumigatus

<400> 31133
 Ile Glu Lys Ile Phe Phe Ala Cys Phe Ile Asp Arg Met Gly Ser Thr
 1 5 10 15
 Lys Pro Arg Thr Ser Ala Gln Ala Ser Ala Pro Lys Val Gln Ser Leu
 20 25 30
 Pro Glu Lys Thr Phe Ile Ile Asp Asn Gly Ala Tyr Thr Leu Lys Ala
 35 40 45
 Gly Tyr Ala Pro Gly Phe Pro Pro Glu Asp Leu Gly Gln Ala Leu
 50 55 60
 Ser Ala Cys Ser Thr Ile Pro Asn Ala Ile Ala Lys Thr Arg Gly Asn
 65 70 75 80
 Arg Ile Tyr Ile Gly Ala Gln Leu Asn Ser Gln Val Thr Asp Trp Asn
 85 90 95
 Glu Met Val Phe Arg Arg Pro Val Glu Lys Gly Tyr Ile Val Asn Trp
 100 105 110
 Glu Ala Gln Lys Glu Ile Trp Asp Asn Ala Phe Phe Asp Glu Lys Thr
 115 120 125
 Val Arg Ser Lys Asp Leu Arg Ile Glu Ser Pro Glu Asp Thr Thr Leu
 130 135 140
 Val Leu Thr Glu Ala Pro Asn Ala Leu Pro Thr Leu Gln Lys Asn Ala
 145 150 155 160
 Asp Glu Ile Val Met Glu Glu Trp Gly Phe Gly Gly Tyr Val Arg Phe
 165 170 175
 Val Gly Lys Ile Ala Gly Phe Pro His Cys Leu Thr Trp Leu Leu Met
 180 185 190
 Leu Thr Ser Gln Glu Leu Cys
 195

<210> 31134
 <211> 254
 <212> PRT
 <213> A.fumigatus

<400> 31134
 Asp Ser Arg Ile Pro Ser Leu Ser Tyr Leu Val Ile Asp Ala Asp Phe
 1 5 10 15
 Ala Gly Thr Val Leu Asn Ala Trp Asn Glu Val Gln Ser Leu Phe Gly
 20 25 30
 Asp Pro Ile Gly Gln Asp Ser Ser Ser Pro Ile Ser Pro Lys Gln Cys
 35 40 45
 Leu Leu Val Val Asp Ser Gly Tyr Ser His Thr Thr Val Thr Pro Val
 50 55 60
 Tyr Lys Gly Gln Pro Ile Gln Arg Ala Ile Arg Arg Leu Asp Ile Gly
 65 70 75 80
 Gly Lys His Leu Thr Asn Tyr Leu Lys Glu Met Val Ser Met Arg Gln
 85 90 95
 Tyr Asn Met Val Asp Glu Thr Tyr Ile Met Asn Glu Val Lys Glu Ala
 100 105 110
 Val Cys Phe Val Ser Asn Asn Phe Ala Gly Asp Leu Glu Gln Thr Trp
 115 120 125

Gln Gly Asn Arg Lys Arg Gly Leu Thr Asp Ala Ala Glu Gly Ile Thr
 130 135 140
 Val Asp Tyr Val Leu Pro Asp Pro Asn Thr Gly Lys Lys Gly Phe Met
 145 150 155 160
 Arg Pro His Asp Pro Leu Ser Asn Ala Lys Lys Arg Lys Ser Ile Leu
 165 170 175
 Ser Gly Gly Asn Ala Glu Ala Leu Ser Glu Asp Val Leu Ile Leu Gly
 180 185 190
 Asn Glu Arg Phe Thr Val Pro Glu Ile Leu Phe Thr Pro Ser Asp Ile
 195 200 205
 Gly Met Lys Gln Ala Gly Ile Pro Asp Ile Ile Leu Gln Ser Leu Ser
 210 215 220
 Val Leu Pro Thr Gly Leu His Pro Ser Phe Leu Ala Asn Val Leu Val
 225 230 235 240
 Val Gly Gly Asn Thr Leu Ile Pro Gly Phe Leu Glu Arg Leu
 245 250

<210> 31135

<211> 60

<212> PRT

<213> A.fumigatus

<400> 31135

Val Leu Ile Glu Tyr Asn Ile Ser Ala Gly Gly Ser Gln Gln Glu Phe
 1 5 10 15
 Glu Ser Thr Thr Thr Tyr His Met Leu Gln Met Arg Lys Pro Leu Arg
 20 25 30
 Gln His Asn Ser Gln Arg Thr Val Thr Trp Met Gln Tyr Leu Thr Asp
 35 40 45
 Asn Ser Thr Gln Ser Thr Thr Gln Lys Val Phe Arg
 50 55 60

<210> 31136

<211> 235

<212> PRT

<213> A.fumigatus

<400> 31136

Tyr Tyr Thr Arg Ser Gly Pro Thr His Thr Ala Val Thr Pro Leu Asp
 1 5 10 15
 Leu Val Lys Cys Arg Arg Gln Val Asp Pro Ser Ile Tyr Thr Ser Asn
 20 25 30
 Leu Ser Ala Trp Arg Gln Ile Phe Ser Lys Glu Gly Leu Arg Gly Val
 35 40 45
 Phe Phe Gly Trp Ser Pro Thr Phe Ile Gly Tyr Ser Phe Gln Gly Ala
 50 55 60
 Gly Lys Tyr Gly Leu Tyr Glu Tyr Phe Lys Tyr Leu Tyr Gly Asp His
 65 70 75 80
 Leu Phe Pro Ser Ile Asn Arg Thr Val Val Phe Leu Gly Ala Ser Ala
 85 90 95
 Ser Ala Glu Phe Phe Ala Asp Met Ala Leu Cys Pro Phe Glu Ala Ile
 100 105 110
 Lys Val Arg Met Gln Thr Thr Leu Pro Pro Tyr Ala His Asn Leu Arg
 115 120 125
 Glu Gly Trp Ser Lys Val Val Ala Lys Glu Gly Phe Gly Gly Leu Tyr
 130 135 140

11950

Lys Gly Leu Tyr Pro Leu Trp Ala Arg Gln Ile Pro Tyr Thr Met Thr
 145 150 155 160
 Lys Phe Ala Thr Phe Glu Glu Ser Val Asn Met Ile Tyr Arg Thr Leu
 165 170 175
 Gly Lys Pro Lys Glu Ser Phe Asn Ala Leu Gln Gln Thr Gly Val Ser
 180 185 190
 Phe Leu Gly Gly Tyr Ile Ala Gly Val Phe Cys Ala Val Val Ser His
 195 200 205
 Pro Ala Asp Val Met Val Ser Lys Leu Asn Ala Asp Arg Asn Gly Ser
 210 215 220
 Cys Ala Phe Leu Gly Ser Arg Leu Ser Phe Cys
 225 230 235

<210> 31137

<211> 64

<212> PRT

<213> A.fumigatus

<400> 31137

Met Pro Ile Gly Met Val Arg Val Arg Phe Ser Glu Ala Val Cys Arg
 1 5 10 15
 Ser Ala Asn Arg Leu Ala Ala Gly Glu Ser Ala Met Ala Ala Val Ser
 20 25 30
 Arg Ile Tyr Gly Lys Ile Gly Phe Ser Gly Leu Trp Asn Gly Leu Pro
 35 40 45
 Val Arg Ile Val Met Leu Gly Thr Leu Thr Gly Phe Gln Trp Leu Met
 50 55 60

<210> 31138

<211> 193

<212> PRT

<213> A.fumigatus

<400> 31138

Glu Val Met Pro Ser Pro Arg Val Arg Thr Phe Thr Leu Phe Ile Leu
 1 5 10 15
 Asn Ala Ser Trp Gln Thr Ser Ile His Arg Thr Arg Ala Cys Thr Ala
 20 25 30
 Ser Phe Ser Thr Thr Thr Ser Ala Leu Tyr Ala Ala Ser Arg Glu Pro
 35 40 45
 Thr Leu Tyr Glu Ile Leu Asp Val Pro Val Thr Ala Ser Ala Ala Glu
 50 55 60
 Ile Lys Lys Tyr Asp Asn Trp Pro Arg Pro Thr Leu Arg Pro Ser Pro
 65 70 75 80
 Pro His Leu Pro Tyr Phe Ser Thr Leu Cys Thr Ala Asn Val Thr Arg
 85 90 95
 Ile Ile Arg Lys Phe Tyr Ser Leu Ser Leu His His His Pro Asp Arg
 100 105 110
 Ile Pro Gly Asp Pro Lys Ala Ser Ser Arg Phe Ala Arg Ile Ser Ser
 115 120 125
 Ala Tyr His Val Leu Ser Asn Ser Ala Lys Arg Ser Ala Tyr Asp Arg
 130 135 140
 Glu His Gly Ile Tyr Ala Gln His Gly Ser Ser Thr His Ser Asn Ala
 145 150 155 160
 Asn Pro Ser Gln His Pro Met Gly Ser His Ser Asn Phe Arg Ala Asn
 165 170 175

11951

Leu His Thr Lys Gly Ala Phe Tyr Ala Gly Ser Arg Asn Ala Lys Gly
 180 185 190
 Leu

<210> 31139
 <211> 309
 <212> PRT
 <213> A.fumigatus

<400> 31139
 Ser Arg Leu Ile Arg Cys Ala Val Tyr Asn Ser Val Lys Ser Ala Tyr
 1 5 10 15
 Thr Asn Glu Thr Tyr Phe Phe Ala Thr Val Asn Gly Leu Asn Gly Asp
 20 25 30
 Ala Lys Ala Asn Ala Thr Val Ile Gly Gln Thr Glu Ala Gly Glu Ala
 35 40 45
 Glu Asp Asp Ser Asp Asp Glu Lys Glu Asp Gly Asn Thr Ala Pro Glu
 50 55 60
 Ala Gly Ala Gly Gly Gly Ala Tyr Leu His Val Trp Val Ile Phe Asp
 65 70 75 80
 Met Pro Val Ser Gln Ala Leu Gly Met Leu Ala Tyr Asn Ser Arg Ile
 85 90 95
 Pro Ala Ala Lys Lys Lys Lys Arg Lys Ser Lys Lys Lys Lys Lys Gly
 100 105 110
 Gly Ala Lys Val Gln Ser Ser Pro Pro Arg Val Pro Val Ser Asn Leu
 115 120 125
 Phe Pro Asn Asn Gln Tyr Pro Glu Gly Glu Ile Val Glu Tyr Lys Asn
 130 135 140
 Glu Asn Ser Tyr Arg Thr Thr Asn Glu Glu Lys Arg Tyr Leu Asp Arg
 145 150 155 160
 Met Asn Asn Asn Phe Leu Gln Glu Tyr Arg Gln Ala Ala Glu Val His
 165 170 175
 Arg Gln Val Arg Gln Tyr Ala Gln Lys Thr Ile Lys Pro Gly Gln Thr
 180 185 190
 Leu Thr Glu Ile Ala Glu Gly Ile Glu Asp Ala Val Arg Ala Leu Thr
 195 200 205
 Gly His Gln Gly Leu Glu Glu Gly Asp Asn Leu Lys Gly Gly Met Gly
 210 215 220
 Phe Pro Cys Gly Leu Ser Ile Asn His Cys Ala Ala His Tyr Thr Pro
 225 230 235 240
 Asn Ala Gly Asn Lys Met Val Leu Gln Gln Gly Asp Val Met Lys Val
 245 250 255
 Asp Phe Gly Ala His Ile Asn Gly Arg Ile Val Asp Ser Ala Phe Thr
 260 265 270
 Met Thr Phe Asp Pro Val Tyr Asp Pro Leu Leu Glu Ala Val Lys Asp
 275 280 285
 Ala Thr Asn Thr Gly Ile Arg Val Arg Gln Ser Pro Ser Phe Lys Leu
 290 295 300
 Ser Arg Ile Ser Tyr
 305

<210> 31140
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 31140

Ala Arg Arg Asn Ile Ser Leu Glu Tyr Val Asn Thr Leu Pro Val Pro
 1 5 10 15
 Val Gln Ser Pro Leu Phe Tyr Ser Thr Asp Leu Ser Leu Gln Leu Asn
 20 25 30
 Asn Leu Val Ser Ser Gly Ile Val Gln Asp Tyr Pro Pro Leu Cys Asp
 35 40 45
 Val Lys Gly Ser Tyr Thr Ala Gln Phe Glu His Val Trp Glu Arg Leu
 50 55 60
 Thr Pro
 65

<210> 31141

<211> 194

<212> PRT

<213> A.fumigatus

<400> 31141

Leu Leu Ile Leu Ser Thr Thr Leu Cys Trp Lys Pro Ser Arg Met Leu
 1 5 10 15
 Pro Thr Pro Val Phe Gly Phe Val Asn Pro Gln Ala Ser Ser Tyr Arg
 20 25 30
 Gly Phe His Thr Asp Asp Ser Leu Gln Glu Ala Gly Ile Asp Val Arg
 35 40 45
 Met Ser Asp Ile Gly Ala Ala Ile Gln Glu Ala Met Asp Ser Tyr Glu
 50 55 60
 Val Glu Leu Asn Gly Thr Met Tyr Pro Val Lys Cys Ile Arg Asn Leu
 65 70 75 80
 Asn Gly His Asn Ile Asp Arg His Ile Ile His Gly Gly Lys Ser Val
 85 90 95
 Pro Ile Val Lys Gly Ser Asp Gln Thr Lys Met Glu Glu Gly Glu Thr
 100 105 110
 Phe Ala Ile Glu Thr Phe Gly Ser Thr Gly Lys Gly Tyr Val Arg Glu
 115 120 125
 Asp Val Ser Ala Leu Arg Lys Thr Pro Leu Leu Ala Phe Gly Ile Cys
 130 135 140
 Leu Pro His Ile Phe Ser Ala Asp Gly Asn Val Pro Leu Cys Pro Asp
 145 150 155 160
 Pro Arg Cys Ala Phe Gly Pro Ser Gln Thr Leu Phe Cys Glu Glu Leu
 165 170 175
 Ala Gln Cys His Gln Gln Glu Phe Arg His Thr Ala Leu Leu Pro Ser
 180 185 190
 Val Ser

<210> 31142

<211> 92

<212> PRT

<213> A.fumigatus

<400> 31142

Val Leu Ser Gly Arg Arg Arg Cys Leu Arg Ser Glu Tyr Ala Tyr Pro
 1 5 10 15
 Ile Phe Phe Leu Gln Met Glu Thr Ser His Tyr Ala Leu Ile Pro Asp
 20 25 30

11953

Ala Pro Ser Val Pro Leu Arg Leu Ser Ser Ala Lys Asn Leu Leu Asn
 35 40 45
 Val Ile Asn Lys Asn Phe Gly Thr Leu Pro Phe Cys Arg Arg Tyr Leu
 50 55 60
 Asp Arg Leu Gly Gln Glu Lys Tyr Leu Leu Gly Val Arg Gln Tyr Ser
 65 70 75 80
 Ala Gly Ser Gly Ala Ile Ser Ser Leu Leu Gln Tyr
 85 90

<210> 31143
 <211> 75
 <212> PRT
 <213> A.fumigatus

<400> 31143
 Val Ala Phe Pro Ser Lys Leu Cys Tyr Pro Thr His Phe Ile Tyr Gln
 1 5 10 15
 Ala Ile Ser Ala Lys Asp Ala Ala Ser Leu Asp Lys Asp Leu Met Glu
 20 25 30
 Met Gly Gly Trp Ser Leu Asp Gln Leu Met Glu Leu Ala Gly Leu Ser
 35 40 45
 Val Ser Gln Ala Gly Met Trp Ser Ser His Gly Ala Leu Gln Ala Gln
 50 55 60
 Asn Lys Asn Asn Gln Arg Leu Thr His Leu Arg
 65 70 75

<210> 31144
 <211> 149
 <212> PRT
 <213> A.fumigatus

<400> 31144
 Leu Ser Gly Asn Gln Gln Arg Leu Lys Thr Gln Leu His Asn Leu Ser
 1 5 10 15
 Val Pro Phe Val Pro Asp Phe Thr Glu Ala Leu Lys Ser Ala Asp Phe
 20 25 30
 Leu Val Asp Ala Ile Phe Gly Phe Ser Phe Gly Gly Pro Leu Arg Glu
 35 40 45
 Pro Phe Pro Ser Ile Ile Ser Gln Ile Glu Ser Ser Ser Val Pro Val
 50 55 60
 Leu Ser Val Asp Ala Pro Ser Ser Trp Asp Ile Gln Ser Gly Pro Pro
 65 70 75 80
 Lys Glu Gly Pro Gly Ser Lys Phe Met Pro Lys Ala Leu Ile Ser Leu
 85 90 95
 Thr Ala Pro Lys Pro Cys Val Lys Tyr Tyr Arg Gly Arg His Phe Val
 100 105 110
 Gly Gly Arg Phe Leu Thr Lys Ser Ile Val Glu Lys Tyr Gly Leu Asn
 115 120 125
 Cys Pro Asp Tyr Pro Gly Ile Asp Gln Ile Val Glu Val Gly Val Asp
 130 135 140
 Ala Glu Gly Arg Leu
 145

<210> 31145
 <211> 100
 <212> PRT

<213> A.fumigatus

<400> 31145

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Arg Ser Ala Arg Asp Ser Lys Pro Leu Glu Val Ile Gly Thr Tyr Asn
1          5          10          15
Pro Ile Pro Gln Arg Pro Thr Asn Leu Ser Glu Glu Glu Ala Arg Arg
          20          25          30
Ala Lys Pro Phe Lys Glu Val Ser Leu Asp Arg Ser Arg Ala Lys Tyr
          35          40          45
Trp Leu Gly Val Gly Ala Gln Pro Ser Glu Ser Val Trp Arg Leu Leu
          50          55          60
Asn Leu Val Arg Gly Gly Gln Ala Ser Glu Asn Arg Ser Ser Leu Leu
65          70          75          80
Thr Gly Thr Ser Met Leu Gly Trp Ser Cys Ser Thr Gln Val Leu Met
          85          90          95
Ala Pro Lys Glu
          100

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<210> 31146

<211> 97

<212> PRT

<213> A.fumigatus

<400> 31146

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Thr Ser Val Ser Ser Ala Ser Asn Lys Val Gln Cys Phe Asp Ser Ala
1          5          10          15
Leu Leu Ala Gly Tyr Glu Gly Gln Arg Phe Arg Ile Val Lys Met Val
          20          25          30
Val Arg Ile Arg Leu Ser Arg Phe Gly Asn Arg His Gln Pro Phe Tyr
          35          40          45
Asn Ile Val Val Ala His Ala Arg Tyr Ala Ser Phe Leu Leu Val Leu
          50          55          60
Gln Phe Phe Phe Ser Leu Glu Leu Phe Tyr Cys Leu Pro Ser Ala Ser
65          70          75          80
Arg Leu Arg Leu Thr Asp Asn Arg Gln Pro Ser Asp Cys Leu Glu Lys
          85          90          95
Cys

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<210> 31147

<211> 155

<212> PRT

<213> A.fumigatus

<400> 31147

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Thr Val His Leu Pro Thr Pro Arg Gly Ile Thr Ala His Ile Ala Asp
1          5          10          15
Arg Ala Asp Ser Ala Asp Ser Ala Ser Ser Glu Glu Pro Thr Arg Asp
          20          25          30
Cys Asn Ala Gln Pro Pro Arg Asn Arg Val Tyr Val Pro Gly Pro Ala
          35          40          45
Arg Asn Pro Arg Pro Ala His Gln Ala Pro Ser Gly Phe Pro Ala Arg
          50          55          60
Leu Arg Arg His Arg Ala Leu Leu Arg Arg Ser Arg Leu Pro Gly Pro
65          70          75          80
Phe Gln Leu Gln Arg Leu Pro Pro Arg Arg Arg Ala Arg Gly Pro Pro

```


11955

	85		90		95
Ala Val Arg Phe Pro Arg Pro Leu His His Leu Pro Ala Ala Leu Pro					
	100		105		110
Leu Leu Arg Gly Ser Pro Arg Pro His Ala Asn Arg Ala Pro Pro His					
	115		120		125
Arg Lys Ala Pro Gln Met Val Pro Asp Arg Pro His Pro Gln His Arg					
	130		135		140
Pro His Pro Asp Pro Leu Gln Phe Pro Pro Val					
145		150		155	

<210> 31148
 <211> 264
 <212> PRT
 <213> A.fumigatus

<400> 31148

Leu Leu Thr Phe Ser Glu Arg Ser Ile Tyr Leu Arg Arg Glu Gly Leu					
1	5		10		15
Leu Arg Ile Leu Gln Thr Val Gln Thr Val Gln Thr Val His Leu Gln					
	20		25		30
Lys Ser Gln Pro Gly Ile Ala Met Pro Asn Arg Leu Gly Ile Gly Ser					
	35		40		45
Met Ser Leu Gly Arg Pro Gly Ile His Asp Leu Pro Thr Lys Leu His					
	50		55		60
Gln Ala Ser Arg His Gly Tyr Glu Gly Ile Glu Leu Phe Phe Asp Asp					
	65		70		75
Leu Asp Cys Leu Ala His Ser Ser Phe Asn Gly Cys His Leu Ala Ala					
	85		90		95
Ala His Glu Val Arg Arg Leu Cys Asp Ser Leu Gly Leu Ser Ile Ile					
	100		105		110
Cys Leu Gln Pro Phe Leu Phe Phe Glu Gly Leu Leu Asp Arg Thr Gln					
	115		120		125
Thr Glu His Leu Leu Thr Glu Lys Leu Pro Lys Trp Phe Gln Ile Ala					
	130		135		140
His Ile Leu Asn Thr Asp Leu Ile Gln Ile Pro Ser Asn Phe Leu Pro					
	145		150		155
Ser Asp Pro Thr Thr Gly Ala Pro Arg Thr Thr Gly Asp Leu Asp Val					
	165		170		175
Ile Val Ser Asp Leu Gln Arg Ile Ala Asp Leu Gly Ala Ala Gln Ser					
	180		185		190
Pro Pro Phe Arg Phe Val Tyr Glu Ala Leu Ala Trp Gly Thr His Val					
	195		200		205
Ser Thr Trp Glu Gln Ala Trp Ala Ala Val Ser Arg Ala Asn Arg Pro					
	210		215		220
Asn Leu Gly Leu Cys Leu Asp Thr Phe Asn Leu Ala Gly Arg Val Tyr					
	225		230		235
Ala Asp Pro Ala Ala Pro Ser Gly Lys Thr Pro His Ala Glu Ala Asp					
	245		250		255
Leu Ala Ala Ser Leu Gln Arg Leu					
	260				

<210> 31149
 <211> 219
 <212> PRT
 <213> A.fumigatus

<400> 31149

Glu Ser Gly Leu Cys Pro Trp Ala Gly Gln Glu Ser Thr Thr Cys Pro
 1 5 10 15
 Pro Ser Ser Ile Arg Leu Pro Gly Thr Ala Thr Lys Ala Ser Ser Ser
 20 25 30
 Ser Ser Thr Ile Ser Thr Ala Trp Pro Ile Pro Ala Ser Thr Ala Ala
 35 40 45
 Thr Ser Pro Pro Arg Thr Arg Ser Ala Gly Cys Ala Ile Pro Ser Ala
 50 55 60
 Ser Pro Ser Ser Ala Cys Ser Pro Ser Ser Ser Arg Val Ser Ser
 65 70 75 80
 Thr Ala Arg Lys Pro Ser Thr Ser Ser Pro Lys Ser Ser Pro Asn Gly
 85 90 95
 Ser Arg Ser Pro Thr Ser Ser Thr Pro Thr Ser Ser Arg Ser Pro Pro
 100 105 110
 Ile Ser Ser Arg Leu Thr Gln Pro Pro Ala His Pro Ala Leu Pro Ala
 115 120 125
 Thr Trp Met Ser Ser Ser Pro Thr Ser Ser Ala Ser Gln Thr Ser Ala
 130 135 140
 Pro Pro Lys Ala Arg Leu Ser Ala Ser Ser Thr Arg Pro Ser His Gly
 145 150 155 160
 Ala Pro Thr Ser Pro Pro Gly Ser Lys Pro Gly Pro Arg Cys Arg Ala
 165 170 175
 Pro Thr Ala Pro Thr Ser Ala Ser Ala Ser Thr His Ser Thr Ser Arg
 180 185 190
 Ala Gly Cys Thr Arg Thr Gln Gln His Pro Pro Ala Lys His Pro Thr
 195 200 205
 Gln Arg Arg Ile Ser Pro Pro Arg Cys Ser Val
 210 215

<210> 31150

<211> 195

<212> PRT

<213> A.fumigatus

<400> 31150

Glu Phe Leu Glu Tyr His Ala Pro Pro Asn His His Arg Trp Arg Arg
 1 5 10 15
 Pro His Arg Pro Ser Pro Arg Pro Ile Arg Pro Leu Gln Pro Ile His
 20 25 30
 Arg Ala Gly Gly Pro Arg Arg Pro Ser Gln Gln Arg Gly Pro Arg Arg
 35 40 45
 Leu Thr Ala Ala Asp Arg Thr Leu Pro Leu Cys Ser Arg His Ala Gly
 50 55 60
 Gly Asn Pro Gln Thr Arg Arg Arg His His Leu His Pro Lys Pro Leu
 65 70 75 80
 Pro Arg Pro Tyr Arg Asn Arg Ala Ala Leu Pro Arg His Pro Leu Pro
 85 90 95
 His Arg Glu Thr Pro Gln Arg Gln Arg Leu Ile Gly Pro Val Val Ala
 100 105 110
 Ser Leu Arg Pro Pro Pro Arg Lys Arg Pro Pro Asp Cys Pro Gly Trp
 115 120 125
 Pro Pro Pro Pro Leu Gln Pro Leu Cys Ser Gly Ser Pro Gly Asp Ser
 130 135 140
 Gly Ile Leu Thr Pro Ser Gly Thr Val Ile Arg Ser Pro Arg Pro Ser
 145 150 155 160

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<210> 31151
<211> 112
<212> PRT
<213> A.fumigatus
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<210> 31152
<211> 253
<212> PRT
<213> A.fumigatus
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<400>	31152																
Ala	Leu	Ala	Leu	Trp	Ile	Ala	His	Ser	Thr	Met	Val	Cys	Arg	Pro	Ile		
1				5					10					15			
Ile	Thr	Arg	Thr	Leu	Gln	Thr	Asn	Asp	Cys	Ala	Ala	Tyr	Asn	Thr	Phe		
			20					25					30				
Val	Ser	Met	Gln	Thr	Gly	Glu	Val	Asn	Arg	Asn	Ile	Ser	Arg	Thr	Asn		
		35					40					45					
Asp	Ala	His	Arg	Gln	Gly	Asn	Thr	Ile	Phe	Val	Gly	Leu	Gly	Ala	Ser		
	50					55					60						
Asn	Gln	Asn	Leu	Lys	Pro	Tyr	Gly	Trp	Ala	Arg	Ser	Leu	Thr	Ser	Ile		
65					70					75					80		
Gly	Cys	Phe	Val	Ile	Gly	Cys	Phe	Leu	Phe	Ala	Arg	Leu	Asn	Arg	Leu		
				85					90					95			
Leu	Gly	Pro	Arg	Arg	Arg	Val	Thr	Leu	Val	Leu	Ser	Phe	Leu	Leu	Gln		
			100					105					110				
Val	Ala	Met	Leu	Val	Ile	Thr	Ala	Ser	Leu	Val	Gln	Ser	Gly	Val	Ile		
		115					120					125					
Ala	Gly	Ile	Pro	Ser	Asn	Pro	Ala	Ser	Ser	Glu	Thr	His	Trp	Ser	Gln		
	130					135					140						
Glu	Ala	Pro	Ile	Val	Leu	Leu	Ser	Ile	Gln	Ser	Ala	Gly	Gln	Ile	Val		
145					150					155					160		
Ala	Ser	Arg	Ala	Leu	Gly	Phe	Asn	Glu	Ile	Pro	Thr	Val	Val	Ile	Thr		
				165					170					175			

11958

Ser Leu Leu Cys Asp Leu Val Ser Asp Pro Lys Leu Phe Leu Leu Arg
 180 185 190
 Asn Glu Lys Arg Asp Arg Arg Met Val Ala Phe Val Leu Thr Leu Ile
 195 200 205
 Gly Ala Ile Ala Gly Gly Trp Ile Thr Lys Ala Thr Arg Asp Ile Ser
 210 215 220
 Pro Val Leu Trp Met Ala Ala Gly Leu Lys Phe Ile Ile Ser Val Ser
 225 230 235 240
 Trp Ile Phe Trp Arg Glu Asn Glu Gly Ala Ser Ala Val
 245 250

<210> 31153
 <211> 78
 <212> PRT
 <213> A.fumigatus

<400> 31153
 Arg Thr Lys Ser Val Ser Asp Arg Leu Ser Ser Trp Pro Gly Tyr Phe
 1 5 10 15
 Ile Cys Arg Glu Val His Glu Pro Met Val Lys Tyr Gly Pro Asp Ile
 20 25 30
 His Cys Ser His Ile Gly Pro Thr Gly Gly Asp Tyr Cys Val Asp Asp
 35 40 45
 Leu Ser Tyr Glu Gln Val Val Leu Glu Lys Tyr Phe Arg Asp Ser Phe
 50 55 60
 Ile Ala Tyr Gly His Gly Gln Glu Gln Asn Ile Trp Val Ala
 65 70 75

<210> 31154
 <211> 156
 <212> PRT
 <213> A.fumigatus

<400> 31154
 Val Arg Asp Cys Val Pro Gln Asp Pro Glu Arg Pro Thr Cys Tyr Tyr
 1 5 10 15
 Pro Asn Ile Val Leu Gln Pro Pro Gly Ser Leu Ser Gly Ser Thr Ile
 20 25 30
 Leu Tyr Phe Pro Leu Phe Glu Ser Phe Thr Pro Ala Arg Gly Thr Leu
 35 40 45
 Gly Met Lys Leu Leu Ile Met Leu Leu Lys Thr Trp Met Ile Tyr Thr
 50 55 60
 Val Arg Asn Pro Lys Ala Pro Lys Ser Ala Thr Tyr Asn Ala Thr Lys
 65 70 75 80
 Ser Leu Asn Asp Asp Arg Arg Trp Ala Ile Ala Arg Pro Asp Cys Arg
 85 90 95
 Pro Thr Ser Ser Arg Ala Phe Ser Ser Tyr Glu Cys Val Glu Cys Arg
 100 105 110
 Arg Met Ala Phe Ala Trp Pro Ala Asp Cys Met Leu Tyr His Ala Ser
 115 120 125
 Tyr Asp Lys Gly Val Leu Ser Gln Val Phe Tyr Gly Glu Gly Ser Ser
 130 135 140
 Ser Tyr Thr Ala Gly Met Glu Ser His Arg Ser Ala
 145 150 155

<210> 31155

<211> 99
 <212> PRT
 <213> A.fumigatus

<400> 31155
 His Asn Tyr Gln Ile Ile Ile Phe Ala Lys Leu Phe Glu Leu Val Asn
 1 5 10 15
 Glu Lys Gly Asp Asp Gly Ala Glu Thr Ala Ser Leu Val Pro Ser Gly
 20 25 30
 Leu Ala Lys Arg Arg Arg Arg Ile Cys Ala Ser Glu Gly Gly Phe Gly
 35 40 45
 Phe Gly Val Ile Arg Cys Thr Arg Arg Gly Gln Arg Pro Pro Trp Ile
 50 55 60
 Ala Gly Leu Ile Gly Arg Ala Ala His Leu Ser Gly Ser Ser Asn Asn
 65 70 75 80
 Glu Ser Glu Ile Val Phe Arg Lys Ile Gln Asn Gly Gln Leu Val Thr
 85 90 95
 Thr Gln Thr

<210> 31156
 <211> 178
 <212> PRT
 <213> A.fumigatus

<400> 31156
 Gly Ala Ala Pro Ser Ser Pro Val Val Lys Thr Val Ile Glu Glu Gln
 1 5 10 15
 Ala Arg Glu Leu Pro Arg Leu Pro Thr Asn Leu Asp Val Ser Glu Gln
 20 25 30
 Asp Arg Ile Leu Asn Ala Val Asn Asp Arg Leu Ser Gln Cys Ala Phe
 35 40 45
 Asp Phe Val Ala Lys Tyr Gln Phe Pro Ile Pro Leu Glu Ala Asp Lys
 50 55 60
 Arg Glu Val Arg Ile Pro Ser Asp Arg Glu Trp Thr Glu Trp Val Tyr
 65 70 75 80
 Leu Leu Lys Arg Leu Ala Thr Lys Arg Arg Ile Pro Ala Arg Val Leu
 85 90 95
 Tyr Asn Gly Gln Ile Lys Gln Leu Val Thr Val Leu Glu Asn Ser Leu
 100 105 110
 Glu Met Arg His Ala Ala Lys His Gln Ser Arg Pro Ile Lys Asp Asp
 115 120 125
 Arg Asn Val Leu Gln Leu Ile Ser Ala Gly Thr Gln Val Ala Lys Met
 130 135 140
 Leu Lys Asp Ala Ser Ala Met Glu Tyr Leu Asp Lys Leu Tyr Val Asp
 145 150 155 160
 Thr Glu Lys Arg Ile His Glu Arg Arg Ser Arg Arg Val Lys Phe Ala
 165 170 175
 Ser Pro

<210> 31157
 <211> 72
 <212> PRT
 <213> A.fumigatus

<400> 31157

Glu Tyr Thr Leu His Asn Glu Ile Thr Asn Gly Ala His Asn Arg Gln
 1 5 10 15
 Lys Arg Cys Arg Glu Ala Gln Ala Ser Val Ala Phe Leu Trp Phe Ala
 20 25 30
 Trp Ala Gly Tyr Met Ala Ser Thr Ile Ile Ser Ile Leu Met Ala Arg
 35 40 45
 Ser Ala Thr Val Asp Leu Arg Ser Arg Thr Gly Arg Ala Pro Arg Val
 50 55 60
 Ala Arg Pro Ser Met Ala Gln Val
 65 70

<210> 31158

<211> 101

<212> PRT

<213> A.fumigatus

<400> 31158

Gln Ala Ser Thr Met Gln Phe Val Phe Ser Leu Leu Val Met Ala Leu
 1 5 10 15
 Ile Gly Asn Ile Ile Ala Met Ala Phe Ala Gly Asn Pro Ala Thr Ile
 20 25 30
 Asn Tyr Ser Met Phe Thr Ala Thr Phe Ser Ile Ile Ser Leu Phe Tyr
 35 40 45
 Leu Val Pro Ala Ser Ile Asn Leu Asn Trp Ala Ile His Pro Ile Ile
 50 55 60
 Met Ile Val Leu Asp Val Leu Asn Asn Ile Phe Phe Leu Thr Cys Ala
 65 70 75 80
 Ile Ala Leu Ala Ala Arg Leu Glu Cys His Ser Cys Ser Asn Asp Val
 85 90 95
 Gly Leu Arg Arg Leu
 100

<210> 31159

<211> 265

<212> PRT

<213> A.fumigatus

<400> 31159

Arg Gly Leu Ile Ser Ser Thr Thr Val Gly Pro Ser Ser Pro Val Val
 1 5 10 15
 Lys Thr Leu Thr Val Asp Pro Glu Lys Arg Tyr Ser Ile Lys Glu Phe
 20 25 30
 Leu Ala His Pro Trp Ile Arg Gln Thr Asp Glu Ala Thr Glu Ala Ala
 35 40 45
 Asp Asp Ala Pro Pro Leu Ala Thr Pro Leu Ala Ser Arg Gln Thr Lys
 50 55 60
 Gln Gln Pro Leu Asp Ala Gln Ala Ala Asp Gln Ala Pro Tyr Ala Pro
 65 70 75 80
 Val Ser Ala Arg Leu Leu Gly Pro Ala Ser Ala Gly Leu Asp Arg Pro
 85 90 95
 Met Asp Phe Arg Ser Pro Gly Ala Ile Asn Leu Arg Glu Val Phe Asp
 100 105 110
 Val Gly Tyr Ala Val His Arg Gln Glu Glu Glu Gly Lys Arg Arg Lys
 115 120 125
 Asn Phe Arg Gln Gly Tyr Arg Gly Ala Asn Pro Thr Thr Gly Phe Gln

130		135		140
Ser Ala Leu Asn Pro Leu Asn Glu Asp Asn Asp Asp Asp Glu Glu Asp				
145		150		160
Asp Val Thr Leu Gln His Val Gln Asn Asp Ala Tyr Pro Pro Ala Lys				
	165		170	175
Ile Pro Lys Ala Ser Gln Asp Ala Gly Asp Val Ala Ala Met Glu Ala				
	180		185	190
Lys Leu Arg Ser Thr Asn Leu Gly Ala Pro Ser His Ala Ala Gln Ala				
	195		200	205
Arg Gln Ala Pro Gln Ser Arg Gln Gln Gly Tyr Gly Thr His Ser Ala				
	210		215	220
Asn Val Val Ala Ala Ala Lys Gln Ser Ile Asn Arg His Ser Arg Gln				
225		230		240
Pro Phe Glu Leu Ser Leu Ser Asn Ala Thr Leu Leu Glu Lys Arg Gly				
	245		250	255
Arg Arg Gln Gln Gly Gln Ala Val Val				
	260		265	

<210> 31160

<211> 702

<212> PRT

<213> A.fumigatus

<400> 31160

Leu Asp Leu Val His Val Val Arg Thr Cys Ser His Pro Val Cys Ser				
1	5		10	15
His Arg Pro Ala His Gly Gln Ala Leu His Pro Arg Arg Arg Thr Ala				
	20		25	30
Asp Arg Val Thr Arg His Ile Glu Ala Phe Ala Asp Arg Leu Asp Arg				
	35		40	45
Phe Asn Gln Lys Gly Arg Thr Asp Asp Leu Gly Asn Tyr Gln Ala Ala				
	50		55	60
Tyr Gln Leu Val Lys Ser Tyr Gln Val Leu Ala Gln Asp Ala Ile Gln				
65		70		80
Asp Ile Thr Lys Gln Asn Thr Leu Lys Arg Ala Lys Met Gly Trp Ser				
	85		90	95
Thr Ser Arg Thr Asn Gly Thr Ala Ser His Asp Pro Lys Ile Glu Glu				
	100		105	110
Glu Leu Gln Arg Leu Gln Leu Glu Ala Asn Thr Trp Gln Leu Leu Leu				
	115		120	125
Asn Leu Ile Ser Ile Asp Asp Pro Pro Ser Lys Ala Ser Cys Lys Lys				
	130		135	140
Ala Gln Glu Thr Val Phe Gln Lys Leu His Arg Tyr Ser Ser Asp Arg				
145		150		160
Glu Val Trp Glu Ser Phe Leu Ser Ala Asp His Tyr Ala Leu Glu Cys				
	165		170	175
Val Ile Ile Met Lys Trp Leu Glu Arg Thr Ala Thr Thr Thr Pro Gln				
	180		185	190
Asp Ile Asp Ser Leu Ile Ser Glu Leu Glu Ser Gln Ala Glu Arg Gly				
	195		200	205
Gln Gly His Trp Thr His Gly Trp Leu Tyr Thr Lys Glu Thr Ile Lys				
	210		215	220
Gly Gln Lys Arg Leu Arg Ala Trp Pro Gln Pro Leu Glu Pro Lys Asp				
225		230		240
Pro Gly Ile Thr Ala Ser Leu Leu Thr Ser Asp Val Ser Glu Pro Leu				
	245		250	255

Ile Thr Gln Leu Asp Pro Asp Ala Val Thr Arg Gln Lys Gln His Leu
 260 265 270
 Gln Lys Gln Asp Gln Phe Tyr Glu Arg Ala Thr Trp Met Thr Cys Trp
 275 280 285
 Lys Met Leu Arg Gln Gly Glu Asn Trp Thr Lys Ile Arg Asp Trp Ala
 290 295 300
 Glu Glu Arg Leu Glu Asn Trp Lys Ala Val Ser Leu Cys Gly Ser Ser
 305 310 315 320
 Val Asp Pro Glu Ser Gly Gly Glu Arg Thr Pro Ala Asp Asp Gly Met
 325 330 335
 Thr Arg Met Met Asn Phe Arg Ser Gln Glu Ser Trp Arg Ala Ala Gly
 340 345 350
 Ser Ala Leu Ala Arg Asn Pro His Ile Glu Asp Phe Glu Arg Ala Val
 355 360 365
 Tyr Ala Leu Leu Cys Gly Glu Thr Glu Ala Ala Leu Lys Val Cys Gln
 370 375 380
 Ser Trp Asp Asp Tyr Leu Tyr Val His Phe Asn Ser Val Val Leu Ser
 385 390 395 400
 Arg Tyr Gln Gly Phe Cys Lys Gln Phe Arg Arg Lys Leu Ser His Ser
 405 410 415
 Pro Thr Ala Pro Val Asn Phe Val Pro Glu Pro Val Gly Tyr Ser Asp
 420 425 430
 Phe Asn Lys Phe Val Gln Tyr Thr Lys Gly Asn Glu Arg Ile Gly Val
 435 440 445
 Glu Ala Arg Asn Pro Tyr Arg Thr Ile Gln Ala Ala Ile Leu Gly Lys
 450 455 460
 Gly Tyr Asp Thr Phe Phe Tyr Ser Leu Ala Lys Ala Val Ser Gln Val
 465 470 475 480
 Ala Lys Thr Gly Ser Glu Asp Ser Phe Val Pro Asp Leu Ser Pro Thr
 485 490 495
 His Val Asp Asp Ser Leu Leu Ile Ala Ala Glu Asp Asp Asp Ala Leu
 500 505 510
 Arg Ile Ala Thr His Leu Tyr Ile Ile Ala Ser Ser Ile Gly Tyr Val
 515 520 525
 Arg Ser Asp Thr Gln Phe Phe Glu Thr Ala Ser Val Asn Val Ile Gly
 530 535 540
 Tyr Ile Ala Asn Leu Glu Asp Ala Gly Ile Tyr Glu Ala Ile Pro Leu
 545 550 555 560
 Tyr Ala Ser Leu Leu Pro Ala Pro Gln Thr His Ser Val Leu Gly Arg
 565 570 575
 Val Leu Ile Glu Ile Leu Asp Pro Arg Glu Arg Lys Gln Gln Val Arg
 580 585 590
 Leu Ile Glu Lys Tyr Asp Ile Asn Ile Glu Ala Val Leu Glu Asp Gln
 595 600 605
 Trp Asn Trp Ile Ser Ser Thr Val Ser Ala Val Glu His Thr Arg Thr
 610 615 620
 Val Lys Arg Tyr Pro Lys Val Val Arg Arg Asp Asp Gly Thr Arg Glu
 625 630 635 640
 Leu Val Pro Val Lys Thr Asp Phe Ile Gly Thr Glu Ile Ser Arg Ser
 645 650 655
 Asp Glu Arg Leu Ile Arg Ser Leu Glu Trp Leu Arg Tyr Val Asp Gly
 660 665 670
 Gln Trp Gly Arg Ile Cys His Leu Gly Ala Phe Leu Tyr Arg Lys Phe
 675 680 685
 Tyr Cys Glu Ser Pro Leu Phe Cys Trp Leu Arg Gln Glu Tyr
 690 695 700

<210> 31161
 <211> 70
 <212> PRT
 <213> A.fumigatus

<400> 31161
 Ile Arg Tyr Leu Leu Ile Cys Leu Arg Ile Leu Phe Arg Tyr Ile Cys
 1 5 10 15
 Thr Ser Tyr Arg Met Ser Gln Gln Leu Gly His Asn Met Leu Tyr Ala
 20 25 30
 Val Ala Glu Asn Thr Leu Lys Ala Met Val Arg Asp Pro Ala Pro Arg
 35 40 45
 Val Lys Thr Ile Gln Met Ser His Ile Pro Lys Arg Val Ser Lys Asp
 50 55 60
 Leu Arg Arg Val Pro Leu
 65 70

<210> 31162
 <211> 61
 <212> PRT
 <213> A.fumigatus

<400> 31162
 Gln Tyr Arg Ser Leu Phe Ser Pro Asn Phe Ala Cys Ser Phe Gln Ser
 1 5 10 15
 Ile Phe Ala Ser Asn Phe Ile Tyr Asp Thr Ser Ser Leu Ser Ser Gln
 20 25 30
 Gln Ala Tyr Leu Pro Gly Thr Thr Cys Val Ala Asp Arg Thr Thr Val
 35 40 45
 Ser Ser Leu Leu Ala Asp Cys Val Thr Ile Arg Phe Pro
 50 55 60

<210> 31163
 <211> 390
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (9)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31163
 Asp His Leu Asn Leu Asp Leu Asp Xaa Pro Phe Asp Asp Asp Gly Ala
 1 5 10 15
 Thr Ala Arg Ala Ile Gln Gln Gln Arg Arg Glu Glu Ala Asn Gln Arg
 20 25 30
 Glu Phe Arg Ala Trp Gln Arg Arg Phe Glu Val Ala Glu Arg Gln Gly
 35 40 45
 Gly Ser Asn Arg Phe Arg Asp Thr Ala Ala Leu Leu Asp Ile Glu Ala
 50 55 60
 Pro Arg Pro Ser Arg Pro Arg Val Pro Arg Glu Pro Thr Pro Glu Pro
 65 70 75 80
 Glu Ser Leu Glu Glu Met Arg Ala Trp Asn Ala Leu Glu Arg Ala Arg
 85 90 95

Glu Ile Glu Asn Asn Pro Ser Ala Ala Arg Lys Arg Lys Glu Pro Thr
 100 105 110
 Leu Ser Pro Ser Pro Glu Pro Thr Glu Pro Glu Arg Lys Leu Lys Arg
 115 120 125
 Pro Arg Thr Arg Arg Pro Gln Glu Leu Ala Ala Leu Ala Leu Gln Asn
 130 135 140
 Gly Glu Ser Ser Arg Ala Ala Ala Gln Ala Ser Ala Arg Ile Asn Glu
 145 150 155 160
 Gly Ser Ser Glu Pro Ser Phe Leu Gln Ser Leu Leu Lys Glu Val Glu
 165 170 175
 Glu Ala Ser Asn Pro Ser Gly Ser Asn Ser His Gly Pro Ser Ala Pro
 180 185 190
 Val Ser Val Ala Pro Thr Asp His Ser Ser Ile Gly Pro Ser Ser Pro
 195 200 205
 Pro Ile Ser Pro Ala Pro Ser Asn Gln Ser Ser Pro Arg Ile Ser Ser
 210 215 220
 Thr Thr Pro Pro Pro Tyr Pro Arg Ser Arg Pro Ile Ser Pro Val Gln
 225 230 235 240
 Leu Ala Ser Pro Thr Glu Gln Pro Ser Pro Pro Phe Ser Pro Ile Val
 245 250 255
 Ser Pro Ser Gly Ser His Ser Asp Val Arg Glu Thr Thr Pro Ser His
 260 265 270
 Val Gly Ser Ser Arg Pro Arg Ser Arg Ile Pro Arg Ala Ala Leu Arg
 275 280 285
 Leu Thr Ala Arg Ser Asn Glu Ser Ser Pro Thr Arg Pro Asp Leu Ser
 290 295 300
 Leu Thr Val Lys Ser Asp Ile Gln Lys Leu Val Gly Gly Ala Leu Lys
 305 310 315 320
 Pro Tyr Tyr Arg Ser Lys Val Val Ser Lys Asp Gln Tyr Thr Asp Ile
 325 330 335
 Asn Arg Thr Ile Ser Arg Met Leu Tyr Glu Arg Val Gly Asn Ala Gln
 340 345 350
 Ser Leu Asp Ala Glu Thr Lys Asn Asn Phe Gly Lys Ile Ala Ala Glu
 355 360 365
 Glu Val Lys Lys Ala Ile Asp Gly Leu Arg Ala Lys Asp Glu Asp Ser
 370 375 380
 Leu Ala Asp Ser Ser Ser
 385 390

<210> 31164

<211> 235

<212> PRT

<213> A.fumigatus

<400> 31164

Phe His His Pro Arg Thr Thr His Glu Ser Glu Val Ser Trp Asp Gln
 1 5 10 15
 Leu Leu Gly Asp Tyr Cys Gln Val His Arg Ser Val Trp Thr Arg Ser
 20 25 30
 Leu Pro Trp Thr Arg Trp Gly Trp Gln Leu Asn Phe Asp Asp Pro Gln
 35 40 45
 Gln Tyr Thr Met Ala Lys Val Lys Ile Thr Thr Ile Pro Glu Ala Asp
 50 55 60
 Val Ser Thr Asn Tyr Ser Val Gly Asp Ile Val Lys His Cys Tyr Asp
 65 70 75 80
 Thr Gly Tyr Val Ser Glu Lys Pro Gly Lys His Thr Gly Ser Asn Gly

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<210> 31165
<211> 619
<212> PRT
<213> A.fumigatus
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<400>	31	165														
Met	Arg	Asp	Pro	Thr	Gly	Pro	Asp	Ile	Tyr	Glu	Ser	Ser	Asp	Leu	Glu	
1				5					10					15		
Asp	Leu	Glu	Pro	Gln	Pro	Gly	Ile	His	Thr	Ser	Ser	Pro	Pro	Gly	Asp	
			20					25					30			
Pro	Leu	Pro	Arg	Asn	Ser	Thr	Gly	Glu	Gly	Ser	Asp	Val	Ser	Glu	Pro	
		35					40					45				
Ile	Cys	Met	Asp	Ile	Ser	Glu	Ser	Ser	Asp	Ser	Gly	Asp	Pro	Glu	Pro	
	50					55					60					
Gln	Pro	Gly	Val	His	Thr	Ser	Ser	Ala	Pro	Arg	Glu	Pro	Ser	Pro	Arg	
65					70					75					80	
Thr	Ser	Ile	Gly	Glu	Gly	Cys	Asp	Val	Ser	Glu	Arg	Ala	Thr	Ile	Asp	
				85					90					95		
Ile	Ser	Glu	Ser	Ser	Asp	Ser	Gly	Asp	Pro	Glu	Pro	Gln	Pro	Gly	Ala	
			100					105					110			
His	Thr	Ser	Ser	Pro	Pro	Arg	Glu	Pro	Ser	Tyr	Pro	Thr	Ser	Thr	Gly	
		115					120					125				
Glu	Arg	Ser	Asp	Val	Asn	Glu	Pro	Ile	Arg	Met	Asp	Ile	Phe	Glu	Ser	
	130					135					140					
Ser	Asp	Ser	Glu	Asp	Leu	Gly	Pro	Gln	Pro	Gly	Val	Gln	Ser	Asp	Val	
145				150						155				160		
Gly	Ile	Lys	Glu	Arg	Glu	Arg	Thr	Glu	Ser	Asp	Glu	Asp	Glu	Leu	Gly	
				165					170					175		
Arg	Glu	Glu	Gln	Lys	Arg	Arg	Glu	Arg	Glu	Pro	Leu	Leu	Arg	Gly	Ala	
			180				185						190			
Glu	Glu	Gln	Val	Glu	Asn	Glu	Arg	Phe	Glu	Cys	Lys	Val	Val	Glu	Thr	
		195				200						205				
Glu	Gln	Gly	Leu	Leu	Val	Arg	Glu	Glu	Leu	Ser	Asp	Gly	Glu	Arg	Gln	
	210					215					220					
Arg	Asp	Asp	Ala	Lys	Asp	Asp	Ala	His	Val	Thr	Gln	Gln	Glu	Gly	Asn	
225					230					235					240	

Glu Arg Ala Thr Val Ala Lys Ala Leu Leu Ala Asp His Gln Gly Leu
 245 250 255
 Arg Thr Glu Glu Asp Leu Met Val Pro Ala Ala Thr Ala Lys Glu Val
 260 265 270
 Glu Glu Leu Leu Asn Glu Met Leu Gln Gly Lys Ser Gly Leu Arg Ala
 275 280 285
 Ala Asn Glu Asp Ala Ser Val Pro Glu Glu Gln Val Ser Leu Glu Arg
 290 295 300
 Ala Asp Ala Leu Ala Arg Leu Glu Ser Lys Ala Glu Ala Leu Thr Val
 305 310 315 320
 Glu Leu Glu Asp Met Val Glu Gly Ser Asn Glu Ile Val Ser Ser Val
 325 330 335
 Gly Gly Arg Leu Ser Pro Val His Ser Glu Gly Thr Thr Glu Thr Ala
 340 345 350
 Gly Ala Ala Glu Leu Gly Pro Ser Arg Gln Val Gln Glu Arg His Val
 355 360 365
 Ala Ser Leu Pro Gly Pro Glu Gln Ala His Lys Glu Ala Val Glu Arg
 370 375 380
 Arg Ala Ala Glu Glu Ser Leu Phe Asp Gly Pro Leu Thr Glu Asp Gln
 385 390 395 400
 Thr Ile Glu Glu Ala Gln Glu Asn Glu Pro Ile Gly Thr Ala Ala Val
 405 410 415
 Pro Ser Lys Arg Lys Arg Ser Ser Ser Leu Arg His Glu Gln Asp Ala
 420 425 430
 Gln Ile Arg Val Arg Glu Ile Lys Ala Val Arg Glu Ser Lys Arg Val
 435 440 445
 Lys Gln Ser Gln Val Gly Glu Ser Gly Thr Pro Gly Ala Ser Gln Val
 450 455 460
 Glu Leu Ala Phe Pro Leu Arg Ala Val Asn Leu Glu Glu Arg Val Ser
 465 470 475 480
 Glu Gly Leu Glu Ser Thr Ala Ser Gly Pro Gly Ser His Glu Gln Pro
 485 490 495
 Asp Asn Arg Pro Glu Val Pro Ala Pro Leu Ala Pro Glu Ser Arg Asp
 500 505 510
 Gly Glu Leu Pro His Asp Val Pro Pro Gly Gln Arg Val Thr Leu Thr
 515 520 525
 Phe His Ala Tyr Asp Ser Gly Arg Trp Thr Arg Thr Asp Thr Val Ser
 530 535 540
 Val Ser Leu Asp Asn Pro Thr Glu Ala Gln Ile Ile Ala Asp Arg Tyr
 545 550 555 560
 Ala Arg Asp Arg Ser Lys Asn Ala Arg Phe Tyr Asp Glu Gly Leu Arg
 565 570 575
 Lys Val Ala Ala Asp Glu Cys Val Arg Ala Ala Ile Val Asp Gly Ser
 580 585 590
 Phe Lys Ile Leu Met Ser Phe Gly Lys Asp Leu Val Val Thr Arg Phe
 595 600 605
 Leu Val Ala Ser Val Lys Gln Leu Leu Gln Lys
 610 615

<210> 31166

<211> 145

<212> PRT

<213> A.fumigatus

<400> 31166

Ser Ser Val Ser Gly Pro Ser Asn Ser Asp Ser Ser Ala Ala Arg Leu

11967

1 5 10 15
 Ser Thr Ala Ser Leu Trp Ala Cys Ser Gly Pro Gly Arg Asp Ala Thr
 20 25 30
 Cys Leu Ser Trp Thr Cys Arg Glu Gly Pro Ser Ser Ala Ala Pro Ala
 35 40 45
 Val Ser Val Val Pro Ser Leu Cys Thr Gly Leu Arg Arg Pro Pro Thr
 50 55 60
 Glu Glu Thr Ile Ser Leu Leu Pro Ser Thr Ile Ser Ser Asn Ser Thr
 65 70 75 80
 Val Arg Ala Ser Ala Leu Leu Ser Ser Arg Ala Arg Ala Ser Ala Leu
 85 90 95
 Ser Arg Leu Thr Cys Ser Ser Gly Thr Leu Ala Ser Ser Leu Ala Ala
 100 105 110
 Arg Asn Pro Asp Phe Pro Trp Ser Ile Ser Leu Arg Ser Ser Ser Thr
 115 120 125
 Ser Phe Ala Val Ala Ala Gly Thr Ile Arg Ser Ser Ser Val Leu Ser
 130 135 140
 Pro
 145

<210> 31167

<211> 213

<212> PRT

<213> A.fumigatus

<400> 31167

Arg Ser Pro Ser Asp Ser Ser Ser Arg Thr Lys Ser Pro Cys Ser Val
 1 5 10 15
 Ser Thr Thr Leu His Ser Asn Arg Ser Phe Ser Thr Cys Ser Ser Ala
 20 25 30
 Pro Leu Arg Arg Gly Ser Arg Ser Leu Leu Phe Cys Ser Ser Arg Pro
 35 40 45
 Ser Ser Ser Ser Ser Asp Ser Val Arg Ser Arg Ser Phe Ile Pro Thr
 50 55 60
 Ser Asp Cys Thr Pro Gly Cys Gly Pro Arg Ser Ser Glu Ser Glu Leu
 65 70 75 80
 Ser Lys Met Ser Ile Arg Ile Gly Ser Phe Thr Ser Asp Leu Ser Pro
 85 90 95
 Val Glu Val Gly Tyr Glu Gly Ser Leu Gly Gly Asp Asp Val Cys Ala
 100 105 110
 Pro Gly Cys Gly Ser Gly Ser Pro Glu Ser Glu Leu Ser Glu Met Ser
 115 120 125
 Ile Val Ala Arg Ser Leu Thr Ser His Pro Ser Pro Met Glu Val Arg
 130 135 140
 Gly Glu Gly Ser Leu Gly Ala Asp Asp Val Cys Thr Pro Gly Cys Gly
 145 150 155 160
 Ser Gly Ser Pro Glu Ser Glu Leu Ser Glu Met Ser Ile His Ile Gly
 165 170 175
 Ser Leu Thr Ser Asp Pro Ser Pro Val Glu Phe Arg Gly Lys Gly Ser
 180 185 190
 Pro Gly Gly Asp Asp Val Cys Ile Pro Gly Cys Gly Ser Arg Ser Ser
 195 200 205
 Lys Ser Glu Leu Ser
 210

<210> 31168

<211> 141
 <212> PRT
 <213> A.fumigatus

<400> 31168

Tyr Arg Ser Arg Ser Glu Tyr Lys Lys Arg Val Tyr Pro Leu Gly Asn
 1 5 10 15
 Val His Ser Thr Thr Ser Leu Ile Leu Pro Ser Ser Lys Thr Ser His
 20 25 30
 Thr Cys Pro Arg Thr Thr Val Thr Met Lys Phe Leu Ala Ile Ala Thr
 35 40 45
 Leu Leu Ala Ser Ala Ser Ala Thr Ile Val Tyr Pro Tyr Thr Ser Ala
 50 55 60
 Ser Cys Ser Gly Ser Thr Val Gly Lys Ile Thr Ser Cys Gly Cys Thr
 65 70 75 80
 Asn Met Ser Gly Asn Tyr Lys Ile Lys Gly Ala Lys Leu Asp Phe Gln
 85 90 95
 Lys Ala Thr Ala Ser Phe Tyr Lys Gly Arg Asn Cys Glu Gly Val Arg
 100 105 110
 Ile Ser Lys Ala Ser Asp Gln Ser Cys Val Lys Leu Pro Val Gly Trp
 115 120 125
 Glu Ser Phe Gly Ser Val Arg Ile His Gly Gly Thr Cys
 130 135 140

<210> 31169
 <211> 184
 <212> PRT
 <213> A.fumigatus

<400> 31169

Pro Arg Pro His Arg Ala Val Ile Leu Leu Leu Gly Leu Ser Ala Ile
 1 5 10 15
 Ser Trp Tyr Thr Gly Tyr Ile Met Gly Gln Phe Lys Leu Arg Phe Pro
 20 25 30
 Gln Ile His Ser Met Gly Asp Ala Gly Glu Leu Leu Met Gly Arg Phe
 35 40 45
 Gly Arg Glu Leu Phe Gly Ile Gly Gln Leu Leu Phe Leu Ile Phe Leu
 50 55 60
 Met Ala Ser His Ile Leu Thr Phe Ser Val Val Phe Asn Thr Ile Thr
 65 70 75 80
 Asn His Gly Thr Cys Thr Ile Val Phe Gly Val Val Gly Leu Val Val
 85 90 95
 Ser Phe Ile Gly Ala Leu Pro Arg Thr Met Gly Lys Val Tyr Trp Met
 100 105 110
 Ser Met Ala Cys Thr Tyr Pro Phe Ser Ala Ile Asp Ser Gln Pro Thr
 115 120 125
 Asp Asn Cys Thr Ala Cys Ile Ser Ile Val Thr Ala Thr Val Val Thr
 130 135 140
 Met Ile Ala Ile Gly Val Gln Ala Pro Asp His Val His Val Asn Val
 145 150 155 160
 Thr Thr Lys Val Ser Phe Gln Asp Ala Phe Leu Ala Val Thr Asn Ile
 165 170 175
 Ile Phe Ala Tyr Ser Thr Arg Phe
 180

<210> 31170

<211> 157
 <212> PRT
 <213> A.fumigatus

<400> 31170

Leu Leu Phe Ile Ser Phe Pro Val Ala Asn Ser Ala Leu Val Ala His
 1 5 10 15
 Val Ala Phe Phe Gly Phe Ile Ser Glu Met His Asp Pro Arg Asp Phe
 20 25 30
 Pro Lys Ser Leu Thr Met Leu Gln Val Val Asp Thr Ser Leu Tyr Ile
 35 40 45
 Val Thr Ala Met Val Ile Tyr Arg Tyr Ala Gly Pro Asp Val Ala Ser
 50 55 60
 Pro Ala Leu Ser Ser Ala Gly Pro Leu Met Lys Lys Val Ala Tyr Gly
 65 70 75 80
 Leu Ala Ile Pro Thr Val Val Ile Ala Gly Val Val Phe Gly His Val
 85 90 95
 Ala Cys Lys Tyr Ile Tyr Val Arg Ile Phe Arg Gly Ser Ala His Met
 100 105 110
 His Gln Asn Ser Phe Leu Ala Ile Gly Ser Trp Val Ala Ile Ala Leu
 115 120 125
 Gly Val Trp Val Val Ala Trp Val Ile Ala Glu Ser Ile Pro Val Phe
 130 135 140
 Asn Glu Leu Leu Ser Leu Ile Val Trp Ser Ile Leu Leu
 145 150 155

<210> 31171
 <211> 130
 <212> PRT
 <213> A.fumigatus

<400> 31171

Leu Ala Ser Ser Pro Leu His Ile Ile Met Thr Asp Trp Ala Ala Lys
 1 5 10 15
 Val Lys Thr Ile Gly Leu Thr Gln Val Phe Cys Ser Lys Asp Lys Pro
 20 25 30
 Leu Val Asp Ile Val Phe Val His Gly Leu Asn Gly His Pro Tyr Asn
 35 40 45
 Thr Trp Ser Thr Lys Asp Pro Pro Val Phe Trp Pro Ala Asp Leu Leu
 50 55 60
 Pro Ser Leu Leu Glu Pro Cys Lys Val Arg Ile Leu Thr Tyr Gly Tyr
 65 70 75 80
 Asn Ala Asn Val Thr Ala Phe Thr Asp Gly Ala Ser Lys Asp His Ile
 85 90 95
 His Gln His Ala Glu Thr Leu Ala Ser Thr Leu Ala Ala Asn Arg Asn
 100 105 110
 Val Ser Tyr Val Tyr Ser Pro Leu Tyr Arg Asp Leu Ala Lys Thr Ala
 115 120 125
 Glu Leu
 130

<210> 31172
 <211> 219
 <212> PRT
 <213> A.fumigatus

<400> 31172

Leu Arg His Cys Pro Asp Arg Pro Ile Ile Phe Val Cys His Ser Leu
 1 5 10 15
 Gly Gly Leu Val Val Lys Arg Ala Arg Ile Asn Gly Lys Thr Phe Pro
 20 25 30
 Ile Lys Lys Met Asn Pro Phe Arg Ser Ile Leu Phe Pro His Tyr Gly
 35 40 45
 Ile Leu Ser Trp Gly Asp Pro Pro Arg Val Lys Ile Ser Lys Trp Gly
 50 55 60
 Val Leu Leu Gln Asn Ile Cys Ser Ala Val Leu Pro Lys Lys Phe Met
 65 70 75 80
 Glu Ser Ser Pro Gln Leu Ile Lys Ala Leu Arg Thr Asn Asn Glu Thr
 85 90 95
 Leu Gln Asn Ile Asn Ser Leu Phe Ala Asp Ile Met Gly Arg Phe His
 100 105 110
 Leu Tyr Phe Phe His Glu Thr Arg Ser Thr Asp Val Lys Gly Thr Arg
 115 120 125
 Glu Leu Ile Val Asp Glu Ser Ser Ala Ala Pro Tyr Phe Glu Gly Val
 130 135 140
 Glu Arg Met Gly Ile Glu Ala Asp His Ser His Met Cys Lys Phe Ala
 145 150 155 160
 Asp Glu Asp Ala Pro Gly Phe Glu Ala Val Ala Glu Ala Leu Leu Arg
 165 170 175
 Tyr Ser Arg Asp Ala Pro Leu Thr Ile Phe Asp Arg Trp Val Glu Glu
 180 185 190
 Glu Lys Thr Arg Leu Val Ile Arg Gln Thr Lys Ala Lys Glu Ile Phe
 195 200 205
 Asn Asn Gly Arg Ser Val Met Cys Asn Lys Pro
 210 215

<210> 31173

<211> 564

<212> PRT

<213> A.fumigatus

<400> 31173

His Asp Ile Phe Leu Phe Ser Arg Val Gln Ser Phe His Ile Ala Met
 1 5 10 15
 Ala Gly His Ala Thr Ala Pro Ala Glu Pro Ser Gln Ala Asn Gly Ser
 20 25 30
 Thr Gly Leu Asp Pro Ser Thr Thr Asn Pro Tyr Glu Thr Asn Pro Glu
 35 40 45
 Leu Ile Pro Pro Thr Asp Pro Phe Leu Ser Arg Ser Arg Gln Tyr Gly
 50 55 60
 Arg Tyr Ala Pro His Val Asp Asp Phe Lys Pro Arg Tyr Asp Gly Trp
 65 70 75 80
 Tyr Gln Ala Glu Pro Asp Ala Ile Ser Tyr Trp Glu Glu Ile Val Arg
 85 90 95
 Thr Phe Cys Thr Pro Gln Asn Ser Leu Asn Val Pro Gly Thr Arg Glu
 100 105 110
 Val Tyr Ala Ala Gly Ser Val Leu Ile Lys Ile Asp Gln Glu Pro Ala
 115 120 125
 Ala Gly Ala Ala Ala Glu Arg Tyr Ser Asn Val Asn Thr Asn Glu Leu
 130 135 140
 Ser Ala Ala Arg Arg Ala Gln Asp Ala Leu Gln Glu Leu Gly Val Ala
 145 150 155 160

Ile Pro Ile Ile Tyr Phe Cys Gly Thr Val Asp Gly Lys Asn Val Thr
 165 170 175
 Val Glu Ser Arg Ile Pro Gly Val Ser Leu Glu Val Ala Trp Lys Tyr
 180 185 190
 Leu Thr Ile Glu Gln Ile Gly Ala Phe Lys Gln Gln Cys Arg Arg Val
 195 200 205
 Ile Gln Arg Leu Ala Leu Val Glu Pro Ala Pro Asp Ser Ala Ser Tyr
 210 215 220
 Val Cys Gly Glu Leu Asn Ser Gln Ser Pro Pro Gly Val Glu Asp Ser
 225 230 235 240
 Glu Arg Asp Ile Leu Phe Gln Gly Arg Lys Gly Thr Glu Gln Leu His
 245 250 255
 Leu Val His Asn Asp Met Ile Arg Ser Asn Ile Val Val Lys Asp Gly
 260 265 270
 Arg Ile Val Gly Ile Leu Gly Trp Arg Gln Cys Gly Phe Phe Gly Phe
 275 280 285
 Glu Arg Ala Lys Gln Ile His Arg Gln Phe Arg Ile Pro Glu Arg Pro
 290 295 300
 Val Ile Asp Asn Gly Gly Val Asn Val Thr Gln Val Trp Ala Asp Leu
 305 310 315 320
 Tyr Asp Asp Ile Pro Asp Val Gly Gly Thr Asn Gly Phe Pro Asp His
 325 330 335
 Gln Thr Pro Val Ala Pro Glu Val Lys Ile Glu Pro Leu Gln Pro Ser
 340 345 350
 Leu Asp Lys Tyr Pro Pro Ser Asn Glu Ala Glu Thr Leu Pro Ala Leu
 355 360 365
 Ala Gln Leu Asp Gly Thr Leu Leu Pro Glu Glu His Pro Thr Pro Arg
 370 375 380
 Lys Val Ala Asp Leu Lys Ser Glu Leu Ala Ser Arg Ala Ser Ser Ala
 385 390 395 400
 Asp Arg Ser Ser Pro Ser Gly Ser Thr Lys Ala Ala Gly Lys Arg Lys
 405 410 415
 Pro Gly Pro Ser Ala Ser Lys Lys Gly Thr Ala Lys Lys Gln Ala Thr
 420 425 430
 Lys Lys Arg Lys Ile Asp Glu Leu Ala Ser Glu Asp Ala Glu Asn Arg
 435 440 445
 Arg Ser Asn Thr Pro Ser Ser Thr Arg Ala Ser Arg Thr Pro Gly Thr
 450 455 460
 Lys Lys Gln Gly Ser Val Ser Val Ala Gly Ser Pro Ala Pro Glu Gly
 465 470 475 480
 Thr Lys Arg Lys Lys Asn Ala Lys Lys Ala Lys Val Glu Lys Ala Glu
 485 490 495
 Glu Glu Glu Glu Pro Glu Glu Asp Ser Ser Glu Asp Asp Gly Val Phe
 500 505 510
 Cys Ile Cys Arg Lys Gly Asp Asp His Thr Trp Met Ile Ala Cys Asp
 515 520 525
 Gly Gly Cys Asp Asp Trp Phe His Gly Lys Cys Ile Asn Ile Asp Pro
 530 535 540
 Lys Asp Ala Asp Leu Ile Asp Lys Tyr Ile Cys Glu Ser Arg Leu Arg
 545 550 555 560
 Gln Leu Val Leu

<210> 31174

<211> 325

<212> PRT

<213> A.fumigatus

<400> 31174

Cys Thr Ser Gly Pro Asn Cys Lys Ala Glu Gly Lys Gly Trp Thr Thr
 1 5 10 15
 Trp Lys Pro Met Cys Arg Leu Lys Gly Cys Arg Lys Pro Ala Arg Val
 20 25 30
 Thr Gly Lys Asn Pro Ser Lys Tyr Cys Ser Asp Glu His Gly Arg Glu
 35 40 45
 Phe Met Arg Gln Arg Val Gln Gln Leu Asn Arg Ser Pro Gly Asp Pro
 50 55 60
 Ala Lys Lys Glu Trp Asp Glu Leu Gly Ser Arg Gly Gly Val Leu Thr
 65 70 75 80
 Thr Gly Asp Leu His Ala Val Val Met Ala Val Ser Ser Ala Glu Glu
 85 90 95
 Phe Arg Lys Leu Gly Glu Arg Ile Ile Ser Pro Pro Pro Glu Glu Glu
 100 105 110
 Asp Pro Val Thr Gly Ala Arg Leu Ser Lys Lys Leu Gly Leu Asp Val
 115 120 125
 Asp Pro Glu Gly Leu Thr Tyr Ser His Asp Glu Ala Ser Lys Leu Glu
 130 135 140
 Gln Leu Arg Lys Gln Arg Glu Asp Leu Phe His Arg Arg Asp Val Leu
 145 150 155 160
 Asn Ala Arg Ser Thr Phe Met Ala Leu Val Arg Gln Arg Ser Lys Ser
 165 170 175
 Ile Val Glu Lys Leu Lys Gln Thr Asp Pro Lys Gly Gly Trp Lys Asp
 180 185 190
 Ile Cys Gly Phe Asp Thr Arg Leu Ala Trp Ser Asp Glu Glu Phe Asn
 195 200 205
 Glu Trp Arg Leu Ser Lys Leu Gly Ala Lys Ala Leu Glu Glu Gly Thr
 210 215 220
 Pro Glu Ala Leu Ala Ser Ser Tyr Pro Asp Ala Val Asp Ala Asp Gly
 225 230 235 240
 Asp Thr Ala Met Asn Gly Thr Lys Ala Glu Glu Glu Asp Glu Asp Glu
 245 250 255
 Leu Ala Lys Leu Thr Arg Gly Val Cys Thr Lys Lys Arg Cys Glu Arg
 260 265 270
 His Lys Gln Trp Val Lys Val His Gln Ser Glu Val Leu Phe Glu Glu
 275 280 285
 Asn Lys Leu Lys Gln Asp Leu Ala Thr Cys Glu Lys Glu Ala His Asn
 290 295 300
 Val Val Gln Arg Ala Val Leu Arg Met Trp Ala Glu Lys Asp Asn Ala
 305 310 315 320
 Asp Asn Gly Thr Glu
 325

<210> 31175

<211> 239

<212> PRT

<213> A.fumigatus

<400> 31175

Leu Pro Gln Glu His Lys Ser Asn Leu Pro Arg His Leu Glu Tyr Ser
 1 5 10 15
 Leu Ser Leu Ser Cys Ile Ile Tyr Ile Tyr Ile Val Leu Val Ser Thr
 20 25 30

11973

Ala Arg Met Ile Arg Ser Gln Pro Pro Leu Ser Leu Pro Val His Pro
 35 40 45
 Leu Pro Arg Gly Gln Gly Leu Cys Val Leu Arg Arg Leu Leu Arg Val
 50 55 60
 Gln Pro Ser Ser Pro Gln Phe Arg Asn Gln Gln Leu Asp His Ile Leu
 65 70 75 80
 Lys Ser Pro Arg Arg Arg His Met Ala Asp Val Glu Pro Val Gln Ile
 85 90 95
 Arg Leu His Asp Pro Pro Leu His Leu Val Arg His Arg Arg Arg Ala
 100 105 110
 Ala Asn Arg His Gly Ala Gln Pro Thr Asp Arg Arg Leu Leu Arg His
 115 120 125
 His Pro Arg Arg Pro Ala Arg Asp Val Leu Ala Arg Gly Arg Glu Arg
 130 135 140
 Val Gln Asp Thr His Asp Pro Ala Arg Leu Cys Arg Val Gly Arg Arg
 145 150 155 160
 Asp Leu Leu Val Gln Arg Asp Pro Arg Asp Val Asp Ala Cys Pro Ser
 165 170 175
 Ala Glu Glu Asp Glu Pro Pro Asn His Gly Arg Val Phe Phe Gln Leu
 180 185 190
 Leu Val Leu Gly Pro Gly Leu Leu Val Arg Ala Ala Gln Asp Gly Cys
 195 200 205
 Glu Cys Arg Lys Asp Leu Asp Arg Pro Trp Ile Pro Pro Leu Leu Arg
 210 215 220
 Ser Gln Leu Ala Asp Pro Val Asp Phe Gly Pro Gln His Arg Trp
 225 230 235

<210> 31176

<211> 249

<212> PRT

<213> A.fumigatus

<400> 31176

Ser Ala Arg Ser Pro Arg Cys Pro Phe Pro Tyr Thr Leu Ser Arg Ala
 1 5 10 15
 Val Arg Ala Ser Ala Ser Cys Ala Gly Cys Ser Gly Tyr Ser Pro Arg
 20 25 30
 Leu Leu Ser Ser Gly Thr Asn Ser Ser Thr Thr Ser Ser Lys Val Pro
 35 40 45
 Gly Val Asp Thr Trp Pro Met Leu Asn Pro Ser Arg Ser Ala Ser Thr
 50 55 60
 Ile His Arg Ser Ile Ser Ser Ala Thr Val Ala Ala Leu Pro Ile Ala
 65 70 75 80
 Thr Gly Pro Ser Pro Pro Ile Asp Ala Phe Ser Ala Thr Thr Arg Gly
 85 90 95
 Val Gln Arg Gly Met Ser Leu Leu Val Val Val Asn Ala Ser Arg Ile
 100 105 110
 Leu Thr Ile Arg Pro Ala Ser Ala Glu Ser Ala Ala Val Ile Ser Trp
 115 120 125
 Ser Ser Gly Ile Arg Glu Met Ser Met Pro Val His Pro Leu Lys Arg
 130 135 140
 Thr Ser Pro Pro Thr Thr Asp Ala Tyr Phe Phe Ser Ser Ser Tyr Leu
 145 150 155 160
 Ala Arg Ala Ser Ser Ser Val Arg Pro Arg Met Gly Val Asn Val Ala
 165 170 175
 Lys Thr Leu Ile Asp Arg Gly Ser Arg Pro Phe Ser Ala Ala Ser Trp

11974

180 185 190
 Arg Ile Arg Ser Thr Leu Gly Arg Ser Thr Asp Gly Glu Trp Leu Glu
 195 200 205
 Thr Lys Ile Ala Ser Ala Cys Val Ala Ala Asn Ser Glu Pro Ala Ala
 210 215 220
 Asp Val Pro Ala Trp Lys Arg Lys Gly Ser Ala Pro Glu Ile Phe His
 225 230 235 240
 Gln Glu Arg Gln Asp Arg Asp Glu Leu
 245

<210> 31177
 <211> 203
 <212> PRT
 <213> A.fumigatus

<400> 31177
 Leu Ile Ala Val Leu Ala Leu Leu Val Lys Asn Leu Arg Ser Gly Pro
 1 5 10 15
 Leu Ser Leu Pro Gly Gly His Val Cys Ser Arg Leu Gly Val Cys Gly
 20 25 30
 His Ala Arg Arg Gly Asp Leu Arg Leu Glu Pro Leu Thr Ile Gly Ala
 35 40 45
 Ala Ala Gln Ser Arg Pro Asp Pro Pro Ala Gly Cys Gly Glu Gly Ala
 50 55 60
 Gly Ser Thr Val Asp Gln Gly Leu Cys Asp Ile His Thr His Pro Gly
 65 70 75 80
 Pro His Gly Arg Gly Gly Pro Gly Gln Val Arg Gly Ala Glu Lys Ile
 85 90 95
 Arg Val Arg Gly Trp Gly Ala Arg Pro Leu Gln Arg Met Asp Arg His
 100 105 110
 Arg His Leu Ala Asp Pro Ala Gly Pro Arg Asp His Gly Gly Arg Leu
 115 120 125
 Gly Arg Gly Gly Pro Asp Arg Glu Tyr Pro Gly Arg Val His Asp His
 130 135 140
 Glu Gln Gly His Pro Ala Leu Asp Ala Ala Gly Gly Gly Gly Glu Gly
 145 150 155 160
 Val Tyr Arg Trp Ala Gly Pro Arg Gly Asp Trp Gln Arg Gly Asp Gly
 165 170 175
 Gly Gly Arg Asp Gly Ala Val Asp Arg Gly Gly Gly Ser Gly Arg Val
 180 185 190
 Gln His Arg Pro Cys Val Asp Ala Gly Asp Phe
 195 200

<210> 31178
 <211> 254
 <212> PRT
 <213> A.fumigatus

<400> 31178
 Lys Ile Ser Gly Ala Asp Pro Phe Leu Phe Gln Ala Gly Thr Ser Ala
 1 5 10 15
 Ala Gly Ser Glu Phe Ala Ala Thr His Ala Glu Ala Ile Phe Val Ser
 20 25 30
 Ser His Ser Pro Ser Val Leu Arg Pro Lys Val Asp Arg Ile Arg Gln
 35 40 45
 Leu Ala Ala Glu Lys Gly Arg Asp Pro Arg Ser Ile Lys Val Phe Ala

50		55		60
Thr Phe Thr Pro Ile Leu Gly Arg Thr Asp Glu Glu Ala Arg Ala Lys				
65		70		80
Tyr Glu Glu Leu Lys Lys Tyr Ala Ser Val Val Gly Gly Leu Val Leu				
	85		90	95
Phe Ser Gly Trp Thr Gly Ile Asp Ile Ser Arg Ile Pro Leu Asp Gln				
	100		105	110
Glu Ile Thr Ala Ala Asp Ser Ala Glu Ala Gly Arg Ile Val Ser Ile				
	115		120	125
Leu Asp Ala Phe Thr Thr Thr Ser Lys Asp Ile Pro Arg Trp Thr Pro				
	130		135	140
Arg Val Val Ala Glu Lys Ala Ser Ile Gly Gly Leu Gly Pro Val Ala				
145		150		155
Ile Gly Ser Ala Ala Thr Val Ala Asp Glu Met Glu Arg Trp Ile Val				
	165		170	175
Glu Ala Asp Leu Asp Gly Phe Asn Ile Gly His Val Ser Thr Pro Gly				
	180		185	190
Thr Phe Glu Asp Val Val Glu Leu Leu Val Pro Glu Leu Arg Arg Arg				
	195		200	205
Gly Leu Tyr Pro Glu Gln Pro Ala Gln Asp Ala Glu Ala Leu Thr Ala				
	210		215	220
Arg Glu Arg Val Tyr Gly Lys Gly Gln Arg Gly Leu Arg Ala Asp His				
225		230		235
Pro Gly Ser Arg Tyr Lys Tyr Asp Val Tyr Val Asp Asp Ala				
	245		250	

<210> 31179

<211> 290

<212> PRT

<213> A.fumigatus

<400> 31179

Leu Thr Asn Leu Leu Met Ser Gly Leu Ile Gly Pro Val Glu Ile Gln				
1	5		10	15
Leu Pro Ala Glu Gly Glu Gly Asn Lys Ile Ser Val Ser Asn Val Ser				
	20		25	30
Glu Glu Tyr Leu Gln Met Ala Arg His Pro Ala Tyr Lys Asn Ser Thr				
	35		40	45
Leu Val Gln Lys Ser Ala Met Ala Ser Arg Leu Ile Val Thr Gly Ser				
	50		55	60
Ser Tyr Ile Gly Asn Val Leu Thr Ser Gly Ala Glu Ser Phe Thr Lys				
65		70		75
Lys Thr Lys Pro Asn Pro Lys Pro Met Thr Phe Ser Glu Thr Thr His				
	85		90	95
Ala Arg Phe Arg Lys Ile Gly Thr Leu Ser Gln Gly Ala Ala Glu Leu				
	100		105	110
Ser Ala Lys Thr Val Gly Gln Val Gly Lys Val Ala Gln Asn Phe Gly				
	115		120	125
Ala Ser Leu Thr Arg Arg Glu Gly Lys Gln Lys Gly Ile Asp Lys Tyr				
	130		135	140
Gly Asn Ser Ser Asp Tyr Lys Pro Gly Ile Leu Asn Lys Ser Leu Ile				
145		150		155
Ala Phe Ser Thr Leu Ala Asp Gly Ile Glu Gln Gly Ala Arg Asn Val				
	165		170	175
Leu Thr Ser Gly Ser Val Ala Ala Ser Thr Met Ile Ala His Arg Tyr				
	180		185	190

11976

Gly Ala Glu Ala Gly Ala Val Ala Ser Asn Val Thr Gly Gly Ile Lys
 195 200 205
 Asn Val Gly Leu Val Tyr Ile Asp Ala Ser Gly Val Ser Arg Lys Ala
 210 215 220
 Val Leu Lys Ser Val Ala Lys Gly Met Val Val Gly Arg Met Arg Asp
 225 230 235 240
 Gly Lys Gln Val Val Val Gly Thr Gly Asp Gly Gly Glu Val Pro Pro
 245 250 255
 Ser Val Gly Gly Pro Ser Gln Ser Leu Leu Gly Gly Arg Asp Pro Val
 260 265 270
 Ala Arg Arg Pro Ser Pro Ser Pro Thr Pro Pro Pro Ala Tyr Gly Ala
 275 280 285
 Ser Gly
 290

<210> 31180

<211> 66

<212> PRT

<213> A.fumigatus

<400> 31180

Thr Asn His Asn Pro Cys Gly Gly Ala His Cys Val Ser Val Val Ser
 1 5 10 15
 Val Asn Ile Ile Pro Arg Ser Ala Ala Thr Phe Cys Asn Pro Tyr Lys
 20 25 30
 Met Ala Leu Phe Lys Ala Leu Ile Ser Gln Gln Pro Asn Ile Tyr Leu
 35 40 45
 Asp Ile Met Leu Cys Met Thr Tyr Thr Ile His Ile Ser Asn Pro Ser
 50 55 60
 Tyr Asn
 65

<210> 31181

<211> 118

<212> PRT

<213> A.fumigatus

<400> 31181

Leu Pro Phe Leu Glu Leu Ala Thr His Val Trp Val Asn Ser Pro Ala
 1 5 10 15
 Met Gly Thr Phe Pro Gly Ser Gln Tyr Asp Leu Asn Thr Tyr Trp Gly
 20 25 30
 Trp Gly Ala Pro Cys Gly Arg Tyr Leu Gly Ser Gln Gly Glu Cys Ser
 35 40 45
 Asn Ile Leu Ser Arg Phe Cys Cys Ile Ser Thr Asp Ala Tyr Pro Arg
 50 55 60
 Met Leu Phe Val Ser Pro Ser Gly Leu Glu Gln Ala Lys Arg Leu Ile
 65 70 75 80
 Ser Ser Tyr Lys Gln Asn His Ile Pro Val Met Thr Pro Glu Leu Trp
 85 90 95
 Arg Ala Lys Lys Val Val Asp Ser Thr Leu His Pro Gly Val Leu Val
 100 105 110
 Val Phe Gly Cys Leu Ile
 115

<210> 31182

<211> 226
 <212> PRT
 <213> A.fumigatus

<400> 31182

Thr	Thr	Gly	Thr	Leu	Leu	Trp	Gln	Ile	Ala	Asn	Gln	Ser	Leu	Asn	Val
1				5					10					15	
Ala	Ile	Asn	Asn	Ala	Asn	Ala	Asn	Lys	Ser	Thr	Pro	Leu	Ser	Val	Ser
		20					25					30			
Gln	Met	Ala	Lys	Ser	Tyr	Leu	Met	Ala	Val	Ser	Ala	Ser	Cys	Ser	Val
	35					40				45					
Ala	Leu	Gly	Leu	Asn	Ala	Leu	Val	Pro	Arg	Leu	Lys	Asn	Ile	Ser	Pro
	50					55				60					
Asn	Thr	Lys	Leu	Ile	Leu	Gly	Arg	Leu	Val	Pro	Phe	Ala	Ala	Val	Ser
65				70					75					80	
Ser	Ala	Ser	Ala	Leu	Asn	Val	Phe	Leu	Met	Arg	Gly	Glu	Glu	Ile	Arg
			85					90						95	
Gln	Gly	Ile	Asp	Val	Tyr	Pro	Val	Leu	Ser	Glu	Glu	Glu	Lys	Lys	Lys
			100					105					110		
Arg	Glu	Glu	Thr	Gly	Glu	Pro	Val	His	Ser	Leu	Gly	Lys	Ser	Lys	Lys
			115					120				125			
Ala	Ala	Thr	Ile	Ala	Val	Gly	Glu	Thr	Ala	Ile	Ser	Arg	Val	Leu	Asn
	130					135					140				
Ala	Thr	Pro	Ile	Met	Val	Val	Pro	Pro	Leu	Ile	Leu	Val	Arg	Leu	Glu
145				150					155					160	
Lys	Thr	Ala	Trp	Leu	Lys	Ala	Arg	Pro	Arg	Met	Val	Thr	Pro	Ile	Asn
			165					170						175	
Leu	Gly	Leu	Ile	Leu	Ala	Thr	Ser	Leu	Phe	Ala	Leu	Pro	Leu	Ala	Leu
		180					185					190			
Gly	Ala	Phe	Pro	Gln	Arg	Gln	Ala	Ile	Ser	Ala	Gln	Ser	Leu	Glu	Glu
	195					200						205			
Glu	Phe	Trp	Gly	Arg	Gly	Gly	Lys	Asp	Gly	Gln	Val	Glu	Phe	Asn	Arg
	210					215					220				
Gly	Met														
225															

<210> 31183
 <211> 160
 <212> PRT
 <213> A.fumigatus

<400> 31183

Cys	Arg	Arg	Met	Leu	Leu	Ser	Asp	Ile	Ser	Gln	Val	Ser	Val	Gly	Tyr
1				5					10					15	
Gln	Leu	Thr	Phe	His	Lys	Tyr	Ser	Arg	Ala	Pro	Asn	Pro	Pro	Arg	Thr
		20					25					30			
Tyr	Leu	Ser	Glu	Thr	Ala	Asp	Ser	Thr	Ala	Ser	Leu	Val	Asp	Val	Asp
	35					40					45				
Ser	Pro	His	Val	Val	Ser	Val	Asp	Ser	Asp	Phe	Leu	Asn	Gln	Glu	Val
	50					55				60					
Lys	Thr	Thr	Thr	Gln	Ala	Asp	Arg	Leu	Glu	Arg	Glu	Ala	Gln	Glu	Lys
65				70					75					80	
Glu	Glu	Arg	Lys	Glu	Gln	Arg	Lys	Ala	Glu	Lys	Ala	Lys	Ala	Lys	Ala
			85					90					95		
Ala	Arg	Ala	Gly	His	Val	Ala	Lys	Arg	Asn	Pro	Val	Ile	Leu	Gly	Asn
			100					105					110		

11978

Ala Val Leu Tyr Ala Leu Val Gly Ala Ala Leu Gly Tyr Gly Ala Tyr
 115 120 125
 Arg Lys His Ala Glu Gly Lys Leu Ser Leu Lys Leu Val Gly Thr Trp
 130 135 140
 Thr Gly Ile Val Gly Ala Phe Ser Thr Val Asp Tyr Phe Val Ser Lys
 145 150 155 160

<210> 31184

<211> 66

<212> PRT

<213> A.fumigatus

<400> 31184

His Pro Arg Thr Pro Ala Ile Gln Ser Arg Met Ala Thr Thr Thr Ser
 1 5 10 15
 Arg Ala Ala Phe Glu Ala Val Phe Pro Thr Leu Ala Glu Asp Leu Leu
 20 25 30
 Ala His Ala Lys Lys Tyr Asn Leu Pro Glu Asn Ala Val Lys Trp Phe
 35 40 45
 Glu Gln Val Ser Pro Gly Arg Arg Ala His Leu Arg Leu Ile Ser Glu
 50 55 60
 Gln Pro
 65

<210> 31185

<211> 313

<212> PRT

<213> A.fumigatus

<400> 31185

Pro Ile Leu Phe Gln Lys Val Leu Asp Val Asn Val Pro Gly Gly Lys
 1 5 10 15
 Leu Asn Arg Gly Leu Ser Val Pro Asp Thr Gly Ile Ala Leu Leu Gln
 20 25 30
 Lys Pro Leu Thr Asp Glu Gln Phe Lys His Leu Ser Ile Leu Cys Trp
 35 40 45
 Leu Thr Glu Leu Leu Gln Ala Phe Phe Leu Val Ser Asp Asp Met Met
 50 55 60
 Asp Ser Ser Ile Thr Arg Arg Gly Gln Pro Cys Trp Tyr Arg His Pro
 65 70 75 80
 Gly Val Gly Leu Ile Ala Ile Asn Asp Ala Phe Met Leu Glu Ser Gly
 85 90 95
 Ile Tyr Val Ile Leu Lys Lys His Phe Arg Ser His Pro Ala Tyr Val
 100 105 110
 Asp Phe Leu Glu Leu Phe His Glu Thr Thr Trp Gln Thr Glu Leu Gly
 115 120 125
 Gln Leu Cys Asp Leu Ile Thr Ala Pro Glu Asp Lys Val Asp Leu Asp
 130 135 140
 Asn Phe Ser Met Glu Lys Tyr Met Phe Ile Val Thr Tyr Lys Thr Ala
 145 150 155 160
 Tyr Tyr Ser Phe Tyr Leu Pro Val Ala Leu Ala Leu Leu Tyr Leu Glu
 165 170 175
 Leu Ala Thr Pro Glu Asn Leu Gln Gln Thr His Asp Ile Leu Ile Pro
 180 185 190
 Leu Gly Gln Tyr Phe Gln Val Gln Asp Asp Tyr Leu Asp Ala Tyr Gly
 195 200 205

11979

Asp Pro Ala Val Ile Gly Lys Ile Gly Thr Asp Ile Gln Asp Asn Lys
 210 215 220
 Cys Ser Trp Leu Ile Asn Gln Ala Leu Gln Arg Cys Asn Thr Glu Gln
 225 230 235 240
 Arg Lys Leu Leu Asp Thr Ala Tyr Gly Arg Lys Asp Ser Glu Leu Glu
 245 250 255
 Ala Lys Val Lys Ala Leu Tyr Lys Glu Leu Asp Leu Glu Lys Val Tyr
 260 265 270
 Lys Glu Tyr Glu Glu Lys Thr Val Gly Glu Ile Arg Ser Lys Ile Ala
 275 280 285
 Ala Ile Asp Glu Ser Gln Gly Leu Lys Lys Glu Val Phe Glu Ala Phe
 290 295 300
 Leu Gly Lys Ile Tyr Lys Arg Thr Lys
 305 310

<210> 31186

<211> 455

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (179)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31186

Tyr Trp Gln Asp Ile Arg Pro Asp Trp Tyr His Asn Met Ser Ser Val
 1 5 10 15
 Met Glu Ala Gly Pro Val Val Arg Thr Asn Gln Leu Asp Phe Asp Glu
 20 25 30
 Glu Val Ile Tyr Lys Ser Thr Gln Tyr Leu Tyr Asp His Val Arg His
 35 40 45
 Arg Thr Asp Gln Pro Phe Cys Leu Thr Val Ser Met Thr His Pro His
 50 55 60
 Asp Pro Tyr Ala Met Thr Lys Glu Phe Trp Asp Leu Tyr Glu Asp Val
 65 70 75 80
 Asp Ile Pro Leu Pro Lys Thr Pro Ala Ile Pro Gln Asp Gln Gln Asp
 85 90 95
 Pro His Ser Gln Arg Val Leu Lys Cys Ile Asp Leu Trp Gly Lys Glu
 100 105 110
 Ile Pro Glu Glu Arg Ile Lys Ala Ala Arg Arg Ala Tyr Tyr Ala Ala
 115 120 125
 Cys Thr Tyr Val Asp Thr Asn Val Gly Lys Leu Leu Lys Val Leu Glu
 130 135 140
 Asn Cys Gly Leu Arg Asp Asp Thr Ile Val Val Phe Thr Gly Asp His
 145 150 155 160
 Gly Asp Met Leu Gly Glu Arg Gly Leu Trp Tyr Lys Met Val Trp Tyr
 165 170 175
 Glu Asn Xaa Ala Arg Leu Pro Met Ile Val His Ala Pro Asn Arg Phe
 180 185 190
 Ala Pro Lys Arg Val Ser Glu Asn Val Ser Thr Met Asp Leu Leu Pro
 195 200 205
 Thr Phe Ala Ala Met Ala Gly Ala Pro Leu Val Lys Glu Leu Pro Leu
 210 215 220
 Asp Gly Val Ser Leu Met Pro Tyr Leu Thr Gly Glu Glu Gly Val Lys
 225 230 235 240

11980

Thr Asp Thr Val Leu Gly Glu Tyr Met Ala Glu Gly Thr Gln Ser Pro
 245 250 255
 Thr Val Met Ile Arg Arg Gly Arg Trp Lys Phe Val Tyr Ser Leu Ile
 260 265 270
 Asp Pro Pro Met Leu Tyr Asp Leu Glu Asn Asp Pro Glu Glu Arg Val
 275 280 285
 Asn Leu Val Ala Gly Leu Ala Val Pro Ser Gln Ser Leu Ala Val Lys
 290 295 300
 Gly Ala Ala Val Asp Gln Val Lys Ser Thr Ala Leu Pro Thr Pro Ala
 305 310 315 320
 Asp Thr Pro Ser Glu Thr Pro Arg Ala Ser Pro Val Pro Gln Arg Ala
 325 330 335
 Asn Ser Ser Phe Pro Phe Pro Thr Pro Pro Arg Thr Pro Ser Pro Ala
 340 345 350
 Lys Leu Pro Val Ala Val Pro Ala Thr Thr Asp Pro Ala Thr Leu Leu
 355 360 365
 Ala His Phe Thr Glu Glu Val His Ala Arg Trp Asp Leu Lys Ala Ile
 370 375 380
 Gln Glu Asp Val Leu Arg Ser Gln Arg Arg Arg Arg Leu Val Tyr Ser
 385 390 395 400
 Ala Leu Ile Arg Gly Thr Pro Thr Ile Trp Asp Tyr Glu Pro Arg Ile
 405 410 415
 Asp Pro Ser Thr Gln Tyr Val Arg Asn Gln Gly Lys Gly Ala Leu Asp
 420 425 430
 Asp Val Glu Phe Ile Ser Arg Trp Pro Arg Val Leu Gln Gln Ala Ala
 435 440 445
 Asn Ala Met Gly Ala Lys Val
 450 455

<210> 31187

<211> 65

<212> PRT

<213> A.fumigatus

<400> 31187

Ser Val Ser Thr Pro Phe Leu Ser Ser Asp Cys Asp Asp Asn Asp Thr
 1 5 10 15
 Thr Met Ala Ala Lys Lys Pro Asn Ile Leu Tyr Ile Met Ala Asp Gln
 20 25 30
 Met Ala Ala Pro Leu Leu Ala Phe His Asp Lys Asn Ser Pro Ile Lys
 35 40 45
 Thr Pro Asn Leu Asp Arg Leu Ala Arg Glu Gly Val Val Phe Asp Ser
 50 55 60
 Ala
 65

<210> 31188

<211> 154

<212> PRT

<213> A.fumigatus

<400> 31188

Arg Thr Asn His Ser Pro Arg Gly Lys Cys Arg Trp Ser Val Ala Ala
 1 5 10 15
 His Ser His Glu Ala Gly Gln Val His Lys Ser Ala Phe Tyr Gln Pro
 20 25 30

11981

Glu	Gln	Cys	Asp	Ser	Leu	Arg	Gly	Ala	Asn	Asn	Gly	His	Met	Trp	Gly
		35					40				45				
Cys	Arg	Arg	Ala	Ile	Pro	Lys	Ala	Trp	Ser	Tyr	Ala	Pro	Ile	Trp	Asp
	50					55				60					
Gly	Asn	Arg	Thr	Gly	Pro	Leu	Glu	Gln	Thr	Ala	Arg	Glu	Pro	Thr	Val
65					70					75					80
Gly	Glu	Met	Ala	Leu	Cys	Gly	Ile	Lys	His	His	Thr	Phe	Pro	Ser	Gln
				85					90					95	
Thr	Val	Gln	Ile	Gly	Ser	Phe	Asp	Arg	Arg	Val	Phe	Val	Met	Glu	Gly
			100					105					110		
Gln	Lys	Gly	Ser	Gly	His	Leu	Val	Arg	His	Asn	Val	Glu	Asp	Val	Gly
	115						120					125			
Leu	Leu	Ser	Arg	His	Gly	Gly	Val	Val	Val	Val	Thr	Val	Thr	Arg	Lys
	130					135					140				
Glu	Arg	Ser	Arg	Asp	Arg	Leu	Asp	Glu	Thr						
145					150										

<210> 31189

<211> 442

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (121)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31189

Leu	Arg	Trp	Tyr	Ser	Lys	Thr	Arg	Asn	Gln	Val	His	Pro	Phe	Leu	Arg
1				5				10					15		
Val	Val	Leu	Glu	Val	Val	Lys	His	Gly	Trp	Val	Asp	Gln	Arg	Ile	Asp
		20						25				30			
Lys	Leu	Pro	Pro	Ala	Ala	Thr	Asp	His	Asp	Ser	Trp	Arg	Leu	Arg	Ala
	35					40					45				
Leu	Gly	His	Val	Leu	Ala	Gln	His	Arg	Val	Gly	Leu	Asp	Thr	Leu	Leu
	50					55				60					
Ala	Ser	Glu	Val	Arg	His	Gln	Arg	His	Thr	Ile	Gln	Arg	Lys	Leu	Leu
65				70						75				80	
Asp	Gln	Arg	Gly	Ser	Ser	His	Cys	Gly	Lys	Gly	Arg	Gln	Gln	Val	His
				85					90					95	
Gly	Arg	Asp	Val	Leu	Arg	Asn	Ala	Leu	Arg	Ser	Lys	Ala	Val	Arg	Gly
			100					105					110		
Met	His	Asp	His	Gly	Gln	Thr	Cys	Xaa	Val	Phe	Val	Pro	Asp	His	Leu
		115					120					125			
Val	Pro	Gln	Ala	Ser	Leu	Thr	Gln	His	Val	Ala	Val	Ile	Ala	Arg	Glu
	130					135					140				
Asn	Asp	Asp	Gly	Val	Val	Ala	Gln	Thr	Thr	Val	Leu	Gln	His	Leu	Gln
145					150					155				160	
Gln	Leu	Pro	Asp	Ile	Gly	Val	Asp	Val	Gly	Ala	Gly	Gly	Val	Val	Arg
				165					170					175	
Ala	Ala	Arg	Ser	Phe	Asp	Ala	Leu	Leu	Arg	Tyr	Leu	Leu	Ala	Pro	Gln
			180					185					190		
Val	Asn	Ala	Leu	Glu	Asp	Pro	Leu	Arg	Val	Gly	Ile	Leu	Leu	Val	Leu
	195						200					205			
Gly	Asn	Gly	Arg	Arg	Leu	Trp	Gln	Arg	Asn	Val	His	Val	Phe	Val	Gln
	210					215					220				

11982

Val Pro Glu Phe Leu Cys His Arg Val Arg Val Met Arg Met Gly His
 225 230 235 240
 Arg His Cys Gln Ala Glu Gly Leu Val Gly Thr Val Ala Asp Met Ile
 245 250 255
 Ile Lys Ile Leu Cys Arg Phe Val Asp Asp Phe Phe Val Lys Val Glu
 260 265 270
 Leu Val Gly Ala His Asp Arg Thr Cys Leu His His Arg Arg His Val
 275 280 285
 Val Ile Pro Val Gly Thr Asn Ile Leu Pro Ile Leu Val Leu Cys Val
 290 295 300
 Leu Gln Ala Glu Arg Asn Ala Thr His Arg Leu Val Pro Ile Asp Gly
 305 310 315 320
 Pro Thr Ile Val Pro Gly Val Asn Val Ala Gly Gln Ser Leu Leu Ile
 325 330 335
 Ala Met Lys Leu Val Arg Ser Thr Lys Val His Phe Thr Ser Gln Ser
 340 345 350
 Ser Val Ile Ala Phe Ala Ala Gln Ile Met Gly Ile Cys Gly Asp Val
 355 360 365
 Gly Gly Gln Phe Arg Arg Leu Gly Pro Thr Arg Gln Phe Gly Thr Gly
 370 375 380
 Thr Glu Arg Val Pro Leu Asn Lys Pro Arg Gly Asn Pro Gln Trp Gly
 385 390 395 400
 Lys Trp Pro Tyr Ala Glu Ser Asn Thr Thr Pro Ser Arg Ala Arg Arg
 405 410 415
 Ser Lys Leu Gly Val Leu Ile Gly Glu Phe Leu Ser Trp Lys Ala Arg
 420 425 430
 Arg Gly Ala Ala Ile Trp Ser Ala Ile Met
 435 440

<210> 31190

<211> 112

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (23), (41), (77)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31190

Asn Pro His Ile Cys Asp Leu Arg Thr Tyr Ala Ile Leu Ser Thr Arg
 1 5 10 15
 Gly Arg Val Leu Arg Thr Xaa Glu Val Asp Ala Glu Gly Asn Ala Thr
 20 25 30
 Asp Ala Val Pro Asn Gly Glu Glu Xaa Asn Asp Asp Gly Val Asp Gly
 35 40 45
 Glu Glu Ser Gln Asp Pro Ser Gly Ser Asn Asp Pro Lys Thr Ala Trp
 50 55 60
 Val Met Ala Leu Tyr Gln Asp Asp Ala Gly Glu Glu Xaa Gln Cys Arg
 65 70 75 80
 Arg Ser Ile Thr Ser Phe Gly Val Ser Glu Tyr Arg Ile Asn Asn Cys
 85 90 95
 Phe Gly Thr Gly Gln Gln Tyr Asn Glu Ala Phe Glu Ala Glu Asn Ile
 100 105 110

<210> 31191

<211> 273
 <212> PRT
 <213> A.fumigatus

<400> 31191

Leu	Thr	Pro	Ala	Ile	Leu	Pro	Ala	Pro	Cys	Glu	Asp	Gly	Pro	Gln	Ser
1				5					10					15	
Leu	Pro	Thr	Trp	Arg	Tyr	Phe	Ser	Ser	Cys	Ala	Pro	Arg	Thr	Lys	Ala
			20					25					30		
Val	Val	Lys	Pro	Thr	Ala	Pro	Arg	Asn	Pro	Pro	Lys	Pro	Ser	Gln	Glu
		35					40					45			
Thr	Leu	Lys	Phe	Ala	Gly	Arg	Arg	Pro	Glu	Gly	Leu	Gly	Lys	Leu	Glu
	50					55					60				
Arg	Lys	Val	Ala	Lys	Glu	Gly	Asp	Leu	Leu	Leu	Phe	Lys	Ala	Pro	Ser
65					70					75					80
His	Arg	Phe	Tyr	Val	Leu	Gly	Ala	Tyr	Gly	Ile	Ala	Ala	Phe	Cys	Leu
				85					90					95	
Ala	Tyr	Ser	Val	Tyr	Asn	Ser	Ser	Ile	Val	Phe	Gly	Asp	Pro	Val	Val
			100					105					110		
Ala	Leu	Pro	Met	Trp	Gln	Lys	Ser	Leu	Phe	Gly	Gly	Ile	Cys	Val	Met
		115					120					125			
Met	Ser	Val	Met	Gly	Thr	Val	Phe	Ile	Val	Lys	Thr	Ala	Arg	Leu	Ile
	130					135						140			
Lys	Ala	Ile	Asn	Ala	Ile	His	Leu	Asn	Gly	Lys	Thr	Tyr	Leu	Arg	Phe
145					150					155					160
Thr	Val	Arg	Ser	Met	Ile	Pro	Phe	Arg	Lys	Pro	Tyr	Arg	Phe	Asp	Ala
				165					170					175	
Leu	Pro	Arg	Gln	Ile	Ala	Phe	Ser	Arg	Arg	Leu	Val	Val	Ser	Pro	Glu
			180					185					190		
Ser	Leu	Lys	Pro	Gln	Thr	Thr	Pro	Asn	Ala	Gln	Pro	Ala	Arg	Val	Ser
		195					200					205			
Ile	Tyr	Arg	Ala	Pro	Leu	Thr	Lys	Ile	Ser	Gln	Val	Phe	Trp	Lys	Gly
	210					215					220				
Phe	Arg	Ser	Val	Arg	Gln	Leu	Phe	Thr	Gln	Glu	Asp	Ile	Ile	Leu	Leu
225					230					235					240
Glu	Val	Glu	Gly	Gln	Lys	Gly	Val	Phe	Arg	Met	Asp	Ser	Ala	Gly	Tyr
				245					250					255	
Ile	Ser	Glu	Asp	Phe	Leu	Val	Ile	Gly	Asn	Pro	Val	Ser	Ile	Arg	Ser
			260					265					270		

Tyr

<210> 31192
 <211> 92
 <212> PRT
 <213> A.fumigatus

<400> 31192

Val	Asn	Arg	Arg	Gly	Arg	Leu	Cys	Ser	His	Phe	Glu	Thr	Ser	Thr	Leu
1				5					10					15	
Leu	Leu	Gln	Ser	Trp	Asp	Ser	Gly	Cys	Leu	Ile	Ala	Arg	Trp	Gly	Asn
			20					25					30		
Leu	Phe	Ala	Leu	Ser	Phe	Ser	Val	Arg	Asp	Asn	Thr	Ile	Thr	Arg	Arg
		35					40					45			
Arg	Ile	Val	Leu	Thr	Tyr	Ser	Leu	Asp	Phe	Lys	Ser	Tyr	Lys	Gly	His
	50						55					60			

11984

His Val Leu Leu Phe Gly Asp Ala Tyr Phe Thr Ser Ile Ile Gly Pro
 65 70 75 80
 Asn Gly Ser Gly Lys Ser Asn Ser Cys Val Ser Leu
 85 90

<210> 31193

<211> 206

<212> PRT

<213> A.fumigatus

<400> 31193

Asn Lys Ser Lys Ser Gln Asp Ile Tyr Lys Trp His Thr Thr Asn Ala
 1 5 10 15
 Met Tyr Asn Pro Asn Pro Thr Thr Leu Lys Pro Gln Val Ser Asp Lys
 20 25 30
 Thr Pro Asn Phe Ala Ser Pro Gln Arg Pro Ile Gly Ile Asn His Ser
 35 40 45
 Met Gly Leu Thr Ser Ser Ala Thr Leu Asn Gly Ala Ser Val Leu Leu
 50 55 60
 Arg Thr Ser Ser Thr Val Thr Pro Ser Ala Ser Ser Thr Asn Val Asn
 65 70 75 80
 Pro Ser Val Lys Ser Thr Ser Lys Thr Gln Ser Ser Val Met Ile Arg
 85 90 95
 Leu Thr Gln Val Leu Pro Val Arg Gly Asn Ser His Cys Leu Thr Ile
 100 105 110
 Leu Gly Leu Pro Phe Leu Ser Val Cys Ser Ile Val Thr Thr Thr Leu
 115 120 125
 Val Ala Glu Gly Leu Asp Thr Arg Ser Ile Ala Pro Pro Lys Pro Leu
 130 135 140
 Ile Leu Pro Gly Ser Ile Pro Thr Ile Gln Ser Val Thr Ala His Asn
 145 150 155 160
 Glu Gly Arg Lys Glu Thr His Ser Trp Pro Gly His His Gly Arg Ser
 165 170 175
 Pro Ala Ser His Pro Glu Trp Ser Asp Arg Cys Val Gln Ser Gly Ser
 180 185 190
 Tyr Gln Thr Thr His His Cys Arg Thr Gln Pro His Arg Gly
 195 200 205

<210> 31194

<211> 421

<212> PRT

<213> A.fumigatus

<400> 31194

Ser Tyr Arg Gly Ala Ser Leu Gln Tyr Ser Gln Ser Gln His Ile Thr
 1 5 10 15
 Arg Glu Glu Arg Arg Leu Thr Val Gly Gln Val Thr Thr Gly Ala His
 20 25 30
 Leu His Arg Thr Gln Asn Gly Gln Ile Asp Ala Ser Arg Ala Asp His
 35 40 45
 Thr Lys Arg Leu Ile Thr Ala Glu His Ser Arg Thr Gly Asp Glu Gly
 50 55 60
 Asp Gly Leu Leu Ala Gly Ile Asp Gln Val Arg Val Leu Leu Ala Leu
 65 70 75 80
 Leu Arg Val Arg Ala Gln Thr Glu Asp Thr Ile Leu Arg Leu Glu His
 85 90 95

11985

His Phe His Arg Gly Val Asp Glu Val Gly Arg Gln His Gly His Ala
 100 105 110
 Asn Thr Gln Val Ser Ile His Ala Val Leu Glu Phe Leu Gly Gly Thr
 115 120 125
 Thr Asn Asp Thr Leu Pro Leu Arg Gly Arg Val Ala Leu Ala Gln Gly
 130 135 140
 Gly Arg Val Val Pro Ile Leu Phe Gly Lys Gly Val Phe Leu Asp Val
 145 150 155 160
 Leu Arg Arg Arg Ala Leu Asp His Thr Leu Asp Ile Asn Thr Arg Gln
 165 170 175
 Val Asp Ser Ser Arg Leu Asp Leu Thr Arg Phe Asn Asp Val Leu Gly
 180 185 190
 Leu Asp Asp Ser His Leu Gly Ile Ser Ala His Arg Thr Val Glu Val
 195 200 205
 Gly Cys Gly Val Pro Glu Leu Ala Val Thr Gln Leu Ile Arg Phe Pro
 210 215 220
 Cys Leu Asp Lys Gly Ile Val Thr Leu Asp Arg Leu Leu His His Ile
 225 230 235 240
 Ala Leu Ala Val Glu Asp Leu Asp Val Ala Arg Leu Thr Val Leu Ser
 245 250 255
 His Arg Ala Val Gly Val Met Leu Glu Arg Gln Leu Ala Gly Leu Asn
 260 265 270
 Asp Arg Ser Thr Gly Arg Trp Gly Lys Glu Gly Arg Asp Ala Gly Ala
 275 280 285
 Thr Gly Thr Thr Pro Leu Gly Gln Arg Ala Leu Trp Arg Gln Leu Gln
 290 295 300
 Leu Asp Phe Ala Gly Gln Val His Pro Leu Glu Gly Leu Val Leu Ser
 305 310 315 320
 Asn Ile Ala Gly Asn His Phe Leu Asp Leu Leu Arg Leu Glu Glu Gln
 325 330 335
 Thr Gln Ala Ser Thr Ile Asp Ala Cys Val Ile Ala Asp Asn Gly Gln
 340 345 350
 Ala Cys Asp Arg Gly Ile Gly Ala His Gly Ala Asp Gln Cys Val Gly
 355 360 365
 Asn Thr Gly Gln Thr Glu Ser Ser Gly Lys Lys Arg Gly Val Gly Leu
 370 375 380
 His Ile Leu Asp Gly Phe Leu Gly Arg Ser Tyr His Leu Val Asp Leu
 385 390 395 400
 Ile Pro Ala His Ala Ala Arg Glu Cys Ser Cys Lys Glu Ser Leu Met
 405 410 415
 Leu Glu Ser Ser Cys
 420

<210> 31195

<211> 119

<212> PRT

<213> A.fumigatus

<400> 31195

Val Ser Phe Leu Pro Ser Leu Cys Ala Val Thr Asp Cys Ile Val Gly
 1 5 10 15
 Met Leu Pro Gly Lys Ile Lys Gly Phe Gly Gly Ala Met Asp Leu Val
 20 25 30
 Ser Asn Pro Ser Ala Thr Lys Val Val Val Thr Met Glu His Thr Asp
 35 40 45
 Lys Lys Gly Asn Pro Lys Ile Val Lys Gln Cys Glu Phe Pro Leu Thr

11986

50 55 60
 Gly Lys Thr Cys Val Ser Arg Ile Ile Thr Glu Leu Cys Val Phe Asp
 65 70 75 80
 Val Asp Phe Thr Asp Gly Leu Thr Leu Val Glu Leu Ala Asp Gly Val
 85 90 95
 Thr Val Glu Glu Val Arg Ser Lys Thr Asp Ala Pro Phe Lys Val Ala
 100 105 110
 Asp Asp Val Lys Pro Met Leu
 115

<210> 31196

<211> 404

<212> PRT

<213> A.fumigatus

<400> 31196

His Gln Arg Phe Leu Ala Arg Ala Phe Ser Ser Ser Val Arg Arg Asn
 1 5 10 15
 Glu Ile Asn Lys Val Val Ala Ser Ala Glu Glu Ala Ile Lys Asp Met
 20 25 30
 Lys Ser Asn Ser Thr Leu Leu Ala Gly Gly Phe Gly Leu Ser Gly Val
 35 40 45
 Pro Asp Thr Leu Ile Gly Ala Val Arg Ala Asn Pro Ser Ile Thr Gly
 50 55 60
 Leu Thr Val Val Ser Asn Asn Ala Gly Val Asp Gly Ala Gly Leu Gly
 65 70 75 80
 Leu Leu Leu Gln Ser Lys Gln Ile Lys Lys Met Ile Ala Ser Tyr Val
 85 90 95
 Gly Glu Asn Lys Thr Phe Glu Arg Met Tyr Leu Thr Gly Glu Ile Glu
 100 105 110
 Leu Glu Leu Thr Pro Gln Gly Thr Leu Ala Glu Arg Cys Arg Ala Gly
 115 120 125
 Gly Ala Gly Ile Pro Ala Phe Thr Pro Ala Ala Cys Gly Thr Val
 130 135 140
 Val Gln Thr Gly Glu Leu Pro Leu Lys His Asn Pro Asp Gly Thr Val
 145 150 155 160
 Ala Gln Tyr Ser Gln Pro Arg Asp Val Lys Val Phe Asp Gly Lys Ser
 165 170 175
 Tyr Val Met Glu Glu Ala Ile Lys Gly Asp Tyr Ala Phe Val Lys Ala
 180 185 190
 Trp Lys Ala Asp Lys Leu Gly Asn Cys Gln Phe Arg Tyr Ala Ala Ala
 195 200 205
 Asn Phe Asn Gly Ala Met Gly Arg Asn Ala Lys Met Thr Ile Val Glu
 210 215 220
 Ala Glu His Ile Val Glu Pro Gly Glu Ile Glu Pro Ala Ala Ile His
 225 230 235 240
 Leu Pro Gly Ile Tyr Val Lys Arg Val Val Gln Ser Thr Ala Pro Lys
 245 250 255
 Asn Ile Glu Lys Tyr Thr Phe Ala Lys Glu Asp Gly Asp Asp Thr Ala
 260 265 270
 Ala Leu Gly Lys Gly Asp Thr Ala Ala Lys Arg Glu Arg Ile Val Arg
 275 280 285
 Arg Ala Ala Lys Glu Phe Lys Asn Gly Met Tyr Ala Asn Leu Gly Ile
 290 295 300
 Gly Met Pro Met Leu Ala Pro Asn Phe Val Asp Pro Ser Val Glu Val
 305 310 315 320

11987

Met Leu Gln Ser Glu Asn Gly Ile Leu Gly Leu Gly Pro Tyr Pro Lys
 325 330 335
 Lys Gly Gln Glu Asp Ala Asp Leu Ile Asn Ala Gly Lys Glu Thr Val
 340 345 350
 Thr Leu Ile Pro Gly Ala Ala Val Phe Gly Ser Asp Glu Ser Phe Gly
 355 360 365
 Met Ile Arg Ser Gly Arg Ile Asp Leu Thr Ile Leu Gly Ala Met Gln
 370 375 380
 Val Ser Ala Arg Gly Asp Leu Ala Asn Cys Glu Ser Pro Phe Phe Pro
 385 390 395 400
 Arg Tyr Val Leu

<210> 31197

<211> 85

<212> PRT

<213> A.fumigatus

<400> 31197

Ile Ala Phe Ala Gln Glu Ser Glu Pro Asp Lys Thr Ala Met Ile Gln
 1 5 10 15
 Thr Pro Gly Phe Gly Gly Ser Pro Trp Lys Thr Trp Phe Ile Asp Asn
 20 25 30
 Met Thr Ser Ser Gln Gln Ala Glu Gln Val Ala Val Ala Ile Leu Ser
 35 40 45
 Arg Ala Pro Ser Ser Asn Thr Tyr Ser Met His Gly Lys Asp Asp Ile
 50 55 60
 Met Val Glu Leu Val Cys Ile Gln Ala Leu Ser Ser Gly Gly Ala Ser
 65 70 75 80
 Ser Ser Gln Asp Gly
 85

<210> 31198

<211> 174

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (96)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31198

Leu Ala Ser Leu Pro Tyr Ser Ser Tyr Tyr Tyr Leu Pro Ala Glu Pro
 1 5 10 15
 Thr Gln Gln Pro Gln Pro Val Ile Gln Asp Pro Val Leu His Thr Thr
 20 25 30
 Phe Pro Tyr Asn Leu Thr Asn Pro Asn Thr Ile Pro Thr Glu Asn Asn
 35 40 45
 Asp Pro Val Val Phe Gln Thr Pro Ser Lys Lys Leu Ser Asp Ser Gln
 50 55 60
 Gln His Glu Leu Ile Gln Ala Val Val Ala Asn Val Thr Ser Ile Val
 65 70 75 80
 Asn Gly Asn Ala Thr His Gly Ser Cys Asn Lys Cys Lys Ala Ala Xaa
 85 90 95
 Ala Ala Thr Lys Pro Ala Ala Leu Tyr Ala Pro Thr Leu Val Pro Asp

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<210> 31199
<211> 355
<212> PRT
<213> A.fumigatus
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Leu	Leu	Ala	Arg	Phe	Gly	Thr	Val	Asp	Glu	Glu	Val	Leu	Gln	Lys	Thr
1				5					10					15	
Asn	Ile	Ala	Lys	Leu	Leu	Ser	Arg	Phe	Val	Lys	Lys	Gly	Gly	Pro	Thr
			20					25					30		
Val	Lys	Glu	Leu	Ser	Gln	Lys	Ile	Leu	Asp	Asn	Ala	Ala	Ala	Ser	Thr
		35					40					45			
Lys	Arg	Lys	Gln	Glu	Ser	Thr	Lys	Pro	Ala	Ala	Lys	Glu	Arg	Gln	Ala
	50					55					60				
Thr	Lys	Ser	Ser	Pro	Ser	Glu	Ala	Ala	Pro	Ala	Asn	Asn	Ser	Arg	Pro
65				70					75					80	
Glu	Ile	Thr	Gly	Ser	Lys	Arg	Pro	Arg	Glu	Gly	Glu	Pro	Ser	Gly	Gln
			85						90					95	
Gly	Ala	Ser	Lys	Arg	Met	Val	Val	Thr	Ser	Asn	Ile	Lys	Pro	Ser	Ala
			100					105					110		
Lys	Ala	Gly	Asn	Ala	Thr	Ile	Thr	Gly	Ser	Val	Lys	Arg	Pro	Gln	Glu
		115					120					125			
Thr	Ala	Gln	Glu	Asn	Arg	Ser	Ala	Ala	Ala	Val	Ser	Arg	Pro	Lys	Ala
		130				135					140				
Asn	Ile	Ile	Ala	Pro	Lys	Pro	Thr	Ser	Leu	Phe	Gly	Ser	Leu	Val	Ser
145				150						155				160	
Ala	Ser	Lys	Arg	Pro	Gly	Thr	Ser	Asn	Ala	Glu	Arg	Ala	Ala	Ala	Ala
			165						170					175	
Ala	Ala	Ala	Ala	Lys	Thr	Arg	Tyr	Ala	Glu	Cys	Glu	Ala	Pro	Val	Cys
			180					185					190		
Gly	Pro	Ser	Glu	Ile	Met	Leu	Thr	Met	Ile	Ser	Pro	Pro	Ala	Glu	Arg
		195					200					205			
Lys	Glu	Thr	Gln	Ala	Pro	Pro	Pro	Arg	Pro	Thr	Phe	Ser	Phe	Gly	Asp
	210					215					220				
Ile	Met	Ala	Asp	Leu	Asn	Lys	Gln	Lys	Gly	Pro	Glu	Ser	Val	Glu	Pro
225				230						235				240	
Thr	Glu	Asp	Arg	Pro	Pro	Glu	Ser	Glu	Glu	Glu	Arg	Lys	Arg	Arg	Leu
			245						250					255	
Arg	Lys	Glu	Ala	Arg	Arg	Lys	Leu	Arg	Val	Arg	Trp	Lys	Pro	Asp	Glu
		260					265						270		
Ser	Leu	Thr	Glu	Val	Arg	Leu	Phe	Thr	His	Asp	Pro	Asp	Glu	Glu	Leu
		275					280					285			
Gly	Pro	Gly	Asp	Arg	Ser	Gln	Gly	Glu	Ile	Gly	Asp	Ile	Lys	Gly	Glu
	290					295				300					
Gly	Ser	Val	Leu	Lys	Leu	His	Arg	Asp	Leu	Glu	Asp	Leu	Glu	Asp	Asp
305				310						315					320

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<210> 31200
<211> 65
<212> PRT
<213> A.fumigatus
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<400> 31200
His Ala Leu Pro Ser Arg Pro Gly Arg Val Xaa Thr Ser Met Cys His
1          5          10          15
Arg Leu Met Phe Tyr Leu Phe Val Leu Ser Phe Met Ile Ser Leu Phe
          20          25          30
Tyr Leu Pro Leu Thr Thr Trp Val Met Thr Trp Leu Glu Ile Pro Asn
          35          40          45
Gly Leu Pro Gly Pro Gln Ile Arg Ser Pro Arg Asp Thr Pro Ile Asn
          50          55          60
Gly
65

```

[illegible]

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<400> 31202
Pro Ala Gly Arg Gly Val Ile Trp Asp Gln Glu Ile Tyr Asp Asn Phe
1          5          10          15
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11990

Ala Tyr Asn Gln Asp Arg Thr Phe Phe His Thr Phe Glu Leu Glu Asp
 20 25 30
 Cys Ala Ala Gly Phe Ser Phe Ala Asp Glu Lys Glu Ala Lys Thr Phe
 35 40 45
 Ile Lys Lys Met His Glu Arg Glu Lys His Ala Ser Lys Glu Thr Arg
 50 55 60
 Gln Thr Pro Phe Ala Ser Thr Arg Gly Gln Gly Pro Ala Pro Met Ala
 65 70 75 80
 Asn Gly Lys Pro Gly Val Gly Arg Ser Leu Phe Gly Ser Leu Leu Gly
 85 90 95
 His Arg Ser Pro Ser Gly Ser Ser Val Pro Pro Pro Ala Pro Ala Pro
 100 105 110
 Ala Ala Pro Ser Ala Pro Pro Thr Gln Ser Ala Leu Pro Ser Gly Pro
 115 120 125
 Ser Arg Lys Glu Leu Pro Phe Asp Thr Ser Asp Pro Ser Trp Lys Gly
 130 135 140
 Leu Leu Asp Glu Leu Leu Gln Met Gly Ile Thr Glu Asp Gln Ile Ala
 145 150 155 160
 Glu Asn Ser Asp Phe Ile Lys Ala Tyr Ile Glu Gln Arg Gln Gly Ser
 165 170 175
 Glu Ala Glu Pro Thr Ala Ser Pro Ser Glu Asp Gln Arg Arg Gly Lys
 180 185 190
 Ala Pro Pro Pro Pro Pro Pro Ser Ala Pro Pro Ala Leu Lys Thr Thr
 195 200 205
 Pro Ile Ser Pro Gln Asn Thr Gly Asn Ser Gly Gly Ser Arg Arg Gly
 210 215 220
 Ala Pro Pro Pro Pro Pro Pro Ser Arg Lys Ala Arg Pro Glu Ala Glu
 225 230 235 240
 Glu Glu Pro Ala Pro Ala Pro Ala Arg Glu Pro Ser Pro Pro Arg Pro
 245 250 255
 Arg Phe Arg Ala Pro Pro Pro Ile Ala Asp Ala Gly Lys Leu Ala His
 260 265 270
 Thr Val Gly Pro Pro Val Pro Gly Arg Gln Arg Ala Met Ser Gly Thr
 275 280 285
 Asn Pro Ser Ser Pro Arg Arg Met Glu Arg Gln Thr
 290 295 300

<210> 31203

<211> 68

<212> PRT

<213> A.fumigatus

<400> 31203

Trp Phe Leu Val Gly Ala Gly Glu Ser Gly Lys Ser Thr Ile Ile Lys
 1 5 10 15
 Gln Met Arg Ile Ile His Ser Gly Gly Phe Pro Glu Asp Glu Arg Arg
 20 25 30
 Gln Thr Arg Ala Val Ile Tyr Ser Asn Leu Val Ile Ala Phe Lys Val
 35 40 45
 Leu Leu Asp Ile Met Arg Ala Glu Gln Ile Asp Phe Glu Leu Glu Thr
 50 55 60
 Thr Lys Val Asn
 65

<210> 31204

<211> 240

11991

<212> PRT

<213> A.fumigatus

<400> 31204

Gln	Ser	Ala	Ile	Val	Ser	Leu	Val	Asp	Gly	Ile	Phe	Leu	Ile	Ser	Gly
1				5					10					15	
Tyr	Leu	Leu	Ser	Cys	Ser	Phe	Phe	Gly	Ser	Leu	Asp	Arg	Leu	Phe	Lys
			20					25					30		
Pro	Gly	Trp	Leu	Pro	Asp	Asn	Gln	Asp	Met	Leu	Gln	Ala	Arg	Leu	Arg
		35					40					45			
Thr	Thr	Gly	Ile	Thr	Glu	Thr	Leu	Phe	Glu	Leu	Gly	Gln	Met	Asn	Phe
	50					55					60				
Arg	Met	Met	Asp	Val	Gly	Gly	Gln	Arg	Ser	Glu	Arg	Lys	Lys	Trp	Ile
65					70					75					80
His	Cys	Phe	Glu	Gly	Val	Gln	Cys	Leu	Leu	Phe	Met	Val	Ala	Leu	Ser
				85					90					95	
Gly	Tyr	Asp	Gln	Cys	Leu	Val	Glu	Asp	Gln	Asn	Ala	Val	Ser	Gln	Ser
			100					105					110		
Ser	Leu	Ser	Ala	Ser	Glu	Glu	Ala	Cys	Tyr	Leu	Thr	Gln	Thr	Gln	Asn
			115				120					125			
Gln	Met	His	Glu	Ala	Met	Met	Leu	Phe	Glu	Ser	Leu	Val	Asn	Gly	Glu
	130					135					140				
Trp	Phe	Lys	Arg	Lys	Pro	Ile	Ile	Leu	Phe	Leu	Asn	Lys	Ile	Asp	Leu
145					150					155					160
Phe	Lys	Gly	Lys	Leu	Glu	Phe	Ser	Pro	Val	Ser	Lys	His	Phe	Pro	Asp
				165					170					175	
Tyr	Asn	Gly	Ser	Asn	Ser	Asp	Phe	Asp	Ala	Ala	Ala	Arg	Tyr	Phe	Ala
			180					185					190		
Asp	Arg	Phe	Arg	Gly	Ile	Asn	Arg	Ile	Pro	Asp	Arg	Glu	Ile	Tyr	Ile
		195					200					205			
His	Tyr	Thr	Asn	Ala	Thr	Asp	Thr	Thr	Leu	Leu	Lys	Ala	Thr	Met	Glu
	210					215					220				
Ser	Val	Gln	Asp	Met	Ile	Ile	Gln	Lys	Asn	Leu	His	Thr	Leu	Ile	Leu
225					230					235					240

<210> 31205

<211> 80

<212> PRT

<213> A.fumigatus

<400> 31205

Thr	Glu	Gly	Glu	Pro	Ser	Ile	Phe	Pro	Ile	Gln	Thr	Leu	Val	Pro	Leu
1				5					10					15	
Leu	Ile	Leu	Thr	Val	Gly	Phe	Ala	Phe	Gln	Gln	Leu	Ala	Glu	Phe	Ile
			20					25					30		
Asp	Asn	Leu	Glu	Pro	Asp	Val	Gly	Ser	Asp	Glu	Ala	Phe	Ser	Asp	Tyr
		35					40					45			
Lys	Val	Arg	Asp	Ala	Met	Arg	Glu	Met	Trp	Val	Asp	Ala	Trp	Val	Gln
	50					55					60				
Lys	Ala	Val	Ser	Arg	Gly	His	Glu	Phe	Ala	Leu	His	Asp	Asn	Leu	Gln
65					70					75					80

<210> 31206

<211> 82

<212> PRT

<213> A.fumigatus

<400> 31206

Gly Gly Val Ala Thr Pro Ala Asp Ala Ala Leu Met Met Gln Leu Gly
 1 5 10 15
 Cys Asp Gly Val Phe Val Gly Ser Gly Ile Phe Lys Ser Gly Asp Ala
 20 25 30
 Lys Lys Arg Ala Lys Ala Ile Val Gln Ala Val Thr His Tyr Lys Asp
 35 40 45
 Pro Lys Val Leu Ala Glu Val Ser Glu Gly Leu Gly Glu Ala Met Val
 50 55 60
 Gly Ile Asn Val Ser Gln Met Pro Glu Ala Asp Arg Leu Ala Lys Arg
 65 70 75 80
 Gly Trp

<210> 31207

<211> 174

<212> PRT

<213> A.fumigatus

<400> 31207

Tyr Tyr Pro Ser Val Tyr Asp Cys Ile Lys Ile Thr His Arg Met Asn
 1 5 10 15
 Ser Leu Ser Ser Phe Arg Lys Cys Val Leu Ser Arg Ser Ala Arg Ser
 20 25 30
 Thr Ser Pro Leu Met Leu Asp Phe Leu Ala Pro Ser Val Leu Arg Gln
 35 40 45
 Ser Arg Thr Arg His Ser Ser Thr Ala Ala Ser Ser Ser Pro Asp Gly
 50 55 60
 Ala Gln Gln Ser Ser Gln Asn Ser Gly Ala Gly Ser Ser Lys Pro Thr
 65 70 75 80
 Tyr Ile Leu Ser Lys Lys Gln Arg Glu Tyr Leu Asp Ser Ala Leu Arg
 85 90 95
 Val Tyr Gln Ala Gly Glu Leu Ala Ala Thr Leu Ile Tyr Ala Ala Pro
 100 105 110
 Thr Pro Gln Val Leu Arg Ser His Pro His Leu Arg Thr Leu Met Lys
 115 120 125
 His Met Cys Glu Pro Arg Ser Arg Asn Leu Leu Asp Ile Gln Gln Asn
 130 135 140
 Ser Leu Ala Lys Pro Pro Gly Ser Ala Pro Thr Val Leu Val Phe Arg
 145 150 155 160
 Phe Gly Lys Ile Pro Thr Gly Leu Ser Leu Gly Met Val Arg
 165 170

<210> 31208

<211> 284

<212> PRT

<213> A.fumigatus

<400> 31208

Val Cys Arg Phe Leu Cys Thr Pro Phe Asp Leu Asn Cys Val Leu Cys
 1 5 10 15
 Val Arg Trp Leu Glu Thr Asp Asn Thr Gly Pro Thr Arg Ser Asp Ala
 20 25 30
 Gly Ser His His Ser Leu Glu Ser Ala Ser Met Ser Glu Ser Asp Ala
 35 40 45

11993

Ala Ser Asp Ser Glu Gly Ala Ser Glu Asp Ala Glu Glu Asp Arg Pro
50 55 60
Ile Phe Pro Tyr Glu Lys Leu Tyr Tyr Ser Ala Lys Asp Lys Glu Glu
65 70 75 80
Ile Met Ala Leu Pro Glu Ile Gln Arg Glu Gln Ile Leu Ser Glu Arg
85 90 95
Ala Gln Glu Val Asp Arg Arg Asn Gln Asp Leu Ala Leu Arg Arg Leu
100 105 110
Leu Ala Ser Arg Glu Arg Asp Glu Ala Arg Arg Val Lys Lys Ser Lys
115 120 125
Arg Lys Ala Ser Val Ala Asp Leu Glu Glu Gly Gln Arg Lys Ser Ser
130 135 140
Arg Gln Lys Thr Thr Leu Gly Gly Arg Lys Val Gly Glu Ala Ser Glu
145 150 155 160
Ala Ile Glu Ala Tyr Lys Arg Gln Arg Glu Lys Lys Gly Arg Arg Asp
165 170 175
Glu Leu Arg Arg Asp Met Ala Ala Gly Glu Ala Ala Pro Val Lys
180 185 190
Asp Glu Ala Pro Ser Asp Lys Asp Ala Glu Gly Glu Ser Glu Val Glu
195 200 205
Trp Asp Asn Arg Glu Arg Ser Pro Ser Pro Pro Lys Asp Asp Pro Pro
210 215 220
Ala Asp Leu Arg Asp Ile Gln Arg Ala Arg Val Gly Arg Thr Asn Phe
225 230 235 240
Ala Gln Val Cys Phe Tyr Pro Gly Phe Asp Glu Ala Ile Ser Gly Cys
245 250 255
Tyr Ala Arg Val Asn Ile Gly Pro Asn Arg Asp Thr Gly Ile Asn Glu
260 265 270
Tyr Arg Leu Cys Leu Ile Lys Ser Met Ser Pro Gly
275 280

<210> 31209

<211> 89

<212> PRT

<213> A.fumigatus

<400> 31209

Asn Val Ser Ser Ser Thr Ser Ser Leu Ser Leu Arg Phe Leu Thr Met
1 5 10 15
Pro Gln Asp Ile Asn Ser Glu Leu Asp Glu Leu Asp Arg Glu Glu Phe
20 25 30
Tyr Arg Leu Lys Lys Val Ser Asn Lys Lys Gln Arg Asp Ser Ala Ala
35 40 45
Ala Asp Ala Glu Ile Val Ala Thr Arg Glu Arg Glu Ala Ala Asp Lys
50 55 60
Arg Ala Ala Glu Val Glu Ala Val Pro Glu Val Pro Asp Val Leu Gly
65 70 75 80
Glu Asn Glu Asp Ala Asp Val Ile Phe
85

<210> 31210

<211> 158

<212> PRT

<213> A.fumigatus

<400> 31210

11994

Pro Lys Leu Arg Ser Ala Val Ser Met Cys Val Ser Ser Ser Ala Cys
 1 5 10 15
 Tyr Asn Glu Arg Thr Ala His Leu Thr Ser Leu Thr Lys Gln Val Arg
 20 25 30
 Asn Leu Glu Glu Arg Ile Lys Val Asp Gln Leu Lys Val Ala Leu Glu
 35 40 45
 Glu Ile Phe Ser Glu Tyr Gly Asn Ile Val Glu Ile Val Ala Lys Thr
 50 55 60
 Asn Leu Lys Ala Lys Gly Gln Ala Phe Ile Val Phe Asp Asn Val Glu
 65 70 75 80
 Ser Ala Thr Arg Ala Ile Glu Glu Val Asn Gly Phe Glu Leu Phe Asp
 85 90 95
 Lys Pro Met Val Leu Asp Tyr Ala Lys Thr Lys Ser Asp Ala Thr Val
 100 105 110
 Leu Arg Glu Gly Gly Thr Glu Glu Leu Glu Val His Lys Arg Arg Arg
 115 120 125
 Leu Ala Glu Lys Gly Ala Phe Phe Leu Ala Phe Ser Phe Phe Pro Phe
 130 135 140
 Lys Ser Cys Leu Leu Leu Leu Val Leu Gly Cys Val Phe His
 145 150 155

<210> 31211

<211> 137

<212> PRT

<213> A.fumigatus

<400> 31211

Leu Cys Leu Phe Leu Val Glu Arg Lys Gln Ala His Glu Ala Leu Glu
 1 5 10 15
 Ala Gln Lys Lys Leu Lys Arg Pro Pro Gly Pro Ala Asp Thr Ala Arg
 20 25 30
 Pro Ala Lys Thr Val Lys Gly Ala Gly Leu Lys Pro Thr Ser Gly Ala
 35 40 45
 Ala Ala Ala Val Ile Pro Asp Glu Tyr Leu Pro Pro Asn Lys Ile Leu
 50 55 60
 Phe Leu Arg Asp Leu Pro Asp Thr Ala Asp Gln Glu Ser Leu Thr Ala
 65 70 75 80
 Ile Phe Gly Arg Phe Glu Gly Phe Gln Glu Val Arg Leu Val Pro Gly
 85 90 95
 Arg Lys Gly Ile Ala Phe Val Glu Tyr Glu Asn Glu Ser Gly Ala Ile
 100 105 110
 Ser Ala Lys Glu Ala Thr Ala Asn Met Pro Met Gly Asp Asn Gly Lys
 115 120 125
 Pro Ile Arg Val Thr Tyr Gln Arg Gln
 130 135

<210> 31212

<211> 63

<212> PRT

<213> A.fumigatus

<400> 31212

Glu Met Tyr Ile Ala Gln Arg Asn Ser Ala Asp Thr Leu Glu Asn Asp
 1 5 10 15
 Ile Gly Val Phe Ile Leu Pro Gln Asn Val Trp Asp Leu Trp His Arg
 20 25 30

[illegible]

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<210> 31213
<211> 168
<212> PRT
<213> A.fumigatus
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[illegible]

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<210> 31214
<211> 574
<212> PRT
<213> A.fumigatus
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Lys	Trp	His	Thr	Ile	Gly	Asn	Tyr	Pro	Phe	Pro	Ser	Val	Val	Ser	Asn
1				5					10					15	
Leu	Glu	Ile	Leu	Ser	Ile	Met	Pro	Leu	Ser	Phe	Leu	Gly	Ser	Arg	Ser
			20					25					30		
Phe	Thr	Phe	Phe	Arg	Arg	Gly	Arg	Leu	Ser	Leu	Ser	Trp	Val	Pro	Lys
		35				40						45			
Thr	Arg	Leu	Leu	Thr	Phe	Phe	Ser	Ser	Ala	Val	Leu	Asn	Pro	Asp	Gln
	50					55				60					
Ile	Pro	Phe	Cys	Leu	Asp	Ser	Gln	Arg	Ser	Thr	Val	Asn	Leu	Pro	Ile
65					70					75				80	
Arg	Val	Asn	Gln	Thr	Asp	Pro	Val	Leu	Ile	Glu	Leu	Leu	Arg	Leu	Asp
			85						90					95	
Leu	Ser	Thr	Gly	Glu	Asn	Glu	Thr	Ile	Thr	Ile	Ser	Ser	Lys	Gln	Leu
			100					105					110		
Lys	Gln	Met	Lys	Arg	Gln	Ala	Gly	Lys	Lys	Leu	Ser	Ser	Ser	Asp	Ala
		115					120					125			

Pro Glu His Arg Asp Ile Leu Tyr Pro Ile Arg Arg Thr Gly Ile Tyr
 130 135 140
 Arg Leu Gln Arg Val Val Asp Glu Ser Asn Leu Glu Val Arg Met Arg
 145 150 155 160
 Ser Ser Asp Ala Leu Val Val Ser Cys Pro Arg Ala Leu Ile Lys Asn
 165 170 175
 Ser His Thr His Lys Cys Lys Gly Glu Leu Ser Asn Leu Val Leu Glu
 180 185 190
 Val Glu Gly Thr Pro Pro Leu Lys Ile Lys Tyr Ser Arg Gln Val Asn
 195 200 205
 Lys Leu Asp Arg Gly Phe Ser Phe Gln Asn Ile Gln Pro Asp His Leu
 210 215 220
 Arg Ser Pro Leu Leu Gly Gln Arg Ser Ser Gly Ile Leu Phe Asp Ala
 225 230 235 240
 Glu Gln Pro Glu Ile Thr Trp Ala Gln Ser Gln Thr Ile Glu Val Pro
 245 250 255
 Leu Asn Glu Ser Leu Asn Val Gly Gly Glu Trp Phe Tyr Asn Ile Glu
 260 265 270
 Glu Val His Asp Gly Cys Gly Asn Ile Ala Asn Tyr Ser Thr Leu Leu
 275 280 285
 Asp Glu Ala Asp Arg Ser Ser Pro Lys Ser Leu Pro His Trp His Gln
 290 295 300
 Phe Ser Val His Glu Arg Pro Arg Leu Ser Leu Ser Gly Cys Asp Asp
 305 310 315 320
 Gln His Phe Ile Lys Val Ala Lys Gly Glu His Val Asn Leu Pro Leu
 325 330 335
 Arg Phe His Pro Val Gly Gln Gly Tyr Asp Tyr Asp Gly Pro Phe Ser
 340 345 350
 Leu Gly Tyr Ser Phe Arg Gly Asn Glu Leu Asp Glu Arg Asp Ser Ser
 355 360 365
 Asp Lys Val Arg Gln Leu Ser Leu Lys Asp Leu Asp Gln Lys Pro Gln
 370 375 380
 Ile Lys Glu Ser Gly Trp Tyr Met Leu Asn Ser Ile Ser Ser Gln Phe
 385 390 395 400
 Cys Ser Gly Glu Ile Leu Glu Pro Ser Ser Cys Tyr Leu His Asn Pro
 405 410 415
 Pro Glu Pro Glu Leu Ala Leu Lys Tyr Glu Lys Ile Phe Asp Lys Cys
 420 425 430
 Ala Asn Asn Ser Val Gly Leu Leu Leu Asp Leu Asp Leu Thr Gly Ser
 435 440 445
 Pro Pro Phe Arg Met Arg Tyr Ser Ile Glu His Ser Lys Gly Val Glu
 450 455 460
 Thr Lys Ser Leu Thr Val Asp Gly Leu Arg Thr Gln Leu Asp Phe Thr
 465 470 475 480
 Pro Ser Glu Ala Gly Phe Tyr Arg Tyr Arg Phe Leu Asp Ile Ala Asp
 485 490 495
 Thr Val Tyr Ala Pro Arg Ser Leu Lys Asp Lys Val Pro Val Leu Glu
 500 505 510
 Gln Asp Val Lys Pro Pro Ala Ser Ala His Phe Leu Gly Ser Arg Glu
 515 520 525
 Val Arg Arg Ala Cys Phe Gly Glu Pro Val Ser Ile Asp Val Ser Phe
 530 535 540
 Leu Gly Glu Ser Pro Trp Thr Leu His Tyr Glu Leu Pro His Asn Gly
 545 550 555 560
 Lys Phe Phe His Glu Ser Val Ser Arg Asn Ser Asp Trp Gly
 565 570

<210> 31215
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 31215
 Cys Tyr Thr Leu Leu Ser Phe Glu Val Phe Glu Gly Ser Glu Glu Arg
 1 5 10 15
 Gln Thr Glu Val Glu Glu Cys Arg Ser Trp His Ala Gly Phe Thr Glu
 20 25 30
 Lys Asn Pro Leu Leu Ile Glu Val Ser Cys Thr Tyr Thr Asn Gly Gln
 35 40 45
 Ser Ile Glu Asp Val Asn Asn Arg Lys Asn Asn Leu Met Ile Arg Glu
 50 55 60
 Asn Arg Glu Ser Tyr Thr Arg Leu Leu Gln Leu Ala Asn
 65 70 75

<210> 31216
 <211> 70
 <212> PRT
 <213> A.fumigatus

<400> 31216
 Ala Gly Arg Arg Val Leu Glu Ser Leu Pro Ala Ser Leu Asn Leu Lys
 1 5 10 15
 Phe Ser Phe Val Asp Leu Asp Ala Gly Phe Asp Thr Phe Lys Arg Thr
 20 25 30
 Gly Thr Ala Leu Pro Asp Lys Thr Val Glu Thr Leu Lys Lys Glu Cys
 35 40 45
 Asp Gly Ala Leu Phe Gly Ala Val Arg Ser Val Val Pro Met Thr Gly
 50 55 60
 Asn Phe Arg Ser Ser Ala
 65 70

<210> 31217
 <211> 71
 <212> PRT
 <213> A.fumigatus

<400> 31217
 Gln Glu Cys Gln Pro Thr Gly Leu Met Asn Arg Val Gln Ser Lys His
 1 5 10 15
 Thr Val Pro Asp Asn Arg Thr Val Val Phe Leu Tyr Ala Ile Asn Thr
 20 25 30
 Leu Tyr Ala Phe Asp Gly Tyr Ile Ile Ser Ser His Gln His Lys Met
 35 40 45
 His Leu Ile Tyr Leu Leu Ser Gly His Ser Ala Ser Glu Arg Gln Lys
 50 55 60
 Ile Gly Asn Ala Pro Gln Val
 65 70

<210> 31218
 <211> 69
 <212> PRT
 <213> A.fumigatus

<400> 31218

Arg His Gly Ser Met Ser Leu Asn Gln Thr Gly Phe Thr Asp Ile Ile
 1 5 10 15
 Asp Gly Gly Ser Ser Gly Cys Tyr Val Gly Thr Ser Asn Glu Gln Leu
 20 25 30
 Val Pro Asn Ala Ser Trp Asn Ala Thr Pro Gly Trp Asp Pro Val Thr
 35 40 45
 Gly Leu Gly Thr Pro Ile Tyr Asn Thr Leu Val Lys Leu Ala Thr Ser
 50 55 60
 Val Ser Ser Thr Pro
 65

<210> 31219

<211> 216

<212> PRT

<213> A.fumigatus

<400> 31219

Glu Asp Val Ala Ile Met Ala His Ser Val Asp Leu Arg Ser Leu Val
 1 5 10 15
 Ser Glu Leu His Asn Ala Leu Asn Arg Lys Gln Leu Asp Ala Ala Asn
 20 25 30
 Asn Leu Leu Ser Gln Ala Lys Arg Thr Leu Leu Leu Gln Asn Ala Leu
 35 40 45
 Ile Pro Thr Pro Ser Thr Pro Ser Asp Leu Ile Ala Leu Ala Arg Glu
 50 55 60
 Val Leu Glu Leu Gly Ala Leu Ala Ser Ile Arg Gln Thr Asp Ala Gln
 65 70 75 80
 Gly Phe Thr Arg Tyr Tyr Gln Gln Leu Gln Pro Phe Tyr Asp Leu Glu
 85 90 95
 Arg Asp Gly Ala Gly Ser Val Lys Val Asp Thr Lys Ser Ser Gln Arg
 100 105 110
 Ser Lys Ile Thr Gly Leu Tyr Leu Met Leu Leu Leu Ser Met Gly Asp
 115 120 125
 Ser Thr Ser Phe His Thr Val Leu Glu Gly Leu Val Glu Glu Ala Ser
 130 135 140
 Leu Gln Gly Lys Arg Val Glu Asp Asp Leu Tyr Ile Lys Tyr Pro Val
 145 150 155 160
 Asp Leu Glu Arg Ser Leu Met Glu Gly Ser Tyr Asp Lys Val Trp Arg
 165 170 175
 Glu Thr Asn Ser Glu Arg Val Pro Ser Glu Asp Phe Ala Leu Phe Ser
 180 185 190
 Asn Val Ser Ser Ala Leu Phe Arg Cys Ile Leu Cys Phe Cys Ser Ala
 195 200 205
 Val Glu Leu Pro Leu Met Thr Leu
 210 215

<210> 31220

<211> 92

<212> PRT

<213> A.fumigatus

<400> 31220

Val Leu Val Gly Thr Ile Arg Ser Glu Ile Ala Asp Cys Ser Glu Lys
 1 5 10 15

11999

Ala Tyr Pro Ser Leu Pro Ile Ser Asn Ala Lys Asn Leu Leu Phe Leu
 20 25 30
 Asp Ser Glu Gly Ala Val Ile Glu Phe Ala Gln Gln Arg Gly Trp Val
 35 40 45
 Leu Arg Asp Gly Arg Ile Tyr Phe Pro Val Glu Pro Glu Ala Ala Ala
 50 55 60
 Arg Ser Glu Lys Asp Ile Leu Val Ala Ser Ser Thr Val Ile Glu Asn
 65 70 75 80
 Thr Ile Gly Tyr Ala Arg Glu Leu Glu Thr Ile Val
 85 90

<210> 31221

<211> 211

<212> PRT

<213> A.fumigatus

<400> 31221

Cys His His His Val Ala Trp His Cys His Cys Cys Pro Leu Leu Arg
 1 5 10 15
 Leu Leu Pro Pro Asp Ser Val His Ile His Pro Cys Gly Phe His Leu
 20 25 30
 Asp Ser Tyr Phe His Pro Gln Val Ser Asn Tyr Ile His Thr His Ser
 35 40 45
 Arg Phe Phe Tyr Trp Arg Ile Thr Ser Tyr Ser Leu Leu Arg Phe Leu
 50 55 60
 Tyr Tyr Lys Arg Asn Thr Ala Arg Trp Tyr Ile Ile Gly Val Gly Asn
 65 70 75 80
 Glu Arg Val Arg Ala Ile Met Pro Gly Lys Thr Thr Thr Thr Pro Arg
 85 90 95
 Ile Thr Lys Phe Thr Asn Cys Arg Ile Val Lys Gly Ser Glu Leu Val
 100 105 110
 Glu Gln Asp Val Trp Ile Asp Ser Leu Ser Gly Lys Ile Leu Lys Asp
 115 120 125
 Gln Glu Ala Phe Tyr Gly Leu His Leu Ser Pro Asp Glu Val Val Asp
 130 135 140
 Leu Gly Gly Arg Ile Leu Ala Pro Gly Leu Ile Asp Val Gln Leu Asn
 145 150 155 160
 Gly Ala Gln Gly Phe Asp Phe Ser Val Pro Gln Ala Ser Lys Glu Glu
 165 170 175
 Tyr Asn Glu Gly Leu Arg Leu Val Asn Lys Gly Leu Ala Arg Thr Gly
 180 185 190
 Val Thr Ser Tyr Leu Pro Thr Val Val Ser Ser Thr Pro Glu Val Tyr
 195 200 205
 Trp Lys Val
 210

<210> 31222

<211> 144

<212> PRT

<213> A.fumigatus

<400> 31222

Arg Pro Leu Arg Leu Arg Glu Ser Ala Asp Leu Thr Gln Met Ser Phe
 1 5 10 15
 Gln Val Leu Pro Ser Leu Gly Pro Ser Gly Ser Asn His Arg Pro Glu
 20 25 30

12000

Asp Gly Ala Glu Ser Leu Gly Ala His Val Glu Gly Pro Phe Ile Asn
 35 40 45
 Pro Asn Arg Asn Gly Ile His Lys Thr Glu Val Leu Arg Ala Ala Gln
 50 55 60
 Asn Phe Glu Asp Leu Glu Glu Cys Tyr Gly Lys Glu Asn Leu Thr Gly
 65 70 75 80
 Ser Ser Lys Ser Val Lys Met Ile Thr Val Ala Pro Glu Val Gly Asn
 85 90 95
 Met Val Ser Thr Ile Pro Ser Leu Thr Ser Ala Gly Ile Val Cys Ser
 100 105 110
 Ile Gly His Ser Asp Ala Thr Phe Glu Gln Ala Leu Ser Ala Thr Thr
 115 120 125
 Ala Gly Ala Thr Met Val Thr His Met Phe Asn Ala Met Arg Pro Phe
 130 135 140

<210> 31223

<211> 102

<212> PRT

<213> A.fumigatus

<400> 31223

Cys Cys Glu Gly Gln Ser Pro Gln Leu Ala Ala Leu Leu Trp Tyr Gln
 1 5 10 15
 Val Ser Phe Leu Arg Asn Ile Glu Ile Tyr Ala Ile Pro Arg His Gly
 20 25 30
 Met His Val Ile Ile Asp Val His Ser Pro Gly Gly Val Asn Gly Met
 35 40 45
 Pro Phe Ser Glu Ala Tyr Gly His Tyr Arg Trp Phe Asn Ser Gln Thr
 50 55 60
 Ala Leu Asp Cys Ser Leu Ala Ala Ile Asp Ala Val Leu Ala Tyr Val
 65 70 75 80
 Gln Ser Leu Ser His Pro Glu Cys Ser Pro Leu His Pro Ser Met Ser
 85 90 95
 Arg Leu Ile Ile Glu Pro
 100

<210> 31224

<211> 432

<212> PRT

<213> A.fumigatus

<400> 31224

Ser Thr Leu Ser Leu Pro Pro Ile Leu Ser Leu Ala Val Val Phe Val
 1 5 10 15
 Thr Gln Ala Asp Thr Thr Val Pro Gly Thr Thr Ile Lys Gly Thr Cys
 20 25 30
 Val Pro Cys Asp Ser Glu Pro His Thr Thr Ser Ser Pro Leu Ser Leu
 35 40 45
 Val Leu Ser Ala Arg Pro Ala Ser Gly Met Ala Val Ser Phe Arg Trp
 50 55 60
 Arg Pro Ser Pro Arg Ala Thr Lys Ala Leu Leu Ile Ser Ala Phe Ala
 65 70 75 80
 Ile Leu Ser Leu Cys Thr Leu Trp Thr Leu Trp Tyr His Val Ser Ser
 85 90 95
 Thr Phe Ser Ala Val Ser Thr Pro Ile Gly Leu His Asp Ser Glu Gly
 100 105 110

12001

Lys Leu Ser Asp Glu Gln Arg Glu Arg Pro Ser Pro Ser Gly Pro Glu
 115 120 125
 Thr Val Pro Glu Lys Gly Pro Pro Arg Gln His Arg Tyr Ala Phe Ala
 130 135 140
 Thr Ile Leu Thr Gly Glu Asp Ala Thr Glu Thr Asp Ile Lys Asp Pro
 145 150 155 160
 Tyr Phe Thr Ala Val Arg Leu Leu Ala Tyr Gln Leu Leu Arg Ser Pro
 165 170 175
 His Thr Lys Ser Ser Ser Asp Ile Pro Phe Leu Val Leu Val Thr Glu
 180 185 190
 Glu Val Pro Gln Arg Gln Arg Asp Ile Leu Ser Arg Asp Gly Ala Ile
 195 200 205
 Val Val Pro Val Glu Gly Phe Ser Arg Asp Trp Ile His Pro Lys Trp
 210 215 220
 Glu Arg Trp Lys Ser Val Leu Ala Lys Leu Asn Leu Trp Lys Leu Thr
 225 230 235 240
 Glu Tyr Glu Lys Ile Thr Phe Leu Asp Ala Asp Ser Val Ile Phe Glu
 245 250 255
 Pro Ile Asp Gly Ile Phe Thr Glu Arg Ala Thr Met Thr Gln Ile Thr
 260 265 270
 Arg Pro Ser Ser Ala Ala Leu Thr Thr Pro Gly Pro Val Pro Asp Ser
 275 280 285
 Tyr Met Met Ala Gly Met His Asp Arg Trp Val Glu Val Ala Leu Pro
 290 295 300
 Pro Val Pro Gly Ser Glu Phe Tyr Ala Lys Asp Asn Tyr Met Asn Ala
 305 310 315 320
 Gly Phe Phe Val Leu Ala Pro Ser Glu Ala Met Phe Lys Tyr Tyr Ser
 325 330 335
 Phe Leu Leu Asp Gln Pro Gly Leu Phe Asp Pro Ala Tyr Pro Glu Gln
 340 345 350
 Asn Leu Leu Asn Tyr Ala His Arg Val Asp Gly Arg Met Pro Trp Gln
 355 360 365
 Asp Ile Gly Pro Leu Trp Ser Gln Lys Gly Ser Ser Phe Glu His Tyr
 370 375 380
 Asp Pro Arg Leu Lys Ser Leu His Gln Lys Trp Trp Lys Thr Ser Tyr
 385 390 395 400
 Asp Gln Thr Phe Asp Glu Arg Ile Ala Asn Ala Met Ala Glu Leu Lys
 405 410 415
 Asp Tyr Leu Gly Lys Gln Glu Glu Asp Thr Val Gln Pro Arg Ser Pro
 420 425 430

<210> 31225

<211> 135

<212> PRT

<213> A.fumigatus

<400> 31225

Arg Gly Gln Thr Arg Thr Trp Asn Phe Ile Leu Pro Glu Leu Gln Leu
 1 5 10 15
 Gln Glu Gln Glu Asp Gln Gly Gln Ser Lys Tyr Ser Asp Gln Ile Gly
 20 25 30
 Ala Glu Gly Arg Val Gly Arg Tyr Ser Gln Asp Asn Arg Gly Gly Ser
 35 40 45
 Lys Val Thr Ser Ser Gly Met Tyr Phe Pro Gly Ser Pro Ala Ala Pro
 50 55 60
 Pro Ala Thr Asn Arg Val Ile Gln Ser Ala Ile Val Arg Ile Met Lys

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12002

65				70				75				80			
Ser	Arg	Lys	Lys	Met	Lys	His	Val	Gln	Leu	Val	Gln	Glu	Val	Ile	Gln
				85					90					95	
Gln	Val	Lys	Ser	Arg	Phe	Pro	Pro	Lys	Val	Gln	Asp	Ile	Lys	Lys	Asn
			100					105					110		
Ile	Glu	Ala	Leu	Met	Glu	Lys	Asp	Tyr	Ile	Glu	Arg	Val	Phe	Asn	Thr
		115					120					125			
Thr	Gly	Asp	Pro	Gln	Trp	Leu									
	130					135									

<210> 31226

<211> 707

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (604)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31226

Leu	Ser	Ala	Val	His	Asn	Phe	Cys	Thr	Ser	Gln	Lys	Ala	Val	Ser	Asn
1				5					10					15	
Gly	Gln	Gly	Leu	Gln	Ala	His	Arg	Gly	Gly	Ser	Ser	Phe	Arg	Pro	Leu
			20					25					30		
Cys	Glu	Trp	Tyr	Val	Gly	Leu	Cys	Trp	Pro	Cys	Ser	Asp	Asp	Phe	Ser
		35					40					45			
Ser	Val	Ala	His	Leu	Leu	Gly	Glu	Glu	Leu	Tyr	Lys	Leu	Leu	Gly	Glu
	50					55					60				
Tyr	Leu	Ser	Arg	His	Leu	Glu	Ala	Val	Tyr	Arg	Glu	Ser	Leu	Ser	His
65				70					75					80	
Thr	Glu	Glu	Ala	Leu	Leu	Gly	Phe	Tyr	Ile	Arg	Glu	Trp	Val	Arg	Tyr
			85					90						95	
Thr	Thr	Ala	Ala	Lys	Tyr	Val	Asn	His	Leu	Phe	Arg	Tyr	Leu	Asn	Arg
		100						105					110		
His	Trp	Val	Lys	Lys	Glu	Ile	Asp	Glu	Gly	Lys	Lys	Asn	Val	Tyr	Asp
		115					120					125			
Val	Tyr	Thr	Leu	His	Leu	Val	Lys	Trp	Lys	Asp	Asp	Phe	Phe	Met	Lys
	130					135					140				
Val	His	Glu	Lys	Val	Met	Glu	Ala	Val	Leu	Asn	Leu	Ile	Glu	Lys	Gln
145				150						155				160	
Arg	Asn	Gly	Glu	Thr	Ile	Glu	Gln	Ser	Gln	Ile	Lys	Asn	Ile	Val	Asp
			165					170					175		
Ser	Phe	Val	Ser	Leu	Gly	Leu	Asp	Glu	Asn	Asp	Asn	Thr	Lys	Ser	Thr
		180					185						190		
Leu	Glu	Val	Tyr	Arg	Val	Tyr	Phe	Glu	Lys	Pro	Phe	Ile	Ala	Ala	Thr
		195				200						205			
Arg	Val	Tyr	Tyr	Glu	Asn	Glu	Ser	Arg	Gln	Phe	Val	Ala	Glu	Asn	Ser
	210					215						220			
Val	Val	Glu	Tyr	Met	Lys	Lys	Ala	Glu	Ala	Arg	Leu	Asp	Glu	Glu	Lys
225				230						235				240	
Ala	Arg	Val	Gly	Leu	Tyr	Leu	His	Pro	Asp	Ile	Met	Lys	Arg	Leu	Thr
			245					250					255		
Asp	Thr	Cys	Leu	Asp	Val	Leu	Val	Thr	Ala	His	Ser	Glu	Leu	Leu	Arg
		260					265					270			
Asp	Glu	Phe	Gln	Val	Leu	Leu	Asp	Asn	Glu	Arg	Gln	Asp	Asp	Leu	Ala

12004

<210> 31227
<211> 133
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (31)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31227
Cys His Ser Ser Tyr Val Phe Leu Pro Asn Gln Asn Pro His Gln Leu
1 5 10 15
Ala Ser Tyr Arg Ala Ile Pro Phe Ser Ser Lys Ser Leu Thr Xaa Asn
20 25 30
Asn His Asn His Asn Arg His Asp Thr Thr Arg His Asp Thr Thr Arg
35 40 45
Gln Gly Lys Lys Thr Tyr Lys Met Lys Leu Gln Leu Asn Pro Thr Thr
50 55 60
Leu Leu Leu Ala Thr Leu Ala Leu Thr Ser Gln Leu Ala Arg Ala Asp
65 70 75 80
Leu Ser Tyr Tyr Cys Glu Met Ala Lys Asp Gly Thr Asn Met Ile Gln
85 90 95
Lys Ala Tyr Cys Cys Asp Asp Leu Val Pro Ala Arg Tyr Ala Glu Arg
100 105 110
Phe Leu Gln Gly Glu Lys Cys Thr Pro Leu Ile Leu Gly Ser Cys Pro
115 120 125
Cys Cys Ile Leu Arg
130

<210> 31228
<211> 80
<212> PRT
<213> A.fumigatus

<400> 31228
Ile Tyr Pro Phe Glu Val Gln Ile Asn Ile Arg Ser Tyr His His Pro
1 5 10 15
Pro Leu Ala Ser Leu Leu Phe Pro His Ser Pro Gln Glu Thr Ala Arg
20 25 30
Gly Thr Tyr Asn Arg Ile Thr Thr Asn Arg His Arg Pro Ile Ile Gly
35 40 45
Thr Leu Ile Pro His Arg Leu Arg Ile Arg Lys Arg Thr Tyr Thr His
50 55 60
Pro Ile Thr Ser Val Ile Ala Val Cys Asn Lys Asp Lys Asn Gln Gly
65 70 75 80

<210> 31229
<211> 552
<212> PRT
<213> A.fumigatus

<400> 31229
Gln Leu Val Ser Phe Gln Pro Gly Gly Glu Asp Arg Leu Glu Asn Leu
1 5 10 15
Ser Trp Arg Leu Trp Thr Arg Glu Thr Phe Cys Val Glu Pro Asp Lys

[illegible][illegible]

12006

465		470		475		480									
Thr	Ala	Asn	Ala	Phe	Leu	Lys	Arg	Arg	His	Thr	Thr	His	Asp	Met	Ala
				485					490					495	
Asn	Leu	Gln	Glu	Tyr	Pro	Glu	Pro	Asn	Gly	Ala	Leu	Lys	Gly	Gln	Thr
			500					505					510		
Ser	Gln	Gln	Asn	Ala	Gly	Val	Pro	Asn	Gly	Thr	Ser	Ala	Lys	Ala	His
		515					520					525			
Ala	Glu	Lys	Asp	Val	Ala	Ser	Phe	Asn	His	Tyr	Thr	Asp	Phe	Gly	Pro
	530					535					540				
Trp	Glu	Tyr	His	Val	Glu	Gly	Trp								
545					550										

<210> 31230

<211> 138

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (129), (132), (137), (138)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31230

Ser	Ser	Ser	Leu	Gln	Ser	Lys	Gly	Leu	Arg	Arg	Arg	Ser	Thr	Arg	Ser
1			5					10					15		
Pro	Ile	Arg	Pro	Thr	Ala	Thr	Val	Pro	Thr	Thr	Leu	Phe	Ser	Arg	Ser
			20					25				30			
Asn	Ser	Phe	Leu	Ala	Thr	Ala	Ala	Thr	Ser	His	Ser	Pro	Leu	Arg	Ile
		35				40						45			
Cys	Ser	Trp	Ala	Gly	Thr	Lys	Leu	Arg	Thr	Ser	Ala	Arg	Met	Val	Met
	50					55					60				
Thr	Thr	Cys	Ser	Ala	Thr	Glu	Thr	Thr	Leu	Gln	Pro	Val	Thr	Ser	Ala
65					70					75					80
Thr	Val	Ile	Pro	Pro	Leu	Val	Leu	Leu	Ala	Ala	Leu	Arg	Ser	Thr	Trp
				85					90					95	
Ser	Glu	Pro	Thr	Pro	Ala	Val	Thr	Ala	Ser	Phe	Asn	Phe	Leu	Ala	Leu
			100					105					110		
Ala	Lys	Arg	Ser	Gly	Leu	His	His	Gly	Ala	Gly	Lys	Cys	Arg	Ser	Ile
		115				120						125			
Xaa	Lys	Pro	Xaa	Arg	Arg	Ser	Gln	Xaa	Xaa						
	130					135									

<210> 31231

<211> 310

<212> PRT

<213> A.fumigatus

<400> 31231

Arg	Pro	Glu	Arg	Leu	Ala	Lys	Ala	Lys	Lys	Leu	Lys	Leu	Ala	Val	Thr
1				5					10					15	
Ala	Gly	Val	Gly	Ser	Asp	His	Val	Asp	Leu	Asn	Ala	Ala	Asn	Lys	Thr
			20					25					30		
Asn	Gly	Gly	Ile	Thr	Val	Ala	Glu	Val	Thr	Gly	Cys	Asn	Val	Val	Ser
		35				40						45			
Val	Ala	Glu	His	Val	Val	Met	Thr	Ile	Leu	Ala	Leu	Val	Arg	Asn	Phe
	50					55					60				

12007

Val Pro Ala His Glu Gln Ile Arg Asn Gly Glu Trp Asp Val Ala Ala
 65 70 75 80
 Val Ala Lys Asn Glu Phe Asp Leu Glu Asn Lys Val Val Gly Thr Val
 85 90 95
 Ala Val Gly Arg Ile Gly Glu Arg Val Leu Arg Arg Leu Lys Pro Phe
 100 105 110
 Asp Cys Lys Glu Leu Leu Tyr Tyr Asp Tyr Gln Pro Leu Arg Pro Glu
 115 120 125
 Val Glu Lys Glu Ile Gly Cys Arg Arg Val Glu Asn Leu Glu Glu Met
 130 135 140
 Leu Ala Gln Cys Asp Val Val Thr Ile Asn Cys Pro Leu His Glu Ser
 145 150 155 160
 Thr Arg Gly Leu Phe Asn Lys Glu Leu Ile Ser Lys Met Lys Lys Gly
 165 170 175
 Gly Phe Trp Leu Ser Ser Phe Pro Leu Ala Asn Ala Ile Ser Ala Asn
 180 185 190
 Cys Leu Ser Leu Gly Ser Trp Leu Val Asn Thr Ala Arg Gly Ala Ile
 195 200 205
 Val Val Lys Glu Asp Val Ala Glu Ala Val Lys Ser Gly His Leu Arg
 210 215 220
 Gly Tyr Gly Gly Asp Val Trp Phe Pro Gln Pro Ala Pro Lys Asp His
 225 230 235 240
 Pro Leu Arg Tyr Val Gln Gly Pro Trp Gly Gly Gly Asn Ala Met Val
 245 250 255
 Pro His Met Ser Gly Thr Ser Ile Asp Ala Gln Ile Arg Tyr Ala Gln
 260 265 270
 Gly Thr Lys Ala Ile Leu Glu Ser Tyr Phe Ser Gly Arg His Asp Tyr
 275 280 285
 Lys Pro Glu Asp Leu Ile Val Lys Asp Gly Asp Tyr Val Thr Lys Ala
 290 295 300
 Tyr Gly Gln Arg Gln Lys
 305 310

<210> 31232

<211> 86

<212> PRT

<213> A.fumigatus

<400> 31232

Met Ala Leu Ile Ile Leu Val Ile Ile Ala Ile Val His Glu Pro Leu
 1 5 10 15
 Leu Glu Val Ser Ala Glu Ser Ala Thr Cys Val Cys Arg Ile Ala Pro
 20 25 30
 Ser Phe Lys Arg Phe Pro Pro Arg Arg Ile His Ile His Pro Asp His
 35 40 45
 Asp Phe Pro Leu Leu Val Lys Tyr Ala Asn Val Ile Val Leu Cys Val
 50 55 60
 Gly Leu Pro Pro Pro Arg Trp Gln Glu Glu Ala His Asp Ser Ile
 65 70 75 80
 Gly Tyr Thr Ile Ser Gln
 85

<210> 31233

<211> 141

<212> PRT

<213> A.fumigatus

12008

<400> 31233

Ala	Leu	Gly	Ser	Ser	Thr	Leu	Pro	Val	Val	Leu	Leu	Leu	Ser	Arg	Arg
1			5						10					15	
Thr	Leu	Pro	Arg	Pro	Ser	Ser	Pro	Ala	Thr	Ser	Ala	Val	Thr	Val	Val
			20					25					30		
Met	Ser	Gly	Ser	Leu	Ser	Leu	Pro	Pro	Arg	Thr	Thr	Leu	Phe	Gly	Thr
		35					40					45			
Ser	Arg	Ala	Leu	Gly	Ala	Val	Val	Thr	Pro	Trp	Phe	Leu	Thr	Cys	Pro
	50					55					60				
Val	Pro	Gln	Ser	Thr	Pro	Arg	Ser	Val	Thr	Pro	Arg	Val	Pro	Arg	Pro
65					70					75				80	
Ser	Ser	Lys	Ala	Thr	Ser	Pro	Val	Ala	Thr	Thr	Thr	Asn	Pro	Arg	Ile
			85						90					95	
Ser	Ser	Ser	Arg	Thr	Val	Thr	Thr	Ser	Pro	Arg	Leu	Thr	Ala	Arg	Asp
			100					105					110		
Arg	Ser	Lys	Arg	His	Asn	His	Phe	Met	Lys	Arg	Met	Thr	Glu	Cys	Ile
	115						120					125			
Tyr	Ser	Tyr	Thr	Phe	Leu	Phe	Gly	Phe	Arg	Ser	Ser	Phe			
	130					135						140			

<210> 31234

<211> 74

<212> PRT

<213> A.fumigatus

<400> 31234

Leu	Gln	Ser	Ala	Leu	Tyr	Arg	Phe	Thr	Phe	Ser	Phe	Ser	Gln	Tyr	Leu
1			5						10					15	
Gln	Thr	Phe	Ile	Val	Leu	Ala	Ser	Gln	Thr	Leu	Ser	Asp	His	Ile	Ser
			20					25					30		
His	His	Ala	Ala	Ala	Ala	Ala	Phe	Leu	Ala	Ser	Val	Pro	Arg	Arg	Pro
		35					40					45			
Ser	Tyr	Pro	Pro	Gly	Asn	Lys	Arg	Ile	Gln	Arg	Arg	Arg	Glu	Tyr	Gln
	50					55						60			
Glu	His	Ser	Gly	Thr	Gln	Asp	His	Leu	Pro						
65					70										

<210> 31235

<211> 148

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (88), (89)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31235

Gln	Ala	Arg	Gly	Leu	Arg	Gly	Ala	Ser	Ile	Pro	Thr	Lys	Ala	Arg	Leu
1			5						10					15	
Thr	Tyr	Phe	Gln	Asp	Lys	Ser	Leu	Thr	Leu	Asp	Leu	Gln	Tyr	Lys	Ser
			20					25					30		
Glu	Asp	Thr	Trp	Thr	Asn	Cys	Phe	Thr	Leu	Asn	Ala	Pro	Glu	Thr	Asn
	35					40						45			
Ile	Ala	Ile	Pro	Ala	Val	Ser	Tyr	Leu	Gly	Phe	Ser	Ala	Glu	Thr	Gly

12009

50		55		60
Glu Leu Ser Asp Asn His Asp Ile Ile Ser Val Asn Ala Lys Asn Leu				
65		70		75
Tyr Ser Ile Gly Gly Asn Ala Xaa Xaa Thr Phe Gly Arg Gly Pro Ala				80
	85		90	95
Asn Asn Gly Arg Gln Asp Gln Ala His Val Lys Leu Pro Lys Gln Lys				
	100		105	110
Gly Gly Trp Gly Trp Phe Leu Phe Lys Phe Ile Leu Phe Leu Gly Ala				
	115		120	125
Ile Val Gly Ala Tyr Val Gly Phe Thr Met Tyr Arg Thr Lys Gln Arg				
	130		135	140
Tyr Ser Arg Phe				
145				

<210> 31236

<211> 61

<212> PRT

<213> A.fumigatus

<400> 31236

Leu Leu Arg Leu Tyr Pro Ile Thr Ser Val Ile Met Leu Pro Pro Arg				
1	5		10	15
Leu Ser Ser Leu Leu Tyr Leu Ala Gly Leu Ala Thr Leu Pro Val Thr				
	20		25	30
Ser Ala Tyr Asn Gly Asp Glu Asn Ile Lys Ser Ile Pro Val Arg Lys				
	35		40	45
Ile Ile Phe His Glu Cys Ala Asn Ala Pro Arg Ile Arg				
	50		55	60

<210> 31237

<211> 95

<212> PRT

<213> A.fumigatus

<400> 31237

Arg Val Thr Gln Ile Glu Val Glu Phe Asn Ile His Gly Gln Gly Asn				
1	5		10	15
Leu His Gly Asp Gly Phe Ala Met Trp Leu Thr Lys Gln Arg Ala Thr				
	20		25	30
Gln Gly Pro Val Phe Gly Ser Thr Asp Asn Phe Glu Gly Leu Gly Ile				
	35		40	45
Phe Phe Asp Thr Tyr Lys Asn Asn Arg Pro Gly Thr Ser Phe Pro Tyr				
	50		55	60
Val Met Ala Met Met Gly Asp Gly Lys Thr Ser Tyr Asp Gln Ala His				
	65		70	75
Asp Gly Lys Ala Asn Glu Val Ala Gly Cys Ser Val Ser Leu Ser				
	85		90	95

<210> 31238

<211> 61

<212> PRT

<213> A.fumigatus

<400> 31238

Ile Gln Ser Thr Asp Thr Pro Gln Ser Thr Ser Leu Pro Thr Pro Asn				
1	5		10	15

12010

Pro Phe Arg Arg Pro Gln Asn Gln Asn Thr Ser Ser Lys Met Ala Ile
 20 25 30
 Trp Gly Ser Ser Ser Ser Asn Thr Ala Ser Ser Gly Glu Ala Asp Ile
 35 40 45
 Lys Thr His Leu Met Asn His Val Arg Gln Glu Ala Tyr
 50 55 60

<210> 31239

<211> 414

<212> PRT

<213> A.fumigatus

<400> 31239

Ser Leu Thr Pro Lys Arg Glu Arg Asp Asn Ala Leu Ser Ile Leu Gly
 1 5 10 15
 Arg Leu His Ile Met Thr Ser Thr Thr Ser Asp Asn Ile Lys Ala
 20 25 30
 Tyr Thr Val Thr Asp Pro Phe Ala Ser Ser Leu Arg Gln Ala Leu Thr
 35 40 45
 Gly Ala Glu Gln Thr Gln Ser Phe Gly Val Leu Ser Gln Ile Ser Asp
 50 55 60
 Lys Glu Ala Val Ser Ile Ala Asp Leu Asp Glu Tyr Ser Arg Arg Gln
 65 70 75 80
 Trp Glu Gly Val Leu Gly Tyr Met Val Gly Thr Ser Gly Leu Gly Met
 85 90 95
 Gln Arg Asp Val Ser Leu Ser Lys Gly Val Lys Glu Leu Leu Gln Ala
 100 105 110
 Gly His Leu Val Glu Ile Arg Asp Arg Arg Val Glu Ile Thr Gln Asp
 115 120 125
 Gly Phe Ala Phe Ala Leu Gln Asp Val Gly Thr Gln Val Trp His Ile
 130 135 140
 Leu Val Leu Tyr Val Glu Ser Ala Ala Ala Ile Gly Met Asp Ser Val
 145 150 155 160
 Glu Val Leu Ser Phe Val Phe Phe Leu Ser Ser Leu Glu Leu Gly Lys
 165 170 175
 Ser Tyr Glu Lys Lys Gln Leu Thr Ser Asn Gln Leu Arg Thr Leu Thr
 180 185 190
 Asp Leu Ala Asp Phe Gly Ile Val Tyr Gln Glu Thr Pro Asp Ala Thr
 195 200 205
 His Phe Tyr Pro Thr Arg Leu Ala Thr Thr Leu Thr Ser Asp Ser Ser
 210 215 220
 Thr Leu Ser Asn Pro Leu Ala Gly Ser Leu Ser Gly Pro Thr Gly Thr
 225 230 235 240
 Ser Ser Ser Lys Ala Gly Ser Gly Phe Ile Ile Ile Glu Thr Asn Tyr
 245 250 255
 Arg Leu Tyr Ala Tyr Thr Ser Ser Pro Leu Gln Ile Ser Leu Ile Ala
 260 265 270
 Leu Phe Thr Thr Leu Lys Tyr Arg Phe Pro Asn Leu Ile Thr Gly Lys
 275 280 285
 Ile Thr Arg Gln Ser Val Arg Arg Ala Val Glu Met Gly Ile Thr Ala
 290 295 300
 Asp Gln Ile Ile Ser Tyr Leu Ser Thr His Ala His Pro Gln Met Arg
 305 310 315 320
 Lys His Asn Val Ser Arg Ser Thr Ser Asn Gln Ala Gly Met Pro Val
 325 330 335
 Ser Val Leu Pro Pro Thr Val Val Asp Gln Ile Arg Leu Trp Gln Leu


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<210> 31240
<211> 337
<212> PRT
<213> A.fumigatus
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Lys	Gly	Arg	Ser	Arg	Arg	Gly	Ser	Gly	Val	Val	Gly	Arg	Asn	Ser	Ala
1				5					10					15	
Asp	Arg	Gly	Tyr	Gly	Ala	Gly	Arg	Arg	Phe	Arg	Arg	Ser	Glu	Val	Cys
			20					25					30		
Phe	Pro	Phe	Lys	Ser	Phe	Leu	Lys	Asn	Leu	Asn	Leu	Ser	Trp	Pro	Thr
		35					40					45			
Asp	Cys	His	Arg	Phe	Thr	Gly	Met	Gly	Val	Gln	Ala	Leu	Asp	Leu	Leu
	50					55				60					
Gln	Lys	Lys	Ala	Ala	Pro	Ser	Pro	Phe	Met	Asp	Glu	Ala	Ile	Gln	Arg
65					70				75					80	
Val	Cys	Asp	Leu	Ala	Ile	Ser	Arg	Asn	Val	Arg	Leu	Leu	Val	Asp	Ala
				85				90					95		
Glu	Glu	Gln	Ala	Val	Gln	Pro	Gly	Ile	Glu	Asn	Trp	Thr	Met	Lys	Tyr
			100				105					110			
Gln	Lys	Tyr	Cys	Asn	Ser	Gln	Thr	Pro	Gly	Arg	Ala	Ile	Phe	Tyr	Asn
		115				120						125			
Thr	Tyr	Gln	Ala	Tyr	Leu	Cys	Ser	Thr	Pro	Ala	Thr	Leu	Ala	Arg	His
	130				135						140				
Leu	Glu	Ile	Ala	Arg	Gln	Glu	Gly	Tyr	Thr	Leu	Gly	Val	Lys	Leu	Val
145				150						155				160	
Arg	Gly	Ala	Tyr	Leu	Lys	Thr	Glu	Pro	Arg	His	Leu	Ile	Trp	Ser	Thr
				165				170					175		
Lys	Glu	Glu	Thr	Asp	Ala	Cys	Tyr	Asp	Gly	Ile	Val	Glu	Ala	Leu	Leu
			180					185				190			
Thr	Arg	Gln	Tyr	Asn	Ser	Met	Leu	Lys	Pro	Ala	Ser	Val	Glu	His	Thr
		195				200						205			
Thr	Glu	Leu	Pro	Pro	Val	Asn	Val	Ile	Ile	Ala	Thr	His	Asn	Arg	Asp
	210				215					220					
Ser	Val	Arg	Lys	Ala	His	Ala	Leu	Arg	Leu	Gln	Gln	Ala	Ser	Lys	Gly
225				230					235					240	
Glu	Asp	Lys	Gly	Val	Asp	Leu	Ser	Tyr	Ala	Gln	Leu	Gln	Gly	Met	Ala
				245				250					255		
Asp	Glu	Val	Ser	Cys	Glu	Leu	Leu	Glu	Gly	Phe	Gln	Ser	Pro	Glu	Pro
			260				265					270			
Thr	Gly	Lys	Asn	Ser	Phe	Val	Glu	Ser	Pro	Asn	Val	Tyr	Lys	Leu	Leu
		275				280						285			
Thr	Trp	Gly	Ser	Val	Lys	Glu	Cys	Met	Gly	Phe	Leu	Arg	Arg	Ala	
	290				295					300					
Val	Glu	Asn	Thr	Glu	Ala	Val	Gly	Arg	Thr	Lys	Gln	Ser	Gln	Glu	Ala
305				310						315				320	

12012

Met Phe Ala Glu Leu Lys Arg Arg Ala Arg Gln Ala Phe Arg Leu Ser
 325 330 335

Asn

<210> 31241

<211> 74

<212> PRT

<213> A.fumigatus

<400> 31241

Leu Ser Phe His His Ser Gly Asn Ser Ile Leu Ser Pro Glu Pro Thr
 1 5 10 15
 Thr Gly Leu Val Val Asp Pro Val Arg Trp Val Asp Pro Asp Ile Ile
 20 25 30
 Lys Tyr His Cys Gly Trp Gln Ala Pro Leu Cys Met Ser Ser Tyr
 35 40 45
 Leu Arg Asn Asp Ile Ala Asp Arg Pro Gly Phe Gln Ala Val Ser Thr
 50 55 60
 Gly Cys Thr Ile Thr Phe Phe Ser Thr Lys
 65 70

<210> 31242

<211> 230

<212> PRT

<213> A.fumigatus

<400> 31242

Phe Ser Ser Ile Asn Thr Ser Ala Ser Leu Ser Leu Ile Val Gly Phe
 1 5 10 15
 Ile Ala Gln Val Pro Pro Pro Val Ser Thr Thr Thr Met Lys Ala Ser
 20 25 30
 Arg Arg Pro Leu Arg Ala Leu Ser Cys Met Pro Thr Thr Tyr Pro Thr
 35 40 45
 Pro Arg Tyr Val Ser Gly Thr Ser Asn Ala Lys Ser Ser Ile Ala Ala
 50 55 60
 Thr Pro Ala Thr Ser Leu Leu His Gln Val Pro Pro Ser Pro Lys Lys
 65 70 75 80
 Glu Ala Thr Ser Pro Leu Ala Lys Leu Pro Leu Ser Ser Val Leu Arg
 85 90 95
 Ser Leu Met Ile Leu Ser Val Ser Ser Ser Ser Leu Leu Leu Lys Pro
 100 105 110
 Cys Ile Tyr Thr Leu Ser Val Leu Ala His Pro Lys Thr Pro Leu Leu
 115 120 125
 Asp Val Ala Lys Asn Pro Leu Leu Asn Met Leu Val Lys His Thr Ile
 130 135 140
 Tyr Lys Gln Phe Asn Ala Gly Glu Asn Lys Leu Glu Val Gln Gln Ser
 145 150 155 160
 Ile Arg Asp Ile Lys Asn Leu Gly Tyr Arg Gly Val Leu Leu Gly Tyr
 165 170 175
 Ala Lys Glu Val Leu Val Gly Glu Ser Asn Val Ser Pro Arg Asp Glu
 180 185 190
 Lys Ala Ala Arg Glu Glu Val Gln Ala Trp Leu Asp Gly Thr Leu Gln
 195 200 205
 Thr Val Asp Met Ala Gln Glu Gly Asp Phe Val Ala Leu Lys Tyr Val
 210 215 220

12013

Ser Leu Leu Ser Leu Phe
225 230

<210> 31243

<211> 274

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (18), (44)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31243

Leu Ser Gln Cys Asn Arg Phe Arg Tyr Arg Val Thr Phe Phe Ala Pro
1 5 10 15
Thr Xaa Ile Thr Asp His Ala His Glu Pro Pro Val Thr Tyr Leu Asn
20 25 30
Lys Ser Gln Ser Tyr Ser Val Ser Ile Val Asp Xaa Thr Pro Pro Ala
35 40 45
His Ala Thr Gln Ser Val Lys Tyr Arg Thr Ser Val Arg Ile Thr Phe
50 55 60
Glu Glu Thr Ala His Arg Ser Asn Pro Ala Arg Cys Trp Arg Leu Trp
65 70 75 80
Lys Glu Ala Arg Gly Ala Val Glu Ala Gln Gln Arg Gly Gly Lys Met
85 90 95
Arg Ala Leu Glu Phe Val Asp Leu Arg Leu Gly Ser Lys Lys Asn Ala
100 105 110
Pro Arg Ile Lys Lys Val Asp Ser Ala Ser Phe Asp Gly Phe Cys Val
115 120 125
Thr Trp Thr Ser Thr Pro Glu Ala Gly Ser Ser Glu Cys Val Ile Asn
130 135 140
Val Arg Leu Asn Phe Leu Ser Thr Asp Phe Ser Leu Ser Lys Gly Val
145 150 155 160
Lys Gly Val Pro Thr Arg Leu Cys Val Lys Thr Glu Met Ile Gly Leu
165 170 175
Glu Asp Gly Thr Pro Ala Ser Gly Ser Asp Thr Glu Ala Glu Ile Cys
180 185 190
Tyr Cys Lys Val Lys Val Phe Arg Asp His Gly Ala Glu Arg Lys Leu
195 200 205
Ser Asn Asp Val Ala His Val Gln Lys Ala Ile His Lys Val Glu Arg
210 215 220
Gln Ile Ala Gln Gly Asp Ile Asp Gly His Asn Gly Leu Gly Lys Arg
225 230 235 240
Lys Arg Arg Lys Gly Val Gly His Gly Leu Thr Lys Asn His Ala Val
245 250 255
Ser Met Ser Leu Ser Pro Ser Arg Ser Asn Ser Leu Thr Gly Ile Asp
260 265 270
Asp Leu

<210> 31244

<211> 368

<212> PRT

<213> A.fumigatus

<400> 31244

Asn	Asp	Ala	Arg	Arg	Pro	Val	Asp	Leu	Trp	Arg	Pro	Ile	Ser	Ser	Ile
1				5					10					15	
Arg	Arg	Glu	Glu	Cys	Thr	Leu	Glu	Ala	Asp	Leu	Asn	Arg	Ala	Gln	Ser
		20						25					30		
Gln	Val	Thr	Ala	Gln	Gly	Asn	Ala	Leu	Lys	Ala	Met	Ala	Ala	Glu	Met
		35					40					45			
Pro	Leu	Glu	Ala	Gly	Gly	Arg	Asn	Thr	Tyr	Thr	Glu	Ile	Leu	Glu	Leu
	50					55					60				
Ile	Lys	Asp	Leu	Asp	Pro	His	Ser	Thr	Thr	His	Ser	Ser	Gly	Lys	Pro
65					70					75					80
Ser	Leu	Ser	Arg	Asp	Ala	Asp	Ser	Arg	Asp	Glu	Ile	Met	Glu	Glu	Tyr
			85						90					95	
Arg	Gln	Asp	Leu	Ala	Lys	Ala	Arg	Ala	Glu	Leu	Glu	Glu	Ala	Ser	Ser
			100					105					110		
Val	Arg	Lys	Ala	Leu	Glu	Leu	Asp	Leu	Lys	Arg	Ser	Gln	Glu	Gln	Ala
		115					120					125			
Ala	Glu	Ala	Gln	Thr	Leu	Phe	Lys	Ser	Val	Glu	Asp	Glu	Asn	Thr	Arg
		130				135					140				
Leu	Thr	Lys	Gln	Ile	Asp	Asp	Leu	Arg	Thr	Ser	Leu	Asp	Lys	Val	Gln
145					150					155					160
Gly	Glu	Leu	Gly	Gln	Met	Lys	Ala	Glu	His	Ser	Glu	Ala	Leu	Glu	Thr
			165					170						175	
Ile	Asn	Arg	Leu	Gln	Thr	Glu	Arg	Lys	Thr	Gln	Gln	Pro	Ser	Pro	Pro
			180					185					190		
Pro	Ser	Pro	Pro	Thr	Pro	His	Asn	Ile	Gly	Gln	Ala	Glu	Lys	Leu	Glu
		195					200					205			
Glu	Ser	Tyr	Arg	Ala	Gln	Leu	Lys	Ser	Leu	His	Thr	Ala	His	Ala	Thr
	210				215						220				
Ala	Ile	Ser	Thr	Leu	Arg	Ser	Ser	His	Ala	Asp	Ser	Thr	Arg	Lys	Leu
225					230					235					240
Arg	Asp	Leu	Leu	Ala	Ala	Ala	Glu	Lys	Arg	Glu	Ser	Lys	Leu	Lys	Ala
			245					250						255	
Glu	Val	Gln	Ser	Leu	Leu	Ala	Ala	Arg	Ala	Ala	Gln	Asp	Thr	Gln	Leu
		260						265					270		
Gln	Ser	Leu	Asp	Thr	Glu	Val	Lys	Arg	Leu	Gln	Ser	Ala	Ile	Ala	Val
		275					280					285			
Lys	Glu	Glu	Ala	Ala	Ala	Ala	Leu	Asp	Glu	Arg	Ile	Ala	Arg	Ser	Val
	290					295					300				
Glu	Lys	Arg	Glu	Lys	Glu	Trp	Glu	Arg	Arg	Val	Asp	Leu	Leu	Leu	Lys
305					310					315					320
Glu	Arg	Glu	Arg	Met	Ala	Lys	Ala	Leu	Met	Trp	Ala	Trp	Gly	Glu	Lys
			325					330						335	
Glu	Val	Gly	Glu	Val	Lys	Glu	Asn	Leu	Gly	Glu	Asp	Gly	Arg	Arg	Val
		340					345					350			
Arg	Gln	Ala	Tyr	Arg	Tyr	Lys	Tyr	Ala	Gln	Arg	Lys	Gly	Arg	Glu	Gly
		355					360					365			

<210> 31245

<211> 165

<212> PRT

<213> A.fumigatus

<400> 31245

Leu	Ser	Gly	Ala	Leu	Cys	Leu	Ser	Ala	Met	Ala	Pro	Ile	Lys	Arg	Lys
1				5					10					15	

12015

Gly Asn Ala Gly Glu Glu Ala Val Thr Arg Gln Pro Gln Lys Arg Val
 20 25 30
 Arg Val Gly Gly Ala Glu Gln Gly Lys Asp Gln Lys Lys Gln Arg Thr
 35 40 45
 Ser Glu Ser Thr Ser Asp Leu Lys Pro Thr Glu Leu Thr Val Leu Arg
 50 55 60
 Asp Asp Glu Pro Ser Phe Pro Arg Gly Gly Gly Ser Val Leu Thr Pro
 65 70 75 80
 Leu Glu Lys Lys Gln Ile His Ile Gln Ala Thr Lys Asp Val Leu Phe
 85 90 95
 Glu Gln Lys Gly Ser Lys Lys Ser Ser Asp Asn Phe Ala Val Gly Asp
 100 105 110
 Asp Asp Glu Asp Ile Glu Met Asp Asp Ala Glu Asp Asn Ala Thr Ser
 115 120 125
 Thr Lys Leu Ser Arg Lys Arg Lys Ala Lys Ser Lys Lys Arg Ala Lys
 130 135 140
 Glu Glu Ala Asn Glu Lys Gln Gly Val Arg Ile Glu Gly Leu Asn Phe
 145 150 155 160
 Lys Val Gly Pro His
 165

<210> 31246

<211> 64

<212> PRT

<213> A.fumigatus

<400> 31246

Leu Ile Gly Thr Gly Ser Gln Lys Asn Ser Gly Tyr Lys Lys Phe Leu
 1 5 10 15
 Asp Leu Cys Arg Gln Thr Ala Phe Arg Ile Lys Tyr Asn Pro Ile Thr
 20 25 30
 Leu Ile Glu Ser Thr Ala Tyr Trp Lys Lys Gln Leu Ala Ser Arg
 35 40 45
 Lys Lys His Val Asp Thr Arg Leu Ile Cys Ser Ala Ala Arg Asp Ala
 50 55 60

<210> 31247

<211> 67

<212> PRT

<213> A.fumigatus

<400> 31247

Arg Thr Asp Leu Val Pro Arg Ser Asp Gln Leu Asp Thr Tyr Thr Val
 1 5 10 15
 Glu Pro Ser Leu Asn Lys Lys Thr Leu Ser Pro Ser Ser Pro Ser
 20 25 30
 Glu Ile Val Asn Phe Thr Pro Ala Arg Leu Val Leu Ser Pro Val Lys
 35 40 45
 Leu Val Val Pro Leu Phe Pro Ser Pro Ser Pro Leu Phe Asn Gly Ser
 50 55 60
 Thr Thr Gly
 65

<210> 31248

<211> 442

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (420), (432)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31248

His	Arg	Val	Gly	Val	Leu	Ser	Asp	Arg	Gly	Thr	Trp	Ser	Cys	Leu	Tyr
1				5					10					15	
Glu	Gly	Cys	Gly	Phe	Gly	Ser	Ala	Ser	Ser	Gln	Ile	Val	Val	Ala	Met
			20					25					30		
Ala	Pro	Ser	Ile	Trp	Glu	Lys	Ala	Lys	Val	Gly	Gly	Lys	Lys	Gly	Phe
		35					40					45			
Asp	Lys	Ala	Trp	Asn	Thr	Val	Asp	Lys	Leu	Gly	Ala	Pro	Val	Asn	Arg
	50					55					60				
Leu	Ser	Asn	Arg	Val	Gly	Ala	Glu	Ala	Phe	Trp	Pro	Met	Thr	Leu	Asp
65				70					75					80	
Lys	Glu	Ser	Asp	Lys	Ala	Ala	Arg	Ile	Leu	Arg	Ser	Phe	Cys	Lys	Asp
				85					90					95	
Gly	Phe	Tyr	Thr	Lys	Glu	Asp	Leu	Glu	Gln	Asn	Gly	Thr	Asp	Ser	Asp
			100					105					110		
Gly	Lys	Ile	Asn	Arg	Pro	Lys	Gly	Lys	Gln	Arg	Val	Ile	Lys	Lys	Ile
		115					120					125			
Pro	Ala	Pro	Val	Ile	Gln	Arg	Ala	Val	Gly	Leu	Ala	Ile	Phe	Thr	Thr
	130					135					140				
Met	Arg	Thr	Gly	Leu	Trp	Leu	Ser	Gly	Ser	Gly	Gly	Ser	Gly	Val	Leu
145				150					155					160	
Leu	Ala	Arg	Ile	Pro	Glu	Thr	Gly	Glu	Trp	Ser	Pro	Pro	Ser	Gly	Ile
			165					170						175	
Met	Leu	His	Thr	Ala	Gly	Ile	Gly	Phe	Leu	Ala	Gly	Val	Asp	Ile	Tyr
		180						185					190		
Asp	Cys	Val	Val	Val	Ile	Asn	Thr	Phe	Glu	Ala	Leu	Glu	Ala	Phe	Lys
	195						200					205			
Lys	Val	Arg	Cys	Thr	Leu	Gly	Gly	Glu	Val	Ser	Ala	Ala	Ala	Gly	Pro
	210					215					220				
Tyr	Gly	Val	Gly	Gly	Val	Leu	Glu	Ser	Glu	Val	His	Lys	Arg	Gln	Ala
225					230					235				240	
Pro	Ile	Trp	Thr	Tyr	Met	Lys	Ser	Arg	Gly	Leu	Tyr	Ala	Gly	Val	Gln
			245						250					255	
Val	Asp	Gly	Thr	Ile	Ile	Ile	Glu	Arg	Thr	Asp	Glu	Asn	Glu	Arg	Phe
		260						265					270		
Tyr	Gly	Glu	Arg	Ile	Ser	Val	Thr	Asp	Ile	Leu	Ala	Gly	Lys	Ala	Lys
		275					280					285			
Arg	Pro	Pro	Arg	Ser	Ile	Gln	Thr	Leu	Ile	Gln	Thr	Ile	Lys	Ala	Ala
	290					295					300				
Gln	Gly	Asp	Ser	Asp	Val	Glu	Glu	Ser	Trp	Ile	Pro	Pro	Pro	Gly	Gln
305					310					315				320	
Thr	Pro	Gly	Asp	Val	Glu	Val	Gln	Pro	Ala	Thr	Leu	Phe	Gly	Val	Pro
			325						330					335	
Asp	Pro	Asp	Asp	Pro	Asp	Pro	Phe	Gly	Val	Lys	Ala	Leu	Glu	Ala	Glu
			340					345				350			
Gly	Leu	Phe	Ile	Arg	Glu	Ala	Gly	Thr	Arg	Ser	Arg	Pro	Ser	Tyr	Asp
		355					360					365			
Val	Phe	Glu	Phe	Lys	Pro	Ser	Pro	His	Ser	Pro	Ile	Tyr	Ser	Thr	Phe
	370					375					380				

12017

Arg Arg Ser Leu Asp Ser Ser Pro Arg Ser Ser Trp Arg Ala Ser Val
 385 390 395 400
 Gln Ser His Ala Ser Val Asp Arg Gly Thr Gln Thr Asp Val Ala Ser
 405 410 415
 Phe Thr Ala Xaa Thr Ser Ile Cys Arg Ala Ser Ala Arg Ser Ser Xaa
 420 425 430
 Ser Met Ser Gln Gln Ser Arg Thr Ile Ala
 435 440

<210> 31249
 <211> 198
 <212> PRT
 <213> A.fumigatus

<400> 31249
 Lys Cys Ser Glu Val Asn Ser Phe Ser Pro Ala Ala Leu Glu Thr Glu
 1 5 10 15
 Asp Ile Glu Val Ser Asp Ala Pro Gln Pro Gly Ile Ser Glu Pro Ala
 20 25 30
 Ala Pro Val Gly Ala Ala Ala Ala Gln Val Lys Glu Thr Lys Pro Glu
 35 40 45
 Glu Glu Ser Arg Glu Asp Glu Ala Pro Gly Ala Ala Ser Pro Glu Glu
 50 55 60
 Glu Ile Pro Glu Glu Glu Ser Pro Gln Glu Glu Ser Pro Gln Glu Glu
 65 70 75 80
 Ser Pro Gln Glu Glu Ser Pro Glu Glu Glu Ala Pro Gly Val Ala Ser
 85 90 95
 Pro Glu Leu Gln Pro Arg Ser Gly Val Arg Thr Tyr Gly Lys Gly Arg
 100 105 110
 Arg Phe Pro Ala Gly Glu Thr Ala Glu Ala Phe Glu Thr Glu Asn Ile
 115 120 125
 Pro Trp Thr Lys Gly Asp Pro His Asp Trp Pro Trp Thr Tyr Pro
 130 135 140
 Leu Pro Asn Gly Gly Ala Ile Met Ala Glu Lys Lys Thr Lys Glu Arg
 145 150 155 160
 Thr Gly Gly Gly Arg Leu Pro Leu Ala Ile Thr Leu Leu Lys Phe Gln
 165 170 175
 Cys Ser Lys Thr Lys Asp Gly Gly Val Leu Arg Cys Ile Ser Ile Thr
 180 185 190
 Leu Val Arg Tyr Tyr Asp
 195

<210> 31250
 <211> 107
 <212> PRT
 <213> A.fumigatus

<400> 31250
 Val Arg Thr Pro Asp Leu Gly Cys Ser Ser Gly Glu Ala Thr Pro Gly
 1 5 10 15
 Ala Ser Ser Ser Gly Asp Ser Ser Trp Gly Asp Ser Ser Trp Gly Asp
 20 25 30
 Ser Ser Trp Gly Asp Ser Ser Ser Gly Ile Ser Ser Ser Gly Glu Ala
 35 40 45
 Ala Pro Gly Ala Ser Ser Ser Arg Asp Ser Ser Ser Gly Phe Val Ser
 50 55 60

12018

Phe Thr Cys Ala Ala Ala Ala Pro Thr Gly Ala Ala Gly Ser Asp Ile
 65 70 75 80
 Pro Gly Cys Gly Ala Ser Leu Thr Ser Met Ser Ser Val Ser Ser Ala
 85 90 95
 Ala Gly Leu Asn Glu Phe Thr Ser Glu His Phe
 100 105

<210> 31251

<211> 658

<212> PRT

<213> A.fumigatus

<400> 31251

Glu Val Leu Thr Ala Gly Thr Ala Glu Glu Gly His Ala Glu Arg Tyr
 1 5 10 15
 Thr Val Ala Ser Gln Tyr Leu Asn Leu Cys Lys Thr Ile His Gly Gln
 20 25 30
 Ser Ser Pro Ala Thr Arg Asp Ala Thr Leu Arg Leu Ala Glu Ile Cys
 35 40 45
 Glu Gln Ser Asp Ser His Leu Glu Glu Ala Leu Ala Leu Tyr Arg His
 50 55 60
 Val Leu Gln Thr Lys Glu Trp Val Pro Pro Thr Gln Ala Ser Arg Ala
 65 70 75 80
 Leu Pro Asp Met Thr Asp Pro Thr Ala Lys Met Val Lys His Lys Leu
 85 90 95
 Ala Gln Ile Tyr Leu Arg Lys Lys Ser Thr Ser Asp Glu Ala His Gly
 100 105 110
 Leu Tyr Met Glu Glu Leu Thr Leu Ser Lys Gln Gln Arg Gly Leu Ser
 115 120 125
 Ser Ser Pro Thr Met Leu Trp Leu Arg Glu Val Ala Leu Val Tyr Ala
 130 135 140
 Leu Lys Asp Thr Ile Glu Ala Arg Asn Gln Gly Ala Thr Leu Leu Arg
 145 150 155 160
 Asp His Val Asn Glu Val Ile His Val Thr Ala Ser Arg Glu Ala Val
 165 170 175
 Val Glu Arg Ala His Arg Leu Ala Glu Ile Tyr Leu Glu Cys Gly Tyr
 180 185 190
 Lys Asp Ala Gly Tyr Asp Leu Ile Asp Glu Leu His Lys Lys Val Ile
 195 200 205
 Leu Asp Thr Ser Ala Ala Gln Arg Leu Ala Leu Asn Glu Tyr Arg Pro
 210 215 220
 Ala Val Phe Val Ala Ala Phe Glu Glu Lys Phe Gly Lys Lys Met Thr
 225 230 235 240
 Tyr Ser Gln Ile Leu Asp Ala Leu Ser Gln Glu Ser Gly Val Tyr His
 245 250 255
 Glu Tyr Gln Thr Ser Leu Ser Arg His Asp Leu Val Thr Thr Leu Val
 260 265 270
 Ala Gly Gln Lys Leu His Val Leu Gln Thr Glu Gln Arg Arg Thr Thr
 275 280 285
 Ala Ala Thr Lys Thr Gln Gly Ser Leu Tyr Glu Tyr Phe Cys Asn Ser
 290 295 300
 Leu Ser Val Ser Ser Ser Leu Arg Ser Arg Asp Val Val His Gln Phe
 305 310 315 320
 Tyr Asn Leu Cys Arg Arg Glu Val Leu Asn Ala Asp Tyr Asn Ile Asn
 325 330 335
 Ile Ile Thr Glu Thr Thr His Met Val Arg Asp Leu Cys Asp Ser Ser

12019

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      340      345      350
Arg Phe Gln Asp Ala Ala Glu Leu Thr Gly Val Phe His Ser Phe Val
      355      360      365
His Leu Thr Asp Gly Leu Asn Ser His Glu Ala Ile Phe Thr Ala Ile
      370      375      380
Lys Leu Cys Leu Tyr Leu Asn Gly Tyr Gln Thr Ser Lys Cys Ser Asp
385      390      395      400
Ser Gly Lys Ala Lys His Met Ala Phe Glu Ser Gln Met Leu Leu Gln
      405      410      415
Glu Ile Met Asp Arg Ala Arg His Leu Lys Ile Glu Phe Ser Glu Leu
      420      425      430
Pro Phe Ala Glu Leu Asn Asp Leu Ala Thr Val Leu Gly Glu His Glu
      435      440      445
Met Phe Asp Asp Leu Glu Val Tyr Asp Pro Tyr Pro Phe Cys Leu Pro
450      455      460
Asp Tyr Met His Met Leu Ile Ala Pro Gly His Pro His Arg Pro Leu
465      470      475      480
Asp Leu Ala Ser Arg Pro Lys Asn Met Val Phe Gln His Asp Arg Leu
      485      490      495
Asp Arg Pro Ala Ser Gly Gly Asn Pro Phe Leu Pro Arg Ala His Arg
      500      505      510
Arg Gly Asn Ala Ala Arg Gln Gly Tyr Leu Leu Gln Pro Pro Thr Gly
      515      520      525
Leu Gly Gln Leu Arg Pro Arg His Ala Gly Asp Asp Gln Ala Ala Val
530      535      540
Arg Pro Val His Gly Val Gly Glu Pro Pro Gly Gly Arg Gly Ala Ala
545      550      555      560
Arg Asp Gly Ala Ala Arg Ala Pro Gln Arg His Arg His Arg Pro Gly
      565      570      575
Ala Cys Gly Arg Arg Arg Gln Pro Ala Ser Ala Ala Ala His Ala Arg
      580      585      590
Ala Val Ala Ala Pro Gln Gly Glu Gln Ser Gly Arg Gly His Gln Arg
595      600      605
Val Arg Arg Ala Gly Ala Ala Gly Trp His Gln Val Trp Arg Glu Ala
610      615      620
Gly Gly Ser Ala Arg Arg Arg Arg Arg Cys Gly Asn Val Ala Ser Ala
625      630      635      640
Glu Ala Val Gln Pro Gly Tyr Gly Arg Gly Ala Asp Ala Phe Glu Pro
      645      650      655
Pro Ala

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<210> 31252
 <211> 207
 <212> PRT
 <213> A.fumigatus

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<400> 31252
Leu His Gln Ala Ile Leu Thr Asp Leu Trp Thr Ser Arg Leu Val Gln
1      5      10      15
Lys Thr Trp Ser Ser Asn Met Ile Val Trp Ile Gly Arg Arg Leu Val
      20      25      30
Glu Thr Arg Phe Cys Arg Gly His Thr Asp Ala Ala Thr Gln Leu Gly
      35      40      45
Arg Asp Ile Cys Tyr Asn Leu Arg Gln Val Trp Gly Asn Cys Asp Pro
50      55      60

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12020

Val Thr Leu Glu Met Thr Lys Leu Leu Ser Gly Leu Tyr Thr Ala Ser
65 70 75 80
Gly Asn His Leu Ala Ala Val Ala Leu His Glu Thr Ala Leu His Glu
85 90 95
Leu Leu Asn Asp Thr Asp Ile Asp Gln Ala His Ala Ala Asp Ala Ala
100 105 110
Ser Gln His Leu Arg Leu Leu Met His Ala Gln Ser Arg Leu Arg Lys
115 120 125
Glu Ser Ser Gln Ala Val Asp Thr Ser Ala Tyr Asp Glu Leu Val Gln
130 135 140
Gln Val Gly Thr Lys Phe Gly Val Arg Pro Glu Gly Leu Gln Gly Ala
145 150 155 160
Gly Asp Asp Val Gly Met Trp His Arg Pro Arg Arg Phe Ser Leu Asp
165 170 175
Met Gly Glu Glu Gln Met His Ser Asn His Leu Arg Ser Ser Ser Gly
180 185 190
Ser Ala Val Leu His Gly Tyr Phe Ser Ala Ser Gly Glu Asn His
195 200 205

<210> 31253

<211> 406

<212> PRT

<213> A.fumigatus

<400> 31253

Thr Ile Gln Gln Ala Asp Ser Asp His Gly Gly Asp Ala Leu Gln Glu
1 5 10 15
Asp Leu His Val Leu Gln Phe Val Asn Leu Ala Gly Ala His Arg Val
20 25 30
Val Ala Glu Gly Ala His Arg Pro Ala Lys Gly Ser Ala Leu Leu Glu
35 40 45
Glu Thr Ser Val Gln Ala Phe Val Arg Phe Leu His Glu Phe Leu Val
50 55 60
Gly Glu Leu Leu Gly Leu Val Gly Asp Lys Gly Leu Leu Val Gly Gly
65 70 75 80
Asp Gly Arg Arg Gly Asp Gly Phe Asp Leu Gly Leu Gly Val Leu Ala
85 90 95
Val Lys Leu Gly Glu Gly Leu Leu Gly Gly Ser Gly Gly Gly Leu Gly
100 105 110
Ser Val Leu Leu Val Val Leu Val Leu Asp Asp Gly Val Val Gly Asp
115 120 125
Phe Gly Thr Val Gly Ala Leu Arg Ser Gly Thr Leu Glu Gln Gln Arg
130 135 140
Thr Glu Asp Lys His Pro Pro Leu Asp Ala Val Ile Pro Leu Asp His
145 150 155 160
Thr Gly Val Asp Lys Gly Asn Glu Glu Asp Gly Gly Glu Asp Gly Asn
165 170 175
Thr Thr Thr Ala Thr His Gly His Arg Gly Asn Ile Pro Ala Gly Leu
180 185 190
Leu Ala Gln Thr Glu Thr Arg Arg Thr Leu Val Asp Asn Gly Gln Gly
195 200 205
Thr Asp Arg Gly Gly Glu Glu Glu Pro Glu Gly Arg Ala Val Asp Ser
210 215 220
Pro Arg His Gly Val Leu Ala His Val Asp Asp Glu Leu Asp Gln His
225 230 235 240
Glu Asp Thr Gly Thr Glu Thr Gly Arg Asp Gly Gly Ser His Thr Gln

12021

245 250 255
 Ala Gly Glu Asp Ser Ser Gln Ser Leu Ser Val Val Pro Ser Pro Leu
 260 265 270
 Tyr Leu Gly Ser Thr Asp Gly Cys Asn Thr Asp Thr Ser Asn Gly Arg
 275 280 285
 Asp Glu Gly Val Gly Arg Arg Asp Met Gly Arg Val Leu Gly Ala Pro
 290 295 300
 His Asn Pro Gly Gly Ser Ser Gly Glu Gly Thr Gly Lys Ser Lys His
 305 310 315 320
 Leu His Thr Gly Ile Thr Ala Glu Gly Arg Val Gly Asp Asp Thr Val
 325 330 335
 Leu Asp Gly Val Ser Arg Pro Ser Thr Asp Cys Asp Gly Thr Glu His
 340 345 350
 Leu Glu Asp Gly Ala Glu Asp His Gly Leu Ser Val Gly Asn Arg Ser
 355 360 365
 Gly Arg Asn Thr Gly Ser Pro Gly Val Gly His Ile Ile Phe Arg Gln
 370 375 380
 Ala Met Ser Ala Asn His Leu Ser Lys Arg Gly Gln Arg Asp Ile Asp
 385 390 395 400
 Ile Leu Ala Pro Leu Leu
 405

<210> 31254
 <211> 67
 <212> PRT
 <213> A.fumigatus

<400> 31254
 Gln His Lys Ser Pro Val Ala Arg Ser Leu Ser Glu Ser Ile Ala Asn
 1 5 10 15
 Gln Ala Leu Ile His Leu Ser His Thr His Thr His Thr Phe
 20 25 30
 Thr Val Glu Met Val Leu Ser Gln Tyr Asp Tyr Ile Phe Ala Ile Gly
 35 40 45
 Thr Leu Phe Ala Met Leu Asp Ala Tyr Asn Asn Gly Ala Ser Met Ser
 50 55 60
 Ile Ser Leu
 65

<210> 31255
 <211> 98
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (9)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31255
 Ala Ile Val Met Gly Asn Lys Ile Xaa Tyr His Ser Pro Ser Arg Gly
 1 5 10 15
 Cys Ser Met Glu Leu Gly Ala Ala Ile Thr Val Leu Val Phe Ser Gln
 20 25 30
 Tyr Ser Leu Pro Val Ser Thr Ser Met Cys Ile Thr Gly Ala Thr Val
 35 40 45

12022

Gly Val Gly Leu Cys Asn Gly Thr Leu Lys Ala Val Asn Phe Gln Arg
 50 55 60
 Val Gly Leu Leu Leu Leu Ala Trp Ile Met Thr Ile Pro Ile Ala Gly
 65 70 75 80
 Thr Leu Gly Gly Val Leu Met Gly Leu Phe Ile Asn Ala Pro His Phe
 85 90 95
 Ser Ser

<210> 31256
 <211> 498
 <212> PRT
 <213> A.fumigatus

<400> 31256
 His Cys Leu Ser Lys Asp Asp Val Ala Asn Ser Trp Ala Thr Ser Val
 1 5 10 15
 Ser Ser Arg Ser Val Thr Tyr Arg Gln Ala Met Ile Phe Gly Thr Val
 20 25 30
 Phe Glu Met Leu Gly Ala Ile Thr Val Gly Ala Arg Thr Ala Asp Thr
 35 40 45
 Ile Lys Asn Gly Ile Ile Pro Asn Ser Ala Phe Arg Gly Asp Ala Gly
 50 55 60
 Val Gln Met Leu Ala Phe Thr Cys Ala Leu Ala Ala Ala Ser Ser Trp
 65 70 75 80
 Val Met Trp Cys Thr Lys His Ser Ala His Val Ser Ser Thr Tyr Ser
 85 90 95
 Leu Ile Ser Ala Val Ala Gly Val Gly Val Ala Thr Val Gly Ala Ser
 100 105 110
 Lys Val Gln Trp Gly Trp Asn His Gly Lys Gly Leu Gly Ala Ile Phe
 115 120 125
 Ala Gly Leu Gly Met Ala Pro Ala Ile Ser Ala Gly Phe Gly Ala Ser
 130 135 140
 Ile Phe Met Leu Ile Lys Leu Ile Val His Met Arg Lys Asn Pro Val
 145 150 155 160
 Pro Trp Ala Val Tyr Ser Ser Pro Phe Trp Phe Leu Leu Ala Ala Thr
 165 170 175
 Val Cys Thr Leu Ser Ile Val Tyr Lys Gly Ser Pro Ser Leu Gly Leu
 180 185 190
 Ser Lys Lys Pro Ser Trp Tyr Ile Ala Ser Val Thr Met Gly Cys Gly
 195 200 205
 Gly Gly Val Ala Ile Leu Ser Ala Ile Phe Phe Val Pro Phe Val His
 210 215 220
 Ala Arg Val Ile Lys Arg Asp His Gly Val Lys Trp Trp Met Phe Ile
 225 230 235 240
 Leu Gly Pro Leu Leu Phe Lys Arg Pro Ala Pro Gln Gly Ala Asp Arg
 245 250 255
 Ala Lys Val Pro Asn Tyr Ala Val Val Gln Asp Glu Asp His Glu Glu
 260 265 270
 Asp Ala Thr Gln Ala Ser Pro Ala Pro Ser Glu Gln Thr Leu Ser Glu
 275 280 285
 Phe Asp Ser Lys Asn Pro Lys Thr Glu Ile Glu Pro Ile Thr Ser Pro
 290 295 300
 Ala Ile Ser Pro Asn Glu Lys Thr Leu Val Thr Asn Glu Thr Lys Gln
 305 310 315 320
 Leu Thr Tyr Lys Glu Leu Met Glu Glu Ser Asn Lys Arg Leu Asn Ala

12023

325 330 335
 Arg Leu Leu Lys Lys Arg Gly Pro Leu Gly Trp Ala Met Arg Thr Leu
 340 345 350
 Arg Asp Asn Pro Met Gly Pro Gly Glu Ile Tyr Glu Leu Lys Asn Met
 355 360 365
 Lys Ile Leu Leu Lys Arg Ile Pro Ala Met Ile Thr Val Gly Leu Leu
 370 375 380
 Tyr Gly Leu His Tyr Asp Ile His Ala Ala Gln Ser Gly Ile His Gly
 385 390 395 400
 Thr Pro Glu Gly Glu Arg Met Gln Arg Val Tyr Ala His Ala Glu Lys
 405 410 415
 Tyr Pro Asn Glu Val Glu His Thr Tyr Ser Phe Val Gln Val Leu Thr
 420 425 430
 Ala Cys Thr Ala Ser Phe Ala His Gly Ala Asn Asp Ile Gly Asn Ser
 435 440 445
 Val Gly Pro Trp Ala Val Ile Tyr Ser Ala Trp Lys Thr Gly Asn Ala
 450 455 460
 Ala Ala Ser Lys Ala Pro Val Pro Val Trp Gln Leu Ala Val Leu Ser
 465 470 475 480
 Gly Cys Ile Ser Ile Gly Leu Ile Thr Tyr Gly Tyr Asn Ile Met Lys
 485 490 495
 Gly Lys

<210> 31257
 <211> 69
 <212> PRT
 <213> A.fumigatus

<400> 31257
 Ser Phe Glu Ser Ser Leu Leu Pro Lys Tyr Pro Leu Asn Ser Thr Ser
 1 5 10 15
 Lys Val Met Pro Lys Val Gly Ser Glu Gly Pro Lys Leu Pro Asn Asn
 20 25 30
 Ile Thr Gly Thr Thr Ala Pro Pro Ser Asp Leu Glu Trp Pro Trp Thr
 35 40 45
 Phe Arg Ala Gly Thr Glu Ser Phe Pro Phe Leu Phe Ser Phe Ile Phe
 50 55 60
 Ser Ser Arg His Cys
 65

<210> 31258
 <211> 137
 <212> PRT
 <213> A.fumigatus

<400> 31258
 Val Ser Arg Gln Arg Arg Leu Pro Val Arg Pro Phe Pro Ser Leu Ile
 1 5 10 15
 Asp Leu Ala Asn Ser Asp Arg Tyr Ile Pro Tyr Ala Glu Glu Ser Ser
 20 25 30
 Asp Ile Asn Ala Cys Gly Ile Pro Ile Asn Tyr Asn Ala Ser Lys Glu
 35 40 45
 Trp Ala Asp Lys Lys Val Val Leu Phe Ser Val Pro Gly Leu Phe Thr
 50 55 60
 Ser Pro Ala Leu Pro Asn Tyr Glu Ser Asn Ser Thr Gly Ala Phe Thr

12024

65		70		75		80									
Pro	Thr	Cys	Ser	Ala	Asn	His	Leu	Pro	Gly	Tyr	Ile	Lys	Ser	Leu	Pro
				85					90					95	
Gln	Leu	Lys	Glu	Lys	Gly	Val	Gln	Ile	Val	Ala	Val	Leu	Ala	Ser	Asn
			100					105					110		
Asp	Pro	Tyr	Val	Met	Ser	Ala	Trp	Gly	Lys	Ala	Asn	Gln	Val	Thr	Gly
		115					120					125			
Asp	Asp	Ile	Val	Arg	Gly	Ala	Thr	Thr							
		130					135								

<210> 31259

<211> 62

<212> PRT

<213> A.fumigatus

<400> 31259

Glu	Pro	Gly	Pro	Lys	Gly	Leu	Ala	Gln	Met	Gly	Ala	Ile	Ser	Pro	Gly
1				5					10				15		
Gly	Met	Ser	Ser	Ser	Pro	Pro	Glu	Thr	Pro	Lys	Gly	Pro	Lys	Ile	Gln
			20					25					30		
Thr	Leu	His	Thr	Ala	Tyr	Gln	Thr	Asp	Leu	Ala	Arg	Ala	Asp	Ser	Pro
		35					40					45			
Gly	Pro	Ser	Glu	Arg	Leu	Lys	Arg	Arg	Leu	Leu	Trp	Val	Leu		
	50					55					60				

<210> 31260

<211> 531

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (336)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31260

Leu	Arg	Gly	Ser	Ala	Phe	Pro	Ser	Ser	Pro	Trp	Arg	Glu	Asp	Ala	Arg
1				5					10				15		
Pro	Lys	Ser	Arg	Ser	Arg	Asp	Ser	Gly	His	Arg	Arg	Ser	Arg	Asp	Lys
			20					25					30		
Gly	Ser	Arg	Ser	Ser	Ser	Leu	Ser	Arg	His	Ala	Tyr	Ser	Gln	Glu	Ala
		35					40					45			
Asn	Phe	Leu	Ala	Ser	Arg	Gly	Arg	Arg	Glu	His	Ser	Pro	Lys	Arg	His
	50					55					60				
Glu	Ser	Glu	Pro	Gly	Phe	Pro	Arg	Asp	Leu	His	Gly	His	Glu	Ala	Ala
65					70				75				80		
Asn	Arg	Gly	Gly	Ser	Lys	Ala	Arg	Asp	Ser	Glu	His	Asn	Gly	Pro	His
			85					90					95		
Lys	Gly	Ser	Asp	Lys	Asn	Asp	Trp	Val	Gly	Gln	His	Leu	Asp	Glu	Ile
		100					105					110			
Asp	Ser	Ala	His	Trp	Ile	His	Arg	Asp	Lys	Leu	Ala	Arg	Ile	Glu	Ser
		115				120						125			
Glu	Glu	Leu	Gln	Gln	Ala	Ala	Tyr	Leu	Phe	His	Arg	Arg	Ala	Gly	Leu
	130					135					140				
Glu	Asn	Gly	Lys	Ala	Ser	Arg	Ala	Arg	Asn	His	Asp	Phe	Asp	Asn	Ser
145					150				155					160	

Gly Phe Ser Gly Leu Val Gly Ala Pro Thr Ala Ser Glu Ser Met Glu
 165 170 175
 Pro Trp Pro Asn Leu Arg Asp Glu Gln His Lys His Ala Ser Ser Pro
 180 185 190
 Ile Pro Phe Asp Gly Asp Asp Thr Gly Asp Val Thr Glu Glu Glu Arg
 195 200 205
 Arg Gly Trp Asp Leu Arg Arg Pro Glu Glu Ile Ala Ala Asp Glu Val
 210 215 220
 Thr Asp Ser Thr Ser Ser Met Tyr Arg Asn Pro Gly Leu Arg Lys Ser
 225 230 235 240
 Ser Ser Arg Ile Pro Ile Ser Thr Ala Ser Pro Ala Pro Ile Ser Pro
 245 250 255
 Glu His Leu Gly Arg Glu Phe Ser Met Gln Arg Ala Pro Asp Ala His
 260 265 270
 Lys Arg Gly Gly Asn Leu Val Phe Gly Lys Pro Arg Arg Ala Ser
 275 280 285
 Glu Pro Ile Ala Gly Glu Gly Ser Asp Ser Leu Ala Thr Pro Cys Ala
 290 295 300
 Gly Ser Arg Pro Asn Ser Arg Gly Ile Gln Pro Asn Gln Ser Cys Ser
 305 310 315 320
 Ala Lys Arg Gly Pro Ala Ser Lys Gly Ser Ala Thr Arg Lys Pro Xaa
 325 330 335
 Ala Pro Pro Ser Asn Thr Arg Lys Thr Ser Arg Asn Arg Thr Val Ser
 340 345 350
 Thr Asn Ser Gln Arg Pro Thr Thr Arg Ser Gly Glu Pro Arg Pro Pro
 355 360 365
 Gln Pro Ile Asn Arg Pro Glu Gly Asp Pro Pro Trp Leu Ala Thr Met
 370 375 380
 Tyr Lys Pro Asp Pro Arg Leu Pro Pro Asp Gln Gln Ile Leu Pro Thr
 385 390 395 400
 His Ala Arg Arg Met Gln Gln Glu Gln Trp Glu Lys Glu Gly Arg Thr
 405 410 415
 Pro Thr Thr Tyr Asp Arg Glu Phe Ala Pro Leu Ala Ile Gly Pro Asp
 420 425 430
 Asp Arg Pro Gln Leu Pro Ser Lys Ala Glu Gly Thr Glu Lys Val Glu
 435 440 445
 Asn Thr Pro Glu Lys Thr Glu Glu Gln Ser Leu Ser Gln Gly Gln Ala
 450 455 460
 Glu Lys Thr Asp His Leu Leu Ala Ser Pro Lys Ser Pro Thr Ser Arg
 465 470 475 480
 Pro Ser Ser Ser Thr Gly Tyr Ser Pro Met Pro Lys Leu Gln Glu Met
 485 490 495
 Pro Ala Ala Ala Gln Val Gly Leu Thr Pro Lys Trp Asn Pro Pro Val
 500 505 510
 Val Thr Ala Gln Pro Pro Pro Pro Lys Glu Lys Gly Cys Gly Cys Cys
 515 520 525
 Ile Val Met
 530

<210> 31261

<211> 70

<212> PRT

<213> A.fumigatus

<400> 31261

Asn Gly Asn Glu Lys Arg Cys Ala Asp Val Cys Gly Asp Asp Asp Asp

12026

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1           5           10           15
Asp Val Asp Asp Gly Arg Glu Ile Gln Asn Ala Leu Tyr Glu Met Thr
           20           25           30
Gln Gln Arg Thr Val Pro Asn Ile Phe Ile Gly Gln Lys His Ile Gly
           35           40           45
Gly Asn Ser Glu Leu Gln Ala Lys Ser Ala Gln Leu Pro Ala Leu Leu
           50           55           60
Lys Glu Ala Gly Ala Leu
65           70

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<210> 31262
 <211> 61
 <212> PRT
 <213> A.fumigatus

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<400> 31262
Ala Gly Glu Tyr Ser Ile Asp Asn Arg Ser Thr Asn Ser Val Val Thr
1           5           10           15
Phe Ala Val Cys Thr Tyr Val Leu Ala Tyr Ser Gly Leu Gln Ala Glu
           20           25           30
Pro Trp Ala Ile Asn Pro Leu Val Pro Thr Ser Pro Gly Val Phe Asn
           35           40           45
Tyr Ser Asn Lys Thr Thr Gln Leu Leu Asn Leu Gln Val
           50           55           60

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<210> 31263
 <211> 74
 <212> PRT
 <213> A.fumigatus

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<400> 31263
Asn His Thr Pro Phe Arg Val Ser Ser Phe Gln Ala Leu Arg Asn Arg
1           5           10           15
Leu His Val Leu Arg His Ala Gln Lys Phe Thr Ala Val Val Gln Thr
           20           25           30
Ser Thr Val Tyr Ala Asp Leu Ser Leu Met Lys Pro Ser Ser Tyr Ile
           35           40           45
Asp Ala Gly Leu Asn Val Asp Val Leu Leu His Arg Thr Ala Arg His
           50           55           60
Gly Leu Leu Pro Pro Ser Ile Leu Glu Tyr
65           70

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<210> 31264
 <211> 77
 <212> PRT
 <213> A.fumigatus

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<400> 31264
Gln Leu Ser Asn Ile Leu Leu Ser Arg Asp Gln Lys Ala Lys Ala Ser
1           5           10           15
Phe Pro Asp Gln Trp Arg Leu Gly Ala Ala Thr Phe Arg Pro Phe Thr
           20           25           30
Val Ile Asn Arg Thr Thr Ala Gln Leu Ala Ile Ile Leu Glu Ala Gly
           35           40           45
Ile Tyr Leu Ala Pro Ser Phe Ser Ala Arg Asn Gln Thr Ser Ile Ser
           50           55           60

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Leu Ser Glu Lys His Ala Ile Ile Leu Ser Leu Arg Ser
 65 70 75

<210> 31265
 <211> 140
 <212> PRT
 <213> A.fumigatus

<400> 31265

Asn	Asp	Ala	Tyr	Leu	Ser	Phe	Leu	Arg	Lys	Ser	Trp	Ser	Asn	Thr	Arg
1				5					10					15	
Leu	Thr	Gln	Trp	Asn	Ala	Val	Ala	Leu	Trp	Ala	Trp	Asp	Ile	Val	Val
		20						25					30		
Asp	Asn	Cys	Ala	Ile	Cys	Arg	Asn	His	Ile	Met	Asp	Leu	Cys	Met	Ser
	35						40					45			
Leu	Thr	Pro	Leu	Phe	Cys	Leu	Ile	Asp	Ala	His	Leu	Leu	Gln	Thr	Gly
	50					55					60				
Ile	Glu	Cys	Gln	Ala	Asn	Gln	Gly	Ser	Ser	Thr	Thr	Glu	Glu	Cys	Thr
65					70					75				80	
Val	Ala	Trp	Gly	Ile	Cys	Asn	Val	Gly	Phe	Ala	Ser	Ala	Thr	Ala	Phe
				85					90					95	
Ser	Pro	Ser	Arg	Ala	Asn	Lys	Cys	Phe	Thr	Ser	Gln	His	Ala	Phe	His
		100						105					110		
Phe	His	Cys	Ile	Ser	Arg	Trp	Leu	Lys	Thr	Arg	Gln	Val	Cys	Pro	Leu
		115					120					125			
Asp	Asn	Arg	Asp	Trp	Glu	Phe	Gln	Lys	Tyr	Gly	Arg				
	130						135				140				

<210> 31266
 <211> 303
 <212> PRT
 <213> A.fumigatus

<220>

<221> UNSURE

<222> (84)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31266

Tyr	Arg	Leu	Leu	Gly	Ser	Ile	Thr	Val	Ile	Arg	Leu	Tyr	Pro	Ser	Leu
1				5					10					15	
Leu	Leu	Phe	Leu	Ser	Val	Thr	Ser	Leu	Phe	Ile	Asp	Gln	Phe	His	Phe
		20						25				30			
Lys	Phe	Phe	His	Glu	Ser	Ser	Lys	Ala	Ala	Tyr	Leu	Leu	Ser	His	Leu
	35						40					45			
Ile	Ala	Met	Ser	Ser	Ile	Ser	Pro	Thr	Pro	Pro	Thr	Pro	Ser	Asn	Gln
	50					55					60				
Arg	Ser	Asn	Arg	Arg	Asn	Pro	Lys	Lys	Thr	Thr	Thr	Pro	Ser	Asn	Gln
65					70				75					80	
Lys	Met	Ala	Xaa	Leu	Thr	Thr	Pro	Pro	Ser	Ser	Pro	Pro	Gly	Asn	Ser
			85					90					95		
Ser	Pro	Gly	Glu	Ile	Val	Thr	Asp	Thr	Ser	Ile	Asn	Leu	His	Asn	Pro
		100					105					110			
Ser	Lys	Arg	Lys	Asn	Pro	Arg	Ser	Asn	Lys	Lys	Pro	Arg	Asp	Ala	Pro
		115					120					125			
Lys	Ser	Ser	Pro	Ala	Asn	Asn	Asn	Gly	His	Arg	His	Thr	Ser	Ser	His

12028

130		135		140
Pro Ala Gly Ser Thr	Pro Gln Val Lys Asp Ser	Pro His Tyr Ala Gly		
145	150	155	160	
Pro Thr Phe His Ala Ser	Pro Ala Pro Ser Ala Leu Pro Ile Pro Ser			
	165	170	175	
Phe Phe Ser Lys Ser Val	Pro Glu Ser Asp Pro Ala Glu Glu Ile Asp			
	180	185	190	
Gly Asp His Leu Glu Ala Gly	Leu Asp Leu Asp Thr Thr Pro Ser Lys			
	195	200	205	
Pro Arg Pro Arg Phe Gln Thr	Gln Ser Glu Lys Ser His Ser Thr Pro			
	210	215	220	
Leu Asp Phe Leu Phe Lys Ala Ala Val	Glu Ala Arg Asn Ser Gln Leu			
225	230	235	240	
Gln Arg Ser Pro Glu Ala Asn Ile Gly	Thr Arg Ser Pro Gln Thr Asp			
	245	250	255	
Leu Lys Val Gln Arg His Gln Met	Pro Asn Cys Lys Asn Gly Ala Phe			
	260	265	270	
Ala Gly Ile Phe Pro Val Arg Asp	Gly Lys Phe Arg Pro Thr Glu Leu			
	275	280	285	
Cys Leu His Pro Gln Gly Pro Glu Gly	Pro Ala Leu Cys Val Tyr			
	290	295	300	

<210> 31267
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 31267
Pro His Leu Met Phe Ala Trp Ala Leu Leu Val Ile Ala Asp Pro His
1 5 10 15
Leu Lys Phe Pro Asn Ser Leu Gln Pro Thr Ser Ala Arg Pro Ser Gln
20 25 30
Gly Ser Phe Arg Pro Leu Ala Ser Leu Leu Gln Leu Gln Met Ser Lys
35 40 45
Ala Thr Asn Met Arg Leu Cys Pro Val Ser Ile Leu Ser Leu Arg Ser
50 55 60
Pro Ile
65

<210> 31268
 <211> 71
 <212> PRT
 <213> A.fumigatus

<400> 31268
His Tyr Phe Leu Lys Thr Pro Ser Gln Tyr Asn Arg Ala Leu Ile Asn
1 5 10 15
Thr Lys Leu Ser Thr Glu Gln Glu Val Ala Leu Ile Lys Tyr Ile Asn
20 25 30
Ile Leu Ile Lys Leu Asp Ile Pro Leu Gln Leu Lys Ala Ile Ser Asn
35 40 45
Ile Val Asn Leu Ile Leu Phe His Arg His Thr Asn Leu Ile Thr Pro
50 55 60
Pro Pro Leu Ile Ser Met His
65 70

<210> 31269
 <211> 418
 <212> PRT
 <213> A.fumigatus

<400> 31269

Glu	Asp	Val	Gln	Arg	Asp	Leu	Val	Leu	Leu	Lys	Ala	Arg	Arg	Pro	Val
1				5				10						15	
Tyr	Asp	Gln	Asn	Pro	Pro	Ser	Leu	Glu	Tyr	Asn	Leu	Thr	Leu	Cys	Asp
		20					25					30			
Ser	Gly	Tyr	Ile	Asp	Trp	Ala	Arg	Val	Leu	Ser	Pro	Pro	Glu	Asp	Phe
	35					40					45				
Leu	Ser	Thr	Ala	Arg	Asp	Cys	Leu	Leu	Asn	Gly	Arg	Ala	Ser	Asn	Val
	50				55					60					
Pro	Thr	Thr	Val	Arg	Thr	Thr	Gly	Ser	Glu	Gln	Thr	Gln	Val	Thr	Gly
65				70					75					80	
Ala	Val	Asn	His	Glu	Thr	Pro	Gln	Ser	Phe	Asn	Gln	Pro	Glu	Glu	Thr
			85					90					95		
Asn	Ala	Gly	Arg	Ala	Tyr	Lys	Asp	Ser	Thr	Val	Ser	Phe	Arg	Ser	Asp
	100						105					110			
Gly	Asp	Ser	Val	Ala	Ile	Ala	Thr	Pro	Val	Ser	Ser	Asn	Asn	Gly	Gln
	115						120					125			
Ser	Ser	Arg	Val	Ser	Ile	Val	Gln	Ala	Ala	His	Thr	Ala	Thr	Glu	Thr
	130				135						140				
Asp	Gln	Arg	Phe	Glu	Pro	Ser	Arg	Leu	Arg	Ser	Ser	Gln	Gln	Gly	Lys
145				150					155					160	
Pro	Gln	His	Val	Lys	Ser	Asn	Ser	Glu	Leu	Ala	Asp	Asp	Lys	Ala	Gln
			165					170					175		
Ala	Gly	Lys	Gln	Asn	Gln	Asp	Asp	Ala	Leu	Val	Asp	Val	Ser	Thr	Pro
	180						185					190			
Pro	Ser	Gly	Ser	Thr	Thr	Ile	Val	Arg	Thr	Lys	Asp	Leu	Tyr	Tyr	Asp
	195					200						205			
Asn	Val	Gln	Thr	Glu	Gly	Lys	Thr	Gly	Ile	Leu	Leu	Asp	Phe	Asn	Ser
210					215					220					
Thr	Pro	Pro	Arg	Lys	Ser	Leu	Pro	Gly	Ala	Glu	Asn	Ser	Leu	Ser	Met
225				230					235					240	
Ser	Pro	Ala	Leu	Gln	Asp	Leu	Glu	Gly	Ile	Asn	Phe	Gln	Val	Asn	Val
			245					250					255		
Ala	Gln	Ser	Ile	Leu	Leu	Arg	Pro	Glu	Gln	Arg	Pro	Glu	Thr	Gln	Ile
	260						265					270			
Tyr	Ser	Phe	Ile	Glu	Ala	Asp	Pro	Val	Asp	Leu	Lys	Asp	Phe	Ser	Ser
	275					280						285			
Pro	Arg	Ile	Val	Glu	Ser	Asn	Gly	Asp	Thr	Met	Thr	Pro	Thr	Pro	Asp
	290					295					300				
Ser	Thr	Pro	Ser	Asp	Leu	Ala	Ala	Leu	Arg	Glu	Lys	Leu	Ala	Arg	Leu
305				310					315					320	
Cys	Lys	Phe	Val	Glu	Glu	Thr	Leu	Arg	His	His	Val	Pro	Glu	Pro	Leu
			325					330					335		
Arg	Asp	Met	Asp	Leu	Gln	Ala	Leu	Arg	Lys	Tyr	Glu	Gln	Glu	Leu	Thr
	340						345					350			
Glu	Ile	Leu	Ser	Leu	His	Gln	Gly	Thr	Met	His	Glu	Thr	Ala	Ser	Gln
	355					360					365				
Thr	Ala	Arg	Lys	Arg	Gln	Glu	Phe	Leu	Ser	Ser	Arg	Lys	Ser	Gln	Glu
	370				375					380					
Lys	Lys	Ala	Glu	Thr	Ala	Val	Glu	Arg	Lys	Ser	Pro	Lys	Ile	Ser	Ser
385					390				395					400	

12030

Pro Thr Pro Ser Val Cys Ser Pro Pro Val Arg Ala Pro Leu Glu Glu
 405 410 415
 Gly Asn

<210> 31270

<211> 210

<212> PRT

<213> A.fumigatus

<400> 31270

Gly Tyr Asp Val Gly Lys Thr Leu Val Ser Arg Phe Ser Asn Val Arg
 1 5 10 15
 Met Glu Asn Asn Thr Pro Gln Tyr Thr Ile Ala Gln Ile Ser Ala Ala
 20 25 30
 Gly Phe Phe Ser Ala Ile Pro Met Thr Leu Ile Thr Ala Pro Phe Glu
 35 40 45
 Arg Val Lys Val Leu Leu Gln Ile Gln Gly Gln Asn Pro Pro Pro Pro
 50 55 60
 Gly Gln Lys Pro Lys Tyr Ser Gly Gly Leu Asp Val Val Arg Gln Leu
 65 70 75 80
 Tyr Lys Glu Gly Gly Ile Arg Ser Val Phe Arg Gly Ser Ala Met Thr
 85 90 95
 Leu Ala Arg Asp Gly Pro Gly Ser Ala Ala Tyr Phe Ala Ala Tyr Glu
 100 105 110
 Tyr Ile Lys Arg Ser Leu Thr Pro Lys Asp Glu His Gly Asn Val Thr
 115 120 125
 Gly Ala Leu Ser Met Pro Ala Val Leu Ala Ala Gly Gly Ala Ala Gly
 130 135 140
 Ile Ala Met Trp Ile Pro Val Phe Pro Val Asp Thr Ile Lys Ser Arg
 145 150 155 160
 Leu Gln Ser Ala Pro Gly Lys Pro Thr Ile Gly Gly Thr Ile Arg Ser
 165 170 175
 Val Tyr Ala Ser Gly Gly Phe Lys Ala Phe Phe Pro Gly Phe Gly Pro
 180 185 190
 Ala Leu Ala Arg Ala Val Pro Val Phe Thr Thr Gly Leu Glu Arg Ala
 195 200 205
 Ala Pro
 210

<210> 31271

<211> 113

<212> PRT

<213> A.fumigatus

<400> 31271

Ala Tyr Pro Ser Asn Thr Gly Ala Thr Thr Thr Asp Thr Thr Leu Thr
 1 5 10 15
 Thr Thr Thr Thr Ser Phe Glu Asn Gly Ser Ser Thr Gly Asn Ser Ser
 20 25 30
 Ser Glu Thr Gly Ala Gly Ser Gly Ser Ser Thr Ala Thr Gly Ser Gly
 35 40 45
 Ser Gly Ser Gly Ala Gly Ser Ala Ser Thr Thr Ala Pro Asn Ser Ser
 50 55 60
 Ser Thr Gly Asn Val Ala Pro Trp Arg Arg Cys Arg Trp Phe Arg Cys
 65 70 75 80

12031

Arg Trp Ser Pro Gly Pro Arg Cys Leu Asp Tyr Pro Leu Asp Phe Ser
 85 90 95
 Lys Ile Thr Leu Met Gly Ile Gly Ser Leu Met Ser Val Tyr Val Leu
 100 105 110
 Cys

<210> 31272
 <211> 161
 <212> PRT
 <213> A.fumigatus

<400> 31272
 Asn Ile Phe Leu Ile Lys Phe Leu Leu Thr Ser Ala Leu Phe Leu Arg
 1 5 10 15
 Phe Leu His Phe Ala Thr Val Ser Arg Pro Pro Ser Ser His Pro Ser
 20 25 30
 Leu Cys Ser Arg Asp His Leu Thr Pro Trp Pro Leu Cys Ala Ile Thr
 35 40 45
 Tyr Leu Pro Pro Leu Pro His Tyr Glu Leu Ser Arg Phe Phe Pro Ala
 50 55 60
 Ser Pro Cys Thr His Ser Thr Met Ser Thr Pro Gly Ser Ser Thr Pro
 65 70 75 80
 Glu Asn Leu Ser Asp Glu Leu Lys Ala Ile Glu Thr Lys Ala Val Asn
 85 90 95
 Gln Thr Ile Ala Gln Ile Arg Ser Leu Ala Ala Gly Ala Ala Gly Gly
 100 105 110
 Ile Cys Ala Val Val Val Gly His Pro Phe Asp Leu Val Lys Val Arg
 115 120 125
 Leu Gln Thr Ala Glu Lys Gly Val Tyr Ser Gly Ala Ile Asp Val Val
 130 135 140
 Lys Lys Thr Ile Ala Arg Glu Gly Leu Ala Arg Val Ser Cys Ala Val
 145 150 155 160
 Ser

<210> 31273
 <211> 400
 <212> PRT
 <213> A.fumigatus

<400> 31273
 Thr Glu Arg Thr Gly Arg Pro Trp Glu Asp Leu Arg Lys Arg Glu Glu
 1 5 10 15
 Ala Ala Ser Gln Lys Val Lys Glu Met Glu Gln Ala Phe Ala Lys Leu
 20 25 30
 Glu Lys Glu Lys Gln Gln Met Lys Thr Glu Ile Glu Asn Thr Val Arg
 35 40 45
 Arg Glu Trp Glu Val Lys Ala Arg Leu Glu Ile Asp Arg Gln Val Gln
 50 55 60
 Asn Glu Leu Asp Arg Leu Arg Lys Arg Phe Glu Phe Glu Val Gln Glu
 65 70 75 80
 Arg Val Asn Ile Glu Val Glu Lys Gln Lys Arg Asn Asn Thr Ser Arg
 85 90 95
 Asp Asp Thr Val Leu Pro Thr Gly Ser Ser Gln Ser Ser Val Asn Ser
 100 105 110

Gly Asp Asp Thr Gly Phe Pro Ser Asn Thr Asp Leu Ser Gln Leu Ser
 115 120 125
 Ile Glu Ser Pro Thr Ala Asn Ala Asn Lys Gln Pro Lys Lys Glu Ser
 130 135 140
 Arg Thr Pro Phe Ser Arg Ser Lys Thr Met Val Glu Ser Pro Val Asp
 145 150 155 160
 Val Gln Met Ala Glu Pro Ser Pro Ile Ser Ile Ala Ser Leu Ser Leu
 165 170 175
 Ser Pro Arg Arg Thr Ser Val Ala Ser Arg Asn Ile Phe Ala Glu Ala
 180 185 190
 Asp Lys Pro Arg Ala Lys Trp Glu Pro Thr Leu Thr Tyr Ser Asp Asp
 195 200 205
 Glu His Asp Ile Pro Asp Leu Pro Ser Pro Thr Arg Gln Lys Val Lys
 210 215 220
 His Asp Pro Pro Lys Gly Pro Ala Arg Pro Leu Leu Arg Gln Asn Thr
 225 230 235 240
 Thr Ala Phe Met Gln Lys Leu Ser Ser Gln Pro Pro Leu Phe Pro Ser
 245 250 255
 Asn Ser Ser Arg Leu Pro Gln Met Pro Gly Gly Pro Ser Glu Thr Arg
 260 265 270
 His Gly Glu Lys Ser Arg Ser Pro His Arg Arg Leu Ser Lys Ile Pro
 275 280 285
 Ser Ser Ala Asn Leu Ala Ala Asp Ala Gly Ser Pro Thr Arg Lys Ser
 290 295 300
 Ala Thr Lys Gln Leu Pro Ser Lys Ala Asn Gly Gly Gly Glu Glu Met
 305 310 315 320
 Phe Lys Ala Val Met Gln Arg Asn Met Gly Gly Arg Thr Leu Val Glu
 325 330 335
 Leu Ala Gln Ala Arg Ala Gly Gly Arg Pro Met Asp Glu Val Lys Arg
 340 345 350
 Cys Ala Ser Asp Ser Arg Ala Ser Gly Cys Ser Ser Asn Leu Lys Ser
 355 360 365
 Ser Asp Arg Glu Pro Pro Ala Val Trp Asp Pro Glu Lys Asp Glu Met
 370 375 380
 Pro Ser Pro Phe Leu Ala Arg Gly Arg Lys Val Ile Arg Asn Phe Arg
 385 390 395 400

<210> 31274

<211> 193

<212> PRT

<213> A.fumigatus

<400> 31274

Ile Gly Pro Pro Leu Ser Phe Gln Pro Arg Val Lys Thr Val Ala Ile
 1 5 10 15
 Gly Pro Leu Leu His Phe Asp Ala Asn Trp Trp Leu Ile Ile Gly Thr
 20 25 30
 Tyr Ala Gly Leu Val Gly Met Asn Asp Gly Cys Val Leu Arg Asn Leu
 35 40 45
 Gln Ala Arg Leu Arg Gly Phe Ala Asp Leu Glu Phe Glu Lys Val Ala
 50 55 60
 Val Glu Asp Asp Lys Leu Phe Glu Ser Val Cys Gln Ala Met Pro Ile
 65 70 75 80
 Lys Glu Ala Ala Glu Lys Pro Gly Leu Thr Gln Arg Val Ser Asp Ala
 85 90 95
 Met Asn Arg Val Cys Ala His Glu Ile Thr Val Val Ala Gly Phe Leu

12033

[illegible]

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<210> 31275
<211> 308
<212> PRT
<213> A.fumigatus
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<400>	31275															
Ala	Ala	Tyr	Gly	Leu	Ala	Val	Val	Gly	Ser	Thr	Ala	Ser	His	Thr	Gly	
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Val	Ala	Gly	Thr	Thr	Leu	Gly	Gly	Gly	Phe	Gly	Trp	Leu	Thr	Gly	Arg	
			20					25					30			
Tyr	Gly	Leu	Ile	Ser	Asp	Asn	Leu	Leu	Ser	Val	Arg	Met	Val	Leu	Ala	
		35				40						45				
Asp	Gly	Thr	Ile	Val	Glu	Ala	Ser	Asp	Glu	Asp	His	Gln	Asp	Leu	Phe	
	50					55					60					
Trp	Ala	Val	Arg	Gly	Ala	Gly	Gln	Ala	Phe	Gly	Ile	Val	Thr	Glu	Leu	
65					70					75					80	
Val	Phe	Arg	Ala	His	Glu	Leu	Ala	Gly	Pro	Val	Tyr	Gly	Gly	Thr	Leu	
				85					90					95		
Val	Phe	Thr	Val	Asp	Arg	Leu	Pro	Gly	Ile	Leu	Glu	Phe	Ala	Ser	Arg	
			100					105					110			
Phe	Asp	Lys	Leu	Gln	Asp	Glu	Asn	Ser	Gly	Phe	Phe	Phe	Gly	Leu	Ala	
		115					120					125				
Ala	Pro	Ser	Ala	Ala	Asp	Arg	Thr	Gly	Ile	Leu	Val	Leu	Pro	Phe	Tyr	
	130					135						140				
Asn	Gly	Ser	Gln	Glu	Lys	Ala	Glu	Glu	Phe	Phe	Ala	Pro	Leu	Met	Ser	
145					150					155					160	
Leu	Gly	Pro	Ser	Ile	Asn	Lys	Thr	Ser	Met	Met	Ser	Tyr	Lys	Glu	Leu	
				165					170					175		
Asn	Gly	Ile	Ala	Asn	Val	Asp	Pro	Val	Pro	Glu	Gly	Arg	Lys	Cys	Phe	
			180					185					190			
Ser	Gly	Thr	Lys	Val	Ser	Met	Pro	Leu	Asp	Gln	His	Leu	Leu	Cys	Asp	
		195					200					205				
Leu	Trp	Glu	His	Phe	Asp	Ala	Ile	Met	Asp	Lys	Tyr	Pro	Arg	Ser	Asn	
	210					215						220				
Asn	Ser	Val	Leu	Met	Phe	Glu	Leu	Ile	Pro	Tyr	Glu	Lys	Thr	Ile	Ser	
225					230					235					240	
Val	Pro	Ile	Asp	Ala	Thr	Ala	Cys	Ala	Asp	Arg	Gly	Arg	Tyr	Tyr	Asn	
				245					250					255		
Val	Ala	Leu	Leu	Leu	Cys	Trp	Tyr	Asp	Pro	Glu	His	Asp	Ala	Ala	Met	
		260						265					270			
His	Thr	Tyr	Met	Arg	Ala	Leu	Leu	Thr	Gln	Ile	Lys	Arg	Ser	Asp	Cys	
		275					280					285				

Tyr Ala Gly Lys Lys Glu Pro Leu Val Gln Ala Asn Ala Asn Phe Ala
 290 295 300
 Gly Gly Ser Thr
 305

<210> 31276
 <211> 111
 <212> PRT
 <213> A.fumigatus

<400> 31276
 Leu Pro Ile Asp Cys Phe Leu Ala Asp His Ile Gly Gly His Ile His
 1 5 10 15
 Ser Ser Thr Trp Val Pro Ser Ser Ser Leu Asp Tyr Arg Met Pro Glu
 20 25 30
 Leu Val Arg Thr Leu Lys Asp Lys Glu Lys Val Val Phe His Cys Ala
 35 40 45
 Leu Ser Gln Gln Arg Gly Pro Ala Ala Ala Leu Arg Tyr Ala Arg Glu
 50 55 60
 Arg Glu Ala Ala Leu Gly Pro Glu Glu Ser Lys Lys Gln Gln Val Tyr
 65 70 75 80
 Val Leu Glu Gly Gly Phe Val His Trp Gln Glu Lys Tyr Gly Lys Asp
 85 90 95
 Thr Arg Leu Thr Glu Ala Tyr Val Glu Asp Ile Trp Arg Glu Tyr
 100 105 110

<210> 31277
 <211> 235
 <212> PRT
 <213> A.fumigatus

<400> 31277
 Arg Leu Tyr Ser Ile Pro His Gln Thr Cys His Gln Phe Leu His Ile
 1 5 10 15
 Ala Lys Met Glu Ala Arg Ser Leu Ala Arg Cys Leu Arg Leu Arg Pro
 20 25 30
 Thr Thr Ser Leu Tyr Thr Arg Gln Pro Ile Ile Phe Arg Gly Gln Asp
 35 40 45
 Ala Leu Arg Tyr Phe Ser Thr Ser Asn Ser Leu Leu Gln Thr Pro Pro
 50 55 60
 Ala Ser Gln Asp Gln Pro Ser Ser Thr Thr Pro Ala Ser Pro Gln Asp
 65 70 75 80
 Gln Ser Lys Val Gln Thr Ser Ser Ser Asn Ser Thr Ala Ser Asn Ser
 85 90 95
 Asp Ser Ala Asp Phe Asp Arg Ile Leu Asp Gln Leu Asn Phe Asn Asn
 100 105 110
 Ala Asn Arg Asn Ala Thr Glu Asp Ser Gln Ser Ser Asp Ser Leu Ser
 115 120 125
 Leu Ser Arg Ser Val Ser Met Ala Ala Gly Thr Glu Ser Tyr Lys Gln
 130 135 140
 Pro Leu Arg Arg Val Glu Leu Lys Leu Gly Pro Thr Leu Gly Arg Gln
 145 150 155 160
 Val His Val Glu Pro Glu Lys Gly Leu Asp Leu Thr Thr Ala Leu Arg
 165 170 175
 Val Leu Gln Gly Asn Val Thr Thr Asn Lys Val Arg Ala Gln Trp Tyr
 180 185 190

12035

Ala Gln Lys Phe His Val Arg Arg Gly Gln Met Arg Lys Asn Leu Arg
 195 200 205
 Met Glu Arg Trp Arg Lys Leu Phe Lys Phe Ser Phe Lys Gln Thr Val
 210 215 220
 Asn Lys Ile Gln Arg Met Arg Ala Gln Gly Trp
 225 230 235

<210> 31278
 <211> 139
 <212> PRT
 <213> A.fumigatus

<400> 31278
 Arg Ser Cys His Ser Ser Leu Ser Ile Ser Leu Leu Val Glu Tyr Ile
 1 5 10 15
 Arg His Ile Glu Ser Asn Ser Ile Ser Pro Leu Ser Leu Arg Gln Ser
 20 25 30
 Ala Ser Ser Ala Thr Ala Gln Leu Pro Ala Pro Ile Leu Glu Phe Pro
 35 40 45
 Arg His Thr Val Asp Asp Gly Pro Ser Ser Lys Arg Arg Arg Leu Val
 50 55 60
 Ser Ser Ser Thr Ala Gly Ser Pro Ser Leu Arg Thr Tyr Ser Ser Thr
 65 70 75 80
 Phe Pro Arg Leu Met Pro Ser Ser Ser Ser Ser Ala Ala Ser Ser Ala
 85 90 95
 Ser Ser Thr Pro Ala Ala Pro His Ala Ser Phe Ser Ile Pro Gly Pro
 100 105 110
 Thr Asp Ala Gly Pro Arg Ser His Ala Ser Ser Glu Thr Leu Arg Thr
 115 120 125
 Ser Ser Ala Gly Ala Ala Phe Asp Lys Arg Ser
 130 135

<210> 31279
 <211> 63
 <212> PRT
 <213> A.fumigatus

<400> 31279
 Arg Thr Val Ile Gln Thr Ala Glu Thr Gly Leu Leu Phe Asn Cys Arg
 1 5 10 15
 Glu Ser Lys Leu Glu Asp Leu Phe Leu His Ile Ser Lys Ala His Ala
 20 25 30
 Ile Val Val Val Glu Cys Arg Phe Leu Arg Phe Leu Tyr Thr Arg Ser
 35 40 45
 Ser Thr Arg Phe Ile Leu His Pro Trp Ser His Arg Arg Trp Pro
 50 55 60

<210> 31280
 <211> 189
 <212> PRT
 <213> A.fumigatus

<400> 31280
 Gly Thr Leu Pro Glu Phe Leu Pro Ile Asn Ile Gln Ser Met Ser Pro
 1 5 10 15
 Val Ala Leu Arg Met Ser Ser Lys Ala Leu Leu Pro Leu Ser Pro Leu

	20		25		30
Leu Arg Leu Ser Thr Ala Ser Pro Ala Leu Ala Arg Pro Cys Ser Pro					
35			40		45
Ser Pro Arg Thr Ser Ala Thr Leu Ala Pro Pro Thr Arg Gln Ala Pro					
50			55		60
Pro Pro Ser Ser Leu Ser Ser Ser Ser Phe Ser Pro Ser Phe Ser Pro					
65			70		75
Gln Gln Ala Asn Leu Ser Ser Pro Ser Ser Ser Arg Val Arg Ser Ser					
85			90		95
Val Ser Ser Ala Ser Thr Arg Ala Ala Leu Leu Ser Arg His Phe Ser					
100			105		110
Ser Tyr Thr Pro Pro Gln Ser Pro Asn Met Ser Tyr Thr Val Arg Lys					
115			120		125
Ile Gly Gln Ala Asn Thr Leu Glu His Arg Val Tyr Ile Glu Lys Asp					
130			135		140
Gly Val Pro Ile Ser Pro Phe His Asp Ile Pro Leu Tyr Ala Asn Pro					
145			150		155
Glu Gln Thr Ile Leu Asn Met Val Val Glu Ile Pro Arg Trp Thr Asn					
165			170		175
Ala Lys Gln Glu Val Arg Asn Ser Asp Pro Arg Asp Thr					
180			185		

<210> 31281

<211> 63

<212> PRT

<213> A.fumigatus

<400> 31281

Ile Ser Lys Glu Glu Phe Leu Asn Pro Ile Lys Gln Asp Val Lys Lys					
1	5		10		15
Gly Lys Leu Arg Phe Val Arg Asn Cys Phe Pro His Lys Gly Tyr Leu					
20			25		30
Trp Asn Tyr Gly Ala Phe Pro Gln Val Ser Gln Leu His Glu His Gly					
35			40		45
Ala Arg Pro Gly Gln Ser Met Leu Thr Arg Asp Phe Ser Met Val					
50			55		60

<210> 31282

<211> 163

<212> PRT

<213> A.fumigatus

<400> 31282

Thr Trp Glu Asp Pro Asn Val Val His Pro Glu Thr Lys Ala Lys Gly					
1	5		10		15
Asp Asn Asp Pro Leu Asp Val Cys Glu Ile Gly Glu Leu Val Gly Tyr					
20			25		30
Pro Gly Gln Val Lys Gln Val Lys Val Leu Gly Val Met Ala Leu Leu					
35			40		45
Asp Glu Glu Glu Thr Asp Trp Lys Val Ile Val Ile Asp Ile Asn Asp					
50			55		60
Pro Leu Ala Pro Lys Leu Asn Asp Ile Glu Asp Val Glu Arg His Leu					
65			70		75
Pro Gly Leu Leu Arg Ala Thr Asn Glu Trp Phe Arg Ile Tyr Lys Ile					
85			90		95
Pro Asp Gly Lys Pro Glu Asn Gln Phe Ala Phe Ser Gly Glu Cys Lys					

12037

100	105	110
Asn Lys Lys Trp Val Pro Ser Tyr Cys Val Trp Tyr His Leu Ser Met		
115	120	125
Leu Thr Phe Leu Ile Ser Arg Tyr Ala Leu Asp Val Ile Arg Glu Cys		
130	135	140
Ala Asp Ala Trp Glu Lys Leu Ile Thr Gly Lys Ser Pro Arg Gly Asp		
145	150	155
Ile Ser Leu		160

<210> 31283
 <211> 98
 <212> PRT
 <213> A.fumigatus

<400> 31283

Tyr Thr Ile Asn Val Pro Gly Gly Ser Ala His Glu Gln Gln Ser Thr		
1	5	10
Thr Ala Pro Val Ser Ile Ala Pro Thr Val His Arg Leu Thr Gly Pro		15
20	25	30
Arg Pro Pro Leu Phe Ala Gln Ser Ser His Ile Ser Asn Ala Gly Ser		
35	40	45
Pro His Ser Thr Ser Pro Ser Ser Leu Leu Pro Leu Val Leu Leu Leu		
50	55	60
Leu Ser Phe Leu Leu Pro Ser Thr Ser Lys Phe Val Phe Ala Ile Ile		
65	70	75
Val Lys Ser Ser Phe Val Cys Gln Leu Arg Val Asn Ser Cys Cys Ser		
85	90	95

Ser Phe

<210> 31284
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 31284

Ser Glu Leu Thr Thr Phe Val Tyr Ile Ser Ile Glu Gln Asp Ile Phe		
1	5	10
Phe Phe Ser Ala Arg Gln Ala Ser Phe Tyr Gly Ser Ser Gln Gln Tyr		15
20	25	30
Leu Ser Ser Lys Glu Arg Gly Phe Arg Ala Thr Cys Ile Ile Ser Phe		
35	40	45
Arg Gln Phe Leu Leu Asp Gln Thr Asn Arg Ile Ser Thr Glu Tyr Glu		
50	55	60
Gln Met Arg Glu Tyr Ala Lys Pro Leu Glu Gln Phe Phe		
65	70	75

<210> 31285
 <211> 136
 <212> PRT
 <213> A.fumigatus

<400> 31285

His Arg Lys Met Ile Pro Asp Ala Val Arg Arg Asn Pro Leu Leu Val		
1	5	10
		15

12038

Leu Ala Leu Ala Arg Glu Gly Lys Leu Val Leu Arg Leu Ser Val Gly
 20 25 30
 Asp Leu Val Asp Thr Glu Pro Phe Val Gly Ser Thr Glu Lys Ala Arg
 35 40 45
 Lys Val Thr Leu Asn Ile Leu Asn Val Val Glu Leu Arg Gly Lys Arg
 50 55 60
 Val Val Asp Ile Asn Asp Asp Asp Leu Pro Val Gly Leu Leu Leu Ile
 65 70 75 80
 Glu Gln Ser His His Thr Lys Asn Leu Asp Leu Leu Asp Leu Thr Gly
 85 90 95
 Ile Ala Asn Lys Leu Thr Asp Phe Thr Asp Ile Glu Arg Val Val Val
 100 105 110
 Thr Leu Gly Leu Gly Leu Gly Val Asp Asn Val Gly Val Phe Pro Gly
 115 120 125
 Leu Asn His Arg Glu Ile Ser Gly
 130 135

<210> 31286

<211> 80

<212> PRT

<213> A.fumigatus

<400> 31286

Leu Phe Arg Pro Leu Pro Pro Ile His Tyr Pro Ala Met Ala Gln Ile
 1 5 10 15
 Arg Gly Thr Ala Gly Tyr Asn Leu Gly His Gln Asn Pro Phe Val Gly
 20 25 30
 Pro Gly Arg Ala Asp Ala Thr Ser Asp Pro Ser Pro Leu Asp Ala Ile
 35 40 45
 Arg Glu Gln Thr Ser Lys Ile Glu Asp Trp Leu Asp Thr Ile Ser Asp
 50 55 60
 Pro Val Lys Pro Tyr Val Val Gln Phe His Leu Val Arg Glu Lys Gly
 65 70 75 80

<210> 31287

<211> 241

<212> PRT

<213> A.fumigatus

<400> 31287

Leu Leu Ala Ile Phe Leu Leu Leu Ala Val Ser Leu Leu Trp Ser Pro
 1 5 10 15
 Ser Ser Arg Thr Ala Tyr Val Leu Ser His Asn Gly Ala Ile Ser Ser
 20 25 30
 Tyr Thr Ser Val Asn Thr Gly Lys Val Ser Val Pro Asp Ser Pro Phe
 35 40 45
 Gln Tyr Ser Ser Ala Thr Asp Leu Ser His Asp Ile Leu Cys Pro Val
 50 55 60
 Pro Trp Gly Ile Thr His Thr Phe Leu Ile Leu Asn Val Ile Ala Met
 65 70 75 80
 Ser Val Cys Ser Phe Leu Val Ile Thr Arg Arg His Thr Glu Ile Ala
 85 90 95
 Val Ala Gly Leu Leu Gly Val Val Val Thr Gln Gly Leu Gly Tyr Gly
 100 105 110
 Leu Ile Phe Asp Leu Asn Phe Phe Leu Arg Asn Leu Ser Val Val Gly
 115 120 125

12039

Gly Leu Leu Met Val Leu Ser Asp Ser Trp Val Arg Lys Lys Phe Val
 130 135 140
 Pro Ala Gly Leu Pro Gln Leu Asp Glu Lys Asp Arg Lys Met Tyr Val
 145 150 155 160
 Gln Phe Ala Gly Arg Val Leu Leu Ile Phe Leu Phe Val Gly Phe Val
 165 170 175
 Phe Ser Gly Gln Trp Ser Leu Trp Arg Val Leu Val Ser Leu Phe Gly
 180 185 190
 Phe Val Ala Cys Val Met Val Ile Val Gly Phe Lys Ala Lys Trp Ser
 195 200 205
 Ala Ile Ile Leu Val Val Leu Leu Ser Val Phe Asn Val Leu Val Asn
 210 215 220
 Asn Phe Trp Thr Val Arg Ser Phe Pro Tyr Ala Thr Asp Lys Ala Arg
 225 230 235 240
 Asn

<210> 31288

<211> 68

<212> PRT

<213> A.fumigatus

<400> 31288

Leu Ser Leu Ser Ala Ala Pro Pro Pro Pro Pro Gln Gly Leu Cys Gln
 1 5 10 15
 Val Arg Leu Phe Pro Asp Ser Ile His Cys Val Gly Phe Cys Phe Pro
 20 25 30
 Tyr Pro His Lys Tyr Ser Cys Pro Asn His Tyr Asn Ser Gly Gly Leu
 35 40 45
 Leu Leu Leu Val Asn Met Gly Pro Gly Gln Leu Ser Met Asp Glu Lys
 50 55 60
 Lys Lys Val Tyr
 65

<210> 31289

<211> 628

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (38), (56)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31289

Ala Ser Thr Met Trp Val Cys Ser Arg Met Pro Trp Val Gly Tyr Asp
 1 5 10 15
 Glu Leu Pro Cys Gly Val Asn Lys Ala Ile His Glu Gln Leu Gln Gly
 20 25 30
 Thr Gly Asp Gln His Xaa Gly Ala Phe Leu Thr Ala Ser Lys Asp Trp
 35 40 45
 Arg Glu Lys Ala Met Ala Ala Xaa Gln Glu Ala Gly Ser Val Pro Ser
 50 55 60
 Asn Glu Asp Asp Ala Val Lys Ser Val Ala Val Gly Glu Ile Asp Pro
 65 70 75 80
 Glu Asp Phe Pro Leu Asp Ser Asn Arg Lys Pro Tyr Arg Glu Met Ile

85										90					95				
Leu	Ala	Ser	Asp	Ile	Ser	Ile	Phe	Asp	Phe	Arg	Thr	Tyr	Val	Phe	Ser				
			100					105					110						
Arg	Gln	Leu	Thr	Leu	Leu	Leu	Arg	Ala	Ala	Arg	Ala	Pro	Ser	Leu	Val				
		115					120					125							
Ala	Thr	Glu	Thr	Gly	Ala	Ser	Gln	Asn	Gly	Lys	Gly	Asp	Lys	Lys	Pro				
		130				135					140								
Glu	Asp	Leu	Met	Leu	Leu	Ser	Glu	Leu	Cys	Glu	Arg	Ala	Ala	Asp	Phe				
145					150				155					160					
Ile	Thr	Leu	Ala	Ala	Arg	Thr	Leu	Arg	Ala	Asp	Leu	Asp	Ser	Gly	Leu				
			165					170						175					
Ala	Asp	Val	Asp	His	Pro	Ser	Lys	Thr	His	Leu	Ile	Asn	Asn	Leu	Val				
		180						185					190						
Ser	Ser	Trp	Ala	Tyr	Ala	Ala	Ala	Ser	Gln	Val	Leu	Val	Gln	Thr	Tyr				
		195					200					205							
Thr	Pro	Lys	Leu	Thr	Leu	Pro	Glu	Ser	Ser	Leu	His	Ala	Met	Ser	Lys				
		210				215					220								
Ala	Val	Ala	Ala	Thr	Thr	Pro	Glu	Pro	Lys	Pro	Glu	Val	Pro	Arg	Arg				
225					230					235				240					
Ser	Ser	Ser	Leu	Met	Ser	Pro	Val	Thr	Thr	Arg	Pro	Gly	Arg	Ser	Asn				
			245					250					255						
Ser	His	Gly	Ile	Pro	Leu	Pro	Asp	Thr	Leu	Ala	Asn	Ala	Ala	Arg	Pro				
		260					265					270							
Asp	His	Glu	Ser	Gln	Lys	Pro	Val	Pro	Ala	Phe	Ile	Pro	Lys	Thr	Gly				
		275					280					285							
Ser	Glu	Gln	Leu	Ala	Ser	Gly	Arg	Gly	Glu	Leu	Phe	Ser	Leu	Ala	Arg				
		290				295					300								
Arg	Leu	Leu	Glu	Glu	Ile	Ala	Cys	Arg	Cys	Gly	Trp	Asn	Glu	Lys	Trp				
305				310						315				320					
Lys	Asp	Leu	Gly	Leu	Leu	Phe	Asp	Asp	Gln	Asp	Gln	Gly	Glu	Gly	Glu				
			325					330				335							
Met	Thr	Glu	Val	Ser	Leu	Asp	Gly	Gly	Thr	Asp	Glu	Lys	Pro	Asp	Glu				
		340					345					350							
Lys	Pro	Asp	Glu	Lys	Pro	Asp	Glu	Lys	Pro	Lys	Gly	Glu	Ser	Leu	Val				
		355					360					365							
Ser	Asn	Pro	Leu	Leu	Gly	Ile	Asp	Leu	Leu	Glu	Leu	Arg	Thr	Ala	Leu				
		370				375					380								
Arg	Ser	Arg	Lys	Thr	Phe	Arg	Ser	His	Tyr	Glu	Gln	Leu	Thr	Asp	Leu				
385					390					395				400					
Val	Tyr	Arg	His	Tyr	Val	Met	Ala	Asn	Arg	Thr	Tyr	Ser	Ala	Gln	Thr				
			405						410				415						
Ala	Leu	Ala	Asp	Met	Ala	Leu	Leu	Arg	Tyr	Arg	Gln	Asn	Asp	Tyr	Asn				
			420					425				430							
Ala	Ala	Ala	Ser	Tyr	Phe	His	Gln	Ile	Ile	Pro	Phe	Tyr	Gly	Thr	Lys				
		435					440					445							
Asn	Trp	Ile	Leu	Leu	Glu	Gly	Ile	Met	Leu	Glu	Met	Tyr	Ala	Arg	Cys				
		450				455					460								
Leu	Glu	Gln	Leu	Lys	Arg	Ile	Glu	Glu	Tyr	Val	Arg	Thr	Met	Leu	Arg				
465				470						475				480					
Leu	Leu	Ala	Lys	Phe	Ala	Val	His	Thr	His	Ser	Gly	Leu	Thr	Ala	Arg				
			485					490				495							
Glu	Lys	Thr	Leu	Asp	Ala	Ser	Ser	Ile	Phe	Thr	Glu	Gln	Ser	Leu	Val				
			500					505				510							
Ser	Arg	Tyr	Val	Glu	Lys	Leu	Phe	Glu	Ala	Ser	Gly	Thr	Leu	Gln	Lys				
		515					520					525							
Glu	Val	Ser	Ala	Pro	Phe	Ala	Asp	Phe	Phe	Ala	Asp	Leu	Glu	Val	Lys				

12041

530 535 540
 Pro Ile Ile Ile His Tyr Gly Asp Lys Asp Gly Phe Gln Met Gln Leu
 545 550 555 560
 Ser Leu Arg Phe Leu Leu Gly Lys Arg Ile Glu Ile Asp Ser Met Lys
 565 570 575
 Val Arg Leu Val Ser Ala Ser Gly Pro His Ser Asn Glu Asn Trp Ile
 580 585 590
 Glu Thr Ala Thr Lys Ala Ile Ile Lys Ser Ser Pro Thr Lys Val Leu
 595 600 605
 Val Asp Ser Thr Val Ser Phe Ser Asp Pro Ser Lys Leu Leu Thr Leu
 610 615 620
 Thr Glu Ile Ile
 625

<210> 31290
 <211> 94
 <212> PRT
 <213> A.fumigatus

<400> 31290
 Leu Lys Ser Tyr Lys Ala Thr Leu Gln Gly Lys Tyr Phe Val Asp Arg
 1 5 10 15
 Leu Glu Met Arg Ala Gly Asn Ile Leu Phe Thr Leu Ala Gly Gly Thr
 20 25 30
 His Pro Ala Leu Pro Val Gly Phe Arg Glu Val Leu Asp Ala Glu Glu
 35 40 45
 Ala Asp Ser Arg Pro Tyr Val Tyr Cys Phe Pro Arg Pro Glu Gly Leu
 50 55 60
 Gln Ala Lys Ile Thr Ser Pro His Leu Val Asn Leu Glu Gln Met Arg
 65 70 75 80
 Thr Val Phe Thr Ala Gly Ile Glu Gly Ser Ile Ile Ile Asn
 85 90

<210> 31291
 <211> 235
 <212> PRT
 <213> A.fumigatus

<400> 31291
 Val Arg Ser Val Arg Ser Leu Arg Ile Gly Phe Val Pro Ala Gln Leu
 1 5 10 15
 Glu Thr Asp Glu Arg Lys Pro Ser Ser Asp Thr Ser Arg Ser Ala Pro
 20 25 30
 Val Ala His Arg Arg His Gln Ile Pro Gly Leu Arg Gln Thr Pro Tyr
 35 40 45
 Leu Lys Ile Tyr Phe Leu Arg Cys Asp Asp Asn Glu Ser Tyr Lys Ala
 50 55 60
 Thr Ala Arg Lys Ala Leu Arg Asp Trp Ile Lys Ala His Ala Ser Thr
 65 70 75 80
 Pro Gln Ala Gly Ala Ser Ala Ala Ser Asn Gln Glu Lys His Asp Ala
 85 90 95
 Phe Glu Trp Leu Ile Val His Val Val Gln Asp Gly Asp Gly Lys Glu
 100 105 110
 Lys Ala Ala Pro Ala Ser Lys Trp Gly Arg Ser Thr Thr Thr Val Leu
 115 120 125
 Glu Lys Ile Lys Ala Asp Phe Asn Gly Ser Ser Lys Ser Ala Val Asp

12042

130	135	140
Arg Val Ala Gln Leu Arg	Leu Pro Arg Pro Gly Ser Thr Gln Arg Pro	
145	150	155
Thr Glu Leu Ala Asp Gln Val Glu Asp Leu Val Glu Lys Met Lys Asn		160
	165	170
Ala Ile Leu Ala Ser Phe Asp Leu Arg Val Ala Gln Tyr Glu Glu Asp		175
	180	185
Ile Lys Asp Asn Asp Ser Gln Arg Thr Leu Pro Gly Trp Asn Phe Cys		190
	195	200
Thr Phe Phe Ile Leu Asn Glu Gly Leu Ala Ile Gly Phe Asp Asn Val		205
	210	215
Gly Leu Phe Gln Asp Ala Leu Gly Arg Val Arg		220
225	230	235

<210> 31292

<211> 476

<212> PRT

<213> A.fumigatus

<400> 31292

Leu Glu Arg Tyr Lys Gly Lys Gln Leu Asp Leu Ser Leu Val Phe Arg	
1	5
Leu Ser Gly Leu Ala Ser Gly Ala Lys Leu Glu Leu Val Gln Leu Ser	10
	15
	20
Arg Ser Pro Ser Ile Val Thr Val Ala Leu Gln Leu Pro Glu Ala Glu	25
	30
	35
Ala Arg Gly Val Pro Asn Gly Arg Leu Leu Asp Lys Phe Pro Ser Thr	40
	45
	50
Thr Thr Leu Trp Leu Val Leu Arg Lys Phe Glu Ala Gly Val Ala Gly	55
	60
65	70
Gly Gly Pro Thr Arg Asn Phe Thr Gly Arg Gly Val Pro Val Ala Ser	75
	80
	85
Ala Gly Asn Glu Gly Ser Gly Arg Leu Phe Tyr Glu Thr Pro Val Val	90
	95
	100
Gln Ile Met Gly Arg Glu Leu Ser Thr Phe Glu Asp Leu Gln Lys Ser	105
	110
	115
Leu Ala Gln Leu Gly Phe Asn Ser Gly Asn Val Leu Val Arg Leu Ser	120
	125
	130
Phe Arg Arg Thr Glu Glu Pro Leu Glu Val Ala Met Val Lys Ile Gln	135
	140
145	150
Asp Tyr Phe Lys Ala Phe Glu Asp Ala Ala Pro Glu Pro Gln Glu Thr	155
	160
	165
Ala Gly Val Pro Ala Gln Pro Lys Thr Val Ala Glu Ser Gln Pro Gly	170
	175
	180
Gln Gln Val Pro Ser Ala Glu His Ala Glu Pro Leu Asp Ala Val Ala	185
	190
	195
Ala Ala Ala Ala Ala Pro Ala Leu Ser Thr Gln Glu Pro Gly Pro Asp	200
	205
	210
Ser His Pro Ser Ile Ala Ser Thr Glu Pro Ser Ala Val Thr Gln Pro	215
	220
225	230
Ser Ser Arg Pro Val Thr Val Phe Ser Ala Pro Ser Asn Thr Thr Pro	235
	240
	245
Gln Ala Ala Arg Met Thr Tyr Asn Glu Asp Asp Tyr Ile Pro Ser Val	250
	255
	260
Asp Gln Ala Gln Ala His Gln Arg Arg Leu Asn Ala Ala Ser Arg Pro	265
	270
	275
	280
	285

12043

Val Arg Leu Pro Thr Asp Ala Glu Ile Ala Ala Lys Ala Ala Glu Glu
 290 295 300
 Glu Glu Lys Arg Ala Ala Val Arg Glu Val Asp Val Lys Val Arg Leu
 305 310 315 320
 Pro Asp Gln Ser Gln Ile Val Ser Lys Phe Gly Gln Gln Asp Thr Gly
 325 330 335
 Ala Thr Leu Tyr Gly Phe Val Arg Ser Cys Leu Ser Glu Gln Phe Ala
 340 345 350
 Ser Glu Ser Phe Ile Leu Thr Ser Phe Pro Ala Gly Thr Pro Gly Leu
 355 360 365
 Gly Ala Lys Lys Ile Gln Ser Ile Ile Pro Asp Thr Asp Gln Thr Phe
 370 375 380
 Leu Ile Lys Asp Leu Gly Met Ile Gly Arg Val Leu Val Thr Phe Ser
 385 390 395 400
 Trp Asp Ala Ser Ala Ser Pro Ala Ala Arg Ser Thr Arg Ala Ser Leu
 405 410 415
 Leu Lys Pro Glu Leu Arg Asn Arg Ala Gln Glu Leu Lys Val Glu Gln
 420 425 430
 Pro Pro Glu Leu Met Asp Thr Ser Gln Asp Thr Leu Pro Ala Lys Val
 435 440 445
 Gly Gly Leu Gly Asp Arg Asp Arg Glu Lys Ser Gly Arg Lys Pro Gly
 450 455 460
 Gly Ile Pro Lys Trp Leu Lys Leu Pro Gly Lys Lys
 465 470 475

<210> 31293

<211> 177

<212> PRT

<213> A.fumigatus

<400> 31293

Leu Asn Tyr His Pro His Ser His Ile Asn Pro Pro Lys Tyr Arg Cys
 1 5 10 15
 Pro Arg Cys Ser Thr Arg Thr Cys Ser Leu Pro Cys Ser Arg Arg His
 20 25 30
 Lys Leu Trp Ser Gln Cys Ser Gly Val Arg Asp Pro Ala Ala Tyr Leu
 35 40 45
 Lys Arg Ser Glu Leu Ala Thr Glu Ser Ala Phe Asp Arg Asp Phe Asn
 50 55 60
 Phe Ile Thr Lys Ile Glu Arg Ser Leu Glu Arg Ala Glu Arg Glu Ala
 65 70 75 80
 Glu Val Arg Gly Ile Pro Leu Asp Gly Thr Thr Ala Ala Asp Pro Ala
 85 90 95
 Val Leu Gly Leu Glu His Glu Leu Gly Gln Asp Gly Pro Asp Ala Glu
 100 105 110
 Ala Gly Ser Lys Arg Lys Arg Pro Glu Gln Gly Gly Tyr Val Lys Gly
 115 120 125
 Glu Ala Gly Phe Val Arg Gly Ala Gln Ala Ala Gly Val Arg Val Ile
 130 135 140
 Arg Ala Pro Arg Gly Met Ser Arg Asn Lys Ala Asn Ala Ser Lys Trp
 145 150 155 160
 Asn Pro Lys Asn Asp Phe Ser Phe Trp Val Val Arg Ala Val Ser Val
 165 170 175

Cys

<210> 31294
 <211> 181
 <212> PRT
 <213> A.fumigatus

<400> 31294
 Gln Thr Arg Gln Ala Ser Ser Leu Arg Ser Arg Lys Ser Pro Ser Ser
 1 5 10 15
 Thr Leu Val Ser Leu Ser Arg Gln Pro Cys Ser Thr Leu Pro Val Asp
 20 25 30
 Ser Arg Ala Asn Pro Ser Trp Ser Leu Gln Arg Lys Asn Ser Pro Arg
 35 40 45
 Gly Ser Arg Thr Lys Gly Glu Phe Phe Leu Phe Pro Thr Thr Ile Val
 50 55 60
 Cys Ile Gln Arg Leu Asn Arg Asn Arg Lys Gly Ala Phe Asn Phe Ala
 65 70 75 80
 Lys Ser Ala Leu Pro Leu Leu Leu Gln Ala Gln Gly Leu Gln His Pro
 85 90 95
 Pro Thr Leu Ile Phe Thr Gly Ala Thr Ala Ser Val Lys Gly Ser Ala
 100 105 110
 Asn Phe Ala Ala Phe Ala Thr Gly Lys Phe Ala Leu Arg Ala Leu Ala
 115 120 125
 Gln Ser Leu Ala Arg Glu Phe Gly Pro Lys Gly Val His Val Ser His
 130 135 140
 Val Ile Ile Asp Gly Val Ile Asp Ile Pro Arg Thr Lys Ala Trp Thr
 145 150 155 160
 Phe Glu His Glu Asp Ala Lys Leu Asp Pro Asp Ala Val Arg Cys Phe
 165 170 175
 Phe Leu Val Trp Asn
 180

<210> 31295
 <211> 102
 <212> PRT
 <213> A.fumigatus

<400> 31295
 His Glu Gln Gly Ala Ser Ile Ala Arg Arg Phe Ala Lys Ala Tyr Ser
 1 5 10 15
 Val Val Val Leu Ser Arg Asn Pro Ala Asn Phe Glu Pro Leu Val Gln
 20 25 30
 Glu Ile Asn Ser Ser Gly Gly Gln Ala Leu Gly Ile Ser Ala Asp Val
 35 40 45
 Thr Asp Pro Thr Ser Val Lys Ser Ala Phe Glu Lys Ile Ala Gln Gln
 50 55 60
 Tyr Ala Gly Val Pro Leu Ala Ala Ala Val Phe Asn Pro Ala Gly Gly
 65 70 75 80
 Phe Thr Arg Lys Pro Phe Leu Glu Leu Thr Glu Glu Lys Phe Ser Gln
 85 90 95
 Gly Phe Glu Asn Gln Gly
 100

<210> 31296
 <211> 747
 <212> PRT
 <213> A.fumigatus

<400> 31296

Arg Arg Thr Pro Pro Lys Pro Gln Pro Glu Pro Ala Pro Glu Gln Thr
 1 5 10 15
 Ala Pro Asp Asp Ala Trp Gly Gly Trp Asp Val Pro Lys Lys Glu Lys
 20 25 30
 Asn Asn Lys Lys Gly Lys Ala Ala Glu Pro Glu Pro Glu Pro Glu Pro
 35 40 45
 Ile Pro Glu Ser Glu Leu Val Pro Glu Pro Glu Pro Glu Pro Glu Pro
 50 55 60
 Val Pro Glu Pro Ala Ala Glu Pro Glu Pro Glu Pro Glu Pro Glu Pro
 65 70 75 80
 Glu Pro Glu Lys Lys Ala Ser Gly Leu Pro Asp Asp Pro Leu Tyr Asp
 85 90 95
 Asn Trp Val Asn Leu Ser Ser Lys Glu Arg Lys Lys Arg Glu Lys Ala
 100 105 110
 Leu Lys Lys Lys Gly Leu Pro Ile Pro Gly Lys Asp Ile Glu Ile Pro
 115 120 125
 Pro Pro Glu Ala Glu Pro Ala Leu Glu Ala Ala Pro Glu Pro Pro Leu
 130 135 140
 Glu Pro Glu Pro Glu Pro Ala Ala Glu Pro Glu Pro Glu Pro Glu Pro
 145 150 155 160
 Val Val Glu Ser Gln Pro Glu Pro Glu Pro Val Ser Glu Pro Val Gln
 165 170 175
 Glu Glu Pro Val Val Glu Asp Ser Trp Gly Ile Trp Thr Ser Pro Lys
 180 185 190
 Asp Lys Lys Lys Pro Lys Lys Asn Lys Ile Ala Val Asp Pro Pro Pro
 195 200 205
 Pro Ala Pro Thr Pro Pro Ser Leu Gly Leu Asp Pro Asp Pro Pro Val
 210 215 220
 Pro Glu Glu Val Ala Glu Asp Leu Leu Phe Glu Asn Asp Thr Lys Pro
 225 230 235 240
 Ser Lys Gly Thr Lys Lys Gly Ser Phe Gly Val Asp Glu Thr Pro Thr
 245 250 255
 Lys Ala Val Arg Gly Phe Trp Ala Thr Phe Gly Ala Ala Thr Met Gly
 260 265 270
 Ser Arg Pro Lys Ala Thr Arg Lys Arg Ser Glu Glu Lys Pro Lys Leu
 275 280 285
 Ile Glu Pro Ala Lys Glu Pro Gly Pro Glu Gln Glu Pro Pro Val Pro
 290 295 300
 Ala Pro Glu Pro Leu Ala Asp Leu Leu Gly Asp Ile Gly His Ala Pro
 305 310 315 320
 Met Pro Glu Ala Pro Glu Pro Pro Leu Ile Asp Glu Pro Ala Ala Pro
 325 330 335
 Ala Ala Pro Pro Ala Lys Ser Thr Ser Lys Ala Lys Ser Ser Thr Lys
 340 345 350
 Leu Ser Val Ala Glu Arg Ile Lys Ala Leu Glu Gln Ala Lys Lys Glu
 355 360 365
 Arg Leu Lys Glu Lys Ala Lys Ala Lys Glu Thr Val Ser Pro Pro Glu
 370 375 380
 Pro Pro Asn Gln Glu Pro Ala Val Glu Ile Pro Pro Glu Pro Val Glu
 385 390 395 400
 Ala Pro Lys Ile Ser Arg Glu Ser Val Pro Gly Ser Phe Pro Asp Ala
 405 410 415
 Phe Glu Asp Asp Phe Gln Glu Pro Pro Pro Pro Ala Pro Glu Pro Glu
 420 425 430

Pro Glu Pro Ser Ile Asp Pro Pro Pro Glu Pro Glu Pro Glu Pro Glu
 435 440 445
 Leu Ala Pro Ala Pro Ala Pro Leu Ser Lys Lys Ala Glu Lys Lys Lys
 450 455 460
 Lys Lys Lys Gly Lys Leu Val Glu Pro Glu Pro Glu Leu Thr Pro Ala
 465 470 475 480
 Pro Glu Pro Glu Pro Glu Pro Glu Ser Ala Gln Pro Glu Pro Glu Pro
 485 490 495
 Glu Pro Glu Pro Ala Pro Ala Pro Glu Pro Glu Pro Glu Leu Ala Pro
 500 505 510
 Val Pro Val Gln Leu Ser Lys Thr Glu Lys Lys Lys Lys Thr Met Ala
 515 520 525
 Lys Ala Val Glu Pro Glu Pro Ala Pro Pro Glu Pro Glu Pro Glu Pro
 530 535 540
 Glu Arg Ala Leu Gly Pro Glu Pro Glu Pro Glu Pro Glu Pro Glu Pro
 545 550 555 560
 Glu Pro Glu Pro Ala Pro Glu Pro Ala Ala Glu Pro Val Asp Pro Pro
 565 570 575
 Thr Gln Glu Pro Lys Ala Thr Lys Lys Thr Lys Lys Ser Ser Lys Ser
 580 585 590
 Lys Met Ser Glu Pro Ala Met Glu Val Pro Pro Ala Arg Asp Val Pro
 595 600 605
 Ala Glu Glu Pro Gly Ala Asp Ala Gly Gly Ser Pro Thr Pro Pro Pro
 610 615 620
 Glu Pro Ala Ala Pro Gly Lys Ser Ala Lys Lys Glu Arg Ala Arg Val
 625 630 635 640
 Glu Arg Thr Pro Gly Val Ala Ser Trp Gly Phe Trp Gly Ala Thr Pro
 645 650 655
 Ala Pro Arg Lys Ser Ala His Arg Glu Val Arg Ser Ser Arg Ala Glu
 660 665 670
 Pro Ser Ser Gly Glu Val Val Arg Ser Lys Ser Thr Lys Tyr Ser Arg
 675 680 685
 Arg Glu Glu Val Pro Tyr Glu Ala Glu Lys Thr Ser Gly Ser Asp Arg
 690 695 700
 Asp Lys Arg Gln Gly Ser Lys Glu Asp Arg Ala Thr Thr Phe Ser Asn
 705 710 715 720
 Phe Ile Leu Gly Gly Pro Ala Pro Thr Arg Met Lys Val Phe Thr Thr
 725 730 735
 Gly Leu Glu Gly Ser Ala Ser Gln Leu Lys Ser
 740 745

<210> 31297

<211> 598

<212> PRT

<213> A.fumigatus

<400> 31297

Gly Thr Ser Ser Arg Leu Glu Tyr Leu Val Asp Phe Asp Arg Thr Thr
 1 5 10 15
 Ser Pro Asp Glu Gly Ser Ala Arg Leu Asp Leu Thr Ser Leu Trp Ala
 20 25 30
 Asp Phe Leu Gly Ala Gly Val Ala Pro Gln Lys Pro His Glu Ala Thr
 35 40 45
 Pro Gly Val Arg Ser Thr Arg Ala Arg Ser Phe Phe Ala Asp Phe Pro
 50 55 60
 Gly Ala Ala Gly Ser Gly Gly Gly Val Gly Glu Pro Pro Ala Ser Ala

65				70				75				80			
Pro	Gly	Ser	Ser	Ala	Gly	Thr	Ser	Leu	Ala	Gly	Gly	Thr	Ser	Met	Ala
				85				90						95	
Gly	Ser	Leu	Ile	Leu	Asp	Leu	Glu	Leu	Phe	Leu	Val	Phe	Leu	Val	Ala
			100					105					110		
Phe	Gly	Ser	Trp	Val	Gly	Gly	Ser	Thr	Gly	Ser	Ala	Ala	Gly	Ser	Gly
		115					120					125			
Ala	Gly	Ser	Gly	Ser	Gly	Ser	Gly	Ser	Gly	Ser	Gly	Ser	Gly	Ser	Gly
	130					135					140				
Pro	Ser	Ala	Arg	Ser	Gly	Ser	Gly	Ser	Gly	Ser	Gly	Gly	Ala	Gly	Ser
145					150					155					160
Gly	Ser	Thr	Ala	Leu	Ala	Ile	Val	Phe	Phe	Phe	Phe	Ser	Val	Phe	Glu
			165					170						175	
Ser	Cys	Thr	Gly	Thr	Gly	Ala	Ser	Ser	Gly	Ser	Gly	Ser	Gly	Ala	Gly
		180						185					190		
Ala	Gly	Ser	Gly	Ser	Gly	Ser	Gly	Ser	Gly	Cys	Ala	Asp	Ser	Gly	Ser
	195						200					205			
Gly	Ser	Gly	Ser	Gly	Ala	Gly	Val	Ser	Ser	Gly	Ser	Gly	Ser	Thr	Ser
	210					215						220			
Leu	Pro	Phe	Phe	Phe	Phe	Phe	Phe	Ser	Ala	Phe	Leu	Asp	Lys	Gly	Ala
225					230					235					240
Gly	Ala	Gly	Ala	Ser	Ser	Gly	Ser	Gly	Ser	Gly	Ser	Gly	Gly	Gly	Ser
			245					250						255	
Ile	Asp	Gly	Ser	Gly	Ser	Gly	Ser	Gly	Ala	Gly	Gly	Gly	Gly	Ser	Trp
		260						265						270	
Lys	Ser	Ser	Ser	Lys	Ala	Ser	Gly	Lys	Leu	Pro	Gly	Thr	Asp	Ser	Arg
	275						280						285		
Glu	Ile	Leu	Gly	Ala	Ser	Thr	Gly	Ser	Gly	Gly	Ile	Ser	Thr	Ala	Gly
	290					295					300				
Ser	Trp	Leu	Gly	Gly	Ser	Gly	Gly	Asp	Thr	Val	Ser	Leu	Ala	Phe	Ala
305					310					315					320
Phe	Ser	Phe	Ser	Leu	Ser	Phe	Leu	Ala	Cys	Ser	Arg	Ala	Leu	Met	Arg
			325						330					335	
Ser	Ala	Thr	Glu	Ser	Leu	Val	Asp	Asp	Leu	Ala	Leu	Glu	Val	Leu	Phe
		340						345					350		
Ala	Gly	Gly	Ala	Ala	Gly	Ala	Ala	Gly	Ser	Ser	Ile	Arg	Gly	Gly	Ser
	355						360					365			
Gly	Ala	Ser	Gly	Ile	Gly	Ala	Cys	Pro	Met	Ser	Pro	Ser	Arg	Ser	Ala
	370					375					380				
Arg	Gly	Ser	Gly	Ala	Gly	Thr	Gly	Gly	Ser	Cys	Ser	Gly	Pro	Gly	Ser
385					390					395					400
Phe	Ala	Gly	Ser	Met	Ser	Phe	Gly	Phe	Ser	Ser	Asp	Leu	Phe	Leu	Val
			405						410					415	
Ala	Phe	Gly	Leu	Glu	Pro	Ile	Val	Ala	Ala	Pro	Asn	Val	Ala	Gln	Asn
		420						425					430		
Pro	Leu	Thr	Ala	Leu	Val	Gly	Val	Ser	Ser	Thr	Pro	Lys	Asp	Pro	Phe
	435						440					445			
Leu	Val	Pro	Leu	Glu	Gly	Leu	Val	Ser	Phe	Ser	Asn	Arg	Arg	Ser	Ser
	450					455					460				
Ala	Thr	Ser	Ser	Gly	Thr	Gly	Gly	Ser	Gly	Ser	Arg	Pro	Ser	Glu	Gly
465					470					475					480
Gly	Val	Gly	Ala	Gly	Gly	Gly	Gly	Ser	Thr	Ala	Ile	Leu	Phe	Phe	Leu
			485						490					495	
Gly	Phe	Phe	Leu	Ser	Phe	Gly	Glu	Val	Gln	Ile	Pro	Gln	Leu	Ser	Ser
			500					505					510		
Thr	Thr	Gly	Ser	Ser	Cys	Thr	Gly	Ser	Glu	Thr	Gly	Ser	Gly	Ser	Gly

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<210> 31298
<211> 139
<212> PRT
<213> A.fumigatus
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<210> 31299
<211> 240
<212> PRT
<213> A.fumigatus
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<400> 31299																
Lys	Ala	Trp	Cys	His	Ser	Arg	Ile	Gly	Asp	Pro	Pro	Pro	Pro	Leu	Pro	
1				5					10					15		
Glu	Gln	Glu	Gly	Arg	Gly	Pro	Gly	Leu	Val	Arg	Glu	Val	Leu	Gly	Gln	
			20					25					30			
Gly	Ala	Ala	Gly	Gln	Arg	Gln	Ser	Cys	Ser	Ser	Trp	Ala	Ser	Ser	Cys	
		35					40					45				
Pro	Leu	Gly	Arg	Ser	Arg	Tyr	Pro	Ser	Tyr	Pro	Gln	Leu	Gln	Val	Leu	
	50					55					60					
Pro	Val	Leu	Val	Arg	Lys	Leu	Ala	Gln	Ala	Leu	Val	Val	Ile	Gln	Arg	
65					70					75					80	
Pro	Ala	Gln	Val	Leu	Ala	Arg	Ala	Gln	Arg	Leu	Ala	Gln	Val	Arg	Val	
				85					90					95		
Pro	Lys	Glu	Val	Gln	Glu	Pro	Leu	Leu	Ala	Gln	Ala	Leu	Leu	Leu	Val	

Pro	Val	Glu	Gly	Ser	Glu	Thr	Pro	Ala	Asp	Gly	Thr	Pro	Ala	Glu	Glu
1				5					10					15	
Asn	Thr	Glu	Lys	Lys	Glu	Glu	Ala	Glu	Lys	Lys	Asp	Asp	Lys	Pro	Ala
			20					25					30		
Lys	Pro	Ser	Gly	Pro	Thr	Pro	Ala	Tyr	Val	Ser	Pro	Ala	Glu	Tyr	Ser
			35				40					45			
Ser	Arg	Ser	Leu	Pro	Pro	Thr	Leu	Pro	Gln	Ser	Leu	Asp	Ser	Ser	Val
			50			55					60				
Pro	Ile	Pro	Phe	Pro	His	Leu	Xaa	Gly	Phe	Leu	Asn	Thr	Pro	Ile	Arg
65					70					75					80
Leu	Tyr	Arg	Tyr	Leu	Ser	Arg	Arg	His	Ile	Ala	Asp	Glu	Ile	Gly	Arg
				85					90					95	
Glu	Val	Ala	Gly	Leu	Val	Leu	Ala	Ser	Ser	Ser	Arg	Pro	Tyr	His	Asp
			100					105					110		
Gly	Ser	Phe	Ser	Ser	Asp	Ser	Glu	Leu	Ser	Gly	Ala	Met	Val	Asp	Ala
			115				120					125			
Gly	Ala	Ser	Thr	Leu	Ser	Ser	Pro	Asp	Asp	Met	Met	Pro	Ser	Ser	Ser
			130			135						140			
Ala	Lys	Tyr	Glu	Gln	Gln	Thr	Val	Leu	Glu	Lys	Glu	Glu	Ser	Glu	Trp
145					150					155					160
His	Lys	Ser	Val	His	Lys	Arg	Asp	Glu	Glu	Asn	Pro	Asp	Lys	Glu	Arg
				165					170					175	
Glu	Trp	Ile	Asp	Asp	Ile	Val	Leu	Asp	Pro	Arg	Ile	Ala	Ser	Arg	Met
			180					185					190		
Gln	Arg	Ser	Leu	Leu	Ser	Ala	Asp	Glu	Glu	Ala	Arg	Ser	Gln	Arg	Ile
			195				200					205			
Thr	Glu	Gly	Lys	Glu	Tyr	Ile	Leu	Gly	Glu	Glu	Arg	Pro	Ala	Pro	Val

12050

210 215 220
 Ser Phe Trp Gln Arg Met Trp Ile Lys Tyr Gly Tyr Gly Glu Asp Glu
 225 230 235 240
 Glu Thr Ile Arg Met Lys Pro Ile Ile Gly Asn Leu Asp Gly Ala Asp
 245 250 255
 Gly Glu

<210> 31301

<211> 572

<212> PRT

<213> A.fumigatus

<400> 31301

Gly Tyr Val Gln Ser Arg Ser Ala Met Leu Gln Ala Arg Pro Gly Phe
 1 5 10 15
 Arg Gln Asn Trp Thr Ala Leu Ala Ile Ala His His Leu Ala Gly Asp
 20 25 30
 Leu Glu Glu Ala Glu Lys Val Leu Thr Thr Tyr Glu Glu Thr Leu Lys
 35 40 45
 Gln Gln Pro Pro Ile Ser Asp Met Glu His Ser Glu Ala Val Leu Tyr
 50 55 60
 Lys Asn Met Ile Met Ala Glu Ala Gly Lys Val Gln Gln Ala Leu Asp
 65 70 75 80
 His Leu Glu Thr Ile Gly Tyr Arg Ile Thr Asp Val Leu Ala Val Met
 85 90 95
 Glu Met Lys Ala Asp Tyr Leu Leu Arg Leu Asp Arg Lys Ala Glu Ala
 100 105 110
 Glu Ala Ala Tyr Thr Ala Leu Leu Glu Arg Asn Pro Glu Asn Ser Ile
 115 120 125
 Tyr Tyr Asp Gly Leu Ile Arg Ala Lys Gly Ile Ser Glu Ser Asp His
 130 135 140
 Ala Ala Leu Lys Ala Phe Tyr Asp Ala Trp Ala Asp Lys His Pro Arg
 145 150 155 160
 Gly Asp Ala Pro Arg Arg Ile Pro Leu Asp Phe Leu Glu Gly Glu Glu
 165 170 175
 Phe Lys Gln Ala Ala Asp Ala Tyr Leu Gln Arg Met Leu Lys Lys Gly
 180 185 190
 Val Pro Ser Leu Phe Ala Asn Ile Lys Ser Leu Tyr Thr Asn Pro Ser
 195 200 205
 Lys Arg Asp Thr Val Gln Glu Leu Val Glu Ser Tyr Val Ser Gly Asn
 210 215 220
 Gly Thr Ala Glu Ser Asn Gly Ser Ala Glu Gly Ala Ala Thr Lys Asp
 225 230 235 240
 Ser Thr Glu Phe Leu Ala Ser Thr Tyr Tyr Phe Leu Ala Gln His Tyr
 245 250 255
 Asn Tyr His Leu Ser Arg Asn Leu Ser Lys Ala Met Glu Cys Val Asp
 260 265 270
 Lys Ala Ile Glu Leu Ala Pro Lys Ala Val Glu Tyr Gln Met Thr Lys
 275 280 285
 Ala Arg Ile Trp Lys His Tyr Gly Asn Leu Gln Lys Ala Ala Glu Glu
 290 295 300
 Met Glu Lys Ala Arg Leu Leu Asp Glu Lys Asp Arg Tyr Ile Asn Ser
 305 310 315 320
 Lys Ala Ala Lys Tyr Gln Leu Arg Asn Asn Asp Asn Glu Lys Ala Leu
 325 330 335

12051

Asp Asn Met Ser Lys Phe Thr Arg Asn Glu Thr Val Gly Gly Ala Leu
 340 345 350
 Gly Asp Leu His Glu Met Gln Cys Val Trp Tyr Leu Thr Glu Asp Gly
 355 360 365
 Glu Ser Tyr Leu Arg Gln Lys Lys Leu Gly Leu Ala Leu Lys Arg Phe
 370 375 380
 His Gly Val Asn Asn Ile Phe Asp Val Trp Gln Glu Asp Gln Phe Asp
 385 390 395 400
 Phe His Ser Phe Ser Leu Arg Lys Gly Met Ile Arg Ala Tyr Val Asp
 405 410 415
 Met Val Arg Trp Glu Asp Arg Leu Arg Glu His Pro Phe Tyr Thr Arg
 420 425 430
 Met Ala Leu Ser Ala Ile Lys Ala Tyr Ile Leu Leu His Asp Glu Pro
 435 440 445
 Asp Leu Ala His Gly Pro Leu Pro Ser Gly Leu Asn Gly Ser Gly Asp
 450 455 460
 Gln Asp Asp Ala Glu Arg Lys Lys Ala Leu Lys Lys Ala Lys Lys Glu
 465 470 475 480
 Gln Gln Arg Leu Glu Lys Ile Glu Ala Glu Lys Arg Glu Ala Arg Lys
 485 490 495
 Ala Ala Ala Ala Thr Ala Lys Gly Ala Asp Gly Glu Thr Lys Lys Glu
 500 505 510
 Asp Pro Asp Pro Leu Gly Asn Lys Leu Val Gln Thr Gln Asp Pro Leu
 515 520 525
 Lys Asp Ala Thr Lys Phe Leu Thr Pro Leu Leu Glu His Ser Pro Lys
 530 535 540
 Asn Ile Glu Ala Gln Cys Leu Gly Phe Glu Val Tyr Leu Arg Gln Ser
 545 550 555 560
 Lys Tyr Asn Ser Leu Gly Met Pro Leu Glu Ile Gly
 565 570

<210> 31302

<211> 101

<212> PRT

<213> A.fumigatus

<400> 31302

Val Gln Phe Thr Trp Asp Ala Phe Gly Asn Trp Leu Lys Pro Leu Ile
 1 5 10 15
 Glu Lys Tyr Ala Leu Ala Leu Lys Cys Leu Ala Ala Ala His Gln Ile
 20 25 30
 Asp Ala Ser Asn Pro Thr Leu His Val Gln Leu Leu Arg Phe Arg Lys
 35 40 45
 Ala Leu Asp Ser Leu Ser Glu Pro Leu Ala Pro Glu Val Ala Glu Val
 50 55 60
 Val Asn Thr Glu Phe Glu Lys Leu Leu Pro Lys Ser Gln Asn Leu Glu
 65 70 75 80
 Glu Trp Asn Asn Ser Phe Leu Ser Ala His Lys Glu Ser Pro Leu Cys
 85 90 95
 Asn Thr Ser Pro Val
 100

<210> 31303

<211> 72

<212> PRT

<213> A.fumigatus

<400> 31303

Gly Asp Gln Cys Arg Thr Ile Ala Ile Lys Ala Val Ala Lys Ala Asn
 1 5 10 15
 Gly Leu Asp Leu Asp Ile Arg Glu Thr Pro Arg Thr Pro Asp His Leu
 20 25 30
 Ser Ile Ser Lys Leu Gly Lys Val Pro Ala Phe Gln Gly Ala Asp Gly
 35 40 45
 Phe Lys Leu Phe Glu Cys Met Ala Ile Ala Leu Tyr Ser Glu Leu Arg
 50 55 60
 Tyr Pro Val Gly Val Ile Glu Asn
 65 70

<210> 31304

<211> 105

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (20), (23), (44)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31304

Gln Pro Ser Ser Val Thr Ser Gln Asn Glu Gln Thr Thr Leu Ser Arg
 1 5 10 15
 Lys Asp Lys Xaa Glu Tyr Xaa Glu Ile Ile Lys Trp Met Ser Phe Phe
 20 25 30
 Asn Thr Glu Ile Val Ile Leu Met Thr Pro Thr Xaa Thr Ala Gln Leu
 35 40 45
 Gly Val Asn Pro Tyr Asp Arg Glu Gln Val Glu Val Phe Arg Thr Met
 50 55 60
 Thr His Asp Ser Ser Ile Val Ser Arg Ser Ile Ala Gly Pro Thr Phe
 65 70 75 80
 Leu Gly Gly Asp Ser Ser Pro Leu Trp Asn Cys Leu Gly Arg Lys His
 85 90 95
 Leu Leu Gly Phe Gln Ser Ser Thr Ala
 100 105

<210> 31305

<211> 221

<212> PRT

<213> A.fumigatus

<400> 31305

Ser Asp Trp Ser Trp Arg Leu Pro Ser Leu Leu Gln Ala Ile Cys Thr
 1 5 10 15
 Val Val Ile Ile Ala Gly Ile Trp Trp Met Pro Glu Ser Pro Arg Trp
 20 25 30
 Leu Met Asn Lys Gly Arg His Glu Glu Ala Leu Glu Ile Leu Val Lys
 35 40 45
 Tyr His Ala Glu Gly Asp His Asn Asp Glu Phe Val Gln Leu Glu Tyr
 50 55 60
 Ser Glu Ile Lys Ala Ala Ile Ala Leu Asp Lys Glu Ile Gly His Thr
 65 70 75 80
 Gly Trp Val Asp Phe Leu Arg Ser Lys Gly Asn Arg Lys Arg Ile Ala

[illegible]

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<210> 31306
<211> 126
<212> PRT
<213> A.fumigatus
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Arg	Met	Asp	Arg	Ser	Gly	Leu	Met	Ala	Asn	Tyr	Thr	Thr	Glu	Ile	Leu
1				5					10					15	
Pro	Tyr	Gly	Leu	Arg	Ala	Lys	Gly	Phe	Thr	Trp	Leu	Asn	Phe	Cys	Val
			20					25					30		
Thr	Ala	Ala	Leu	Phe	Phe	Asn	Gln	Tyr	Ile	Asn	Ala	Ile	Ala	Leu	Asp
		35					40					45			
Ala	Leu	Ala	Trp	Lys	Tyr	Tyr	Ile	Val	Tyr	Cys	Val	Phe	Leu	Gly	Phe
	50					55					60				
Glu	Val	Phe	Val	Ile	Tyr	Ser	Phe	Leu	Ile	Glu	Thr	Arg	Tyr	Thr	Pro
65					70					75				80	
Met	Glu	Glu	Ile	Ala	Lys	Tyr	Phe	Asp	Gly	Glu	Asp	Ala	Val	Asp	Val
				85					90					95	
Gly	Gln	Ile	Ala	Ala	Ala	Asp	Leu	Lys	Glu	Gln	Gly	Ile	Ile	Ala	Ser
			100					105					110		
Asp	Asp	Lys	Gly	Thr	Ala	Thr	Ile	His	Ile	Glu	Lys	Asn	Glu		
		115					120					125			

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<211> 210
<212> PRT
<213> A.fumigatus
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<223> Identity of amino acid sequences at the above locations are unknown.

Lys His His Gly Arg Gly Arg Lys His Met Ala Pro Ser Phe Ser Ser
1 5 10 15
Ala Val Val His Val Phe Ser Ser Met Gly Asp Asp His Asp Ser Phe
20 25 30

12054

Val Xaa Thr Leu Leu Gln Leu Gln Gln Xaa Thr Pro Ala Gln Leu Phe
 35 40 45
 His Ala Val Lys Ser Tyr Arg Pro Glu Val Gly Glu Lys Val Leu Thr
 50 55 60
 Lys Gln Ala Met Lys Phe Xaa Leu Asp Phe Gln Arg Asp Xaa Asp Leu
 65 70 75 80
 Leu Ala Arg Glu Gln Leu Arg Leu Gln Gly Ala Ala Glu Gln Gly Thr
 85 90 95
 Ala Asp Glu Pro Gly Pro Lys Asp Gly Arg Pro Glu Thr Pro Lys Gln
 100 105 110
 Asp Arg Pro Ser Asn Ala Pro Ala Pro Val Thr Pro Glu Ala Ser Thr
 115 120 125
 His Ser Met Ala Ser Pro Gly Ser Ala Ser Ala Ser Pro Arg Pro Gly
 130 135 140
 Gln Pro Ser Arg Pro Asp Glu Arg Asn Gly Thr Asn Ser Val Phe Leu
 145 150 155 160
 Asp Pro Ser Leu Thr Leu Pro Phe Ser Leu Pro Thr Ser Thr Asp Met
 165 170 175
 Leu Ile Ser Tyr Gly Ala Gly Trp Gly Gly Thr Asn Arg Glu Arg Ala
 180 185 190
 Arg Lys Tyr Ile Pro Thr Val Pro Pro Glu Val Leu Thr Arg Phe Asp
 195 200 205
 Arg Asp
 210

<210> 31308

<211> 78

<212> PRT

<213> A.fumigatus

<400> 31308

Pro Lys Gly Lys Lys Ala Thr Lys Lys Cys Pro Thr Gly Lys Ser Leu
 1 5 10 15
 Asp Cys Gln Thr Gly Asn Ser Ser Phe Leu Pro Leu Phe Phe Phe Ser
 20 25 30
 Phe Ile Ser Phe Ser Ser Ile Ser Arg Pro Ser Ser Ile Ile Ser Asn
 35 40 45
 Ile Leu Pro Leu Pro Phe Thr Leu Phe Val Pro Phe Ser Leu Ser Phe
 50 55 60
 Phe Val Phe Pro Leu Met Thr Gln Val Phe Ala Cys Cys Val
 65 70 75

<210> 31309

<211> 77

<212> PRT

<213> A.fumigatus

<400> 31309

Arg Arg Ser Ile Thr Ala Lys His Leu Gln Tyr Leu Leu Ser Leu Arg
 1 5 10 15
 Glu Lys Glu Thr Pro Asp Leu Asn Asp Asn Gly Lys Glu Ala Val Ser
 20 25 30
 Gln Ile Gln Gln Lys Val Arg Ala Glu Asn Leu Ser Lys Asp Gly Asp
 35 40 45
 Arg Ile Leu Gln Trp Arg Lys Asn Pro Thr Glu Ile Ala Leu Gly Asp
 50 55 60

12055

Asn Asp Arg Gly Thr Asp Gln Ala Ser Gly Cys Thr Thr
65 70 75

<210> 31310
<211> 128
<212> PRT
<213> A.fumigatus

<400> 31310
Thr Gln Val Asp Ser Ser Lys Leu Asp Ser Phe Lys Met Glu Tyr His
1 5 10 15
Gly Asp Gly Asn Gly Ser Gly His Pro Ser Gln Ser Gln Glu Ser Ala
20 25 30
Tyr Pro Asp Ile Asp Glu Thr Leu Gln Tyr Pro Trp Gln Gly Ser Gln
35 40 45
Pro Ala Val Ala Gly Glu Ser Ser Leu His Ser Val Ile Asp Pro Arg
50 55 60
Leu Tyr Lys Asp Leu Phe Ser Arg Ser Ala Ser Gly Gln Gln Ala Met
65 70 75 80
Glu Tyr Gly Asp Glu Glu Asp Ala Gln Glu Tyr Ser Gln Leu Asp Gly
85 90 95
Ser Ala Glu Asp Ser Thr Tyr Glu Phe Ser Ala Glu Glu Ser Ser Thr
100 105 110
Ser Val Cys Ser Ser Glu Ile Thr Leu Pro Leu Ile Thr Asp Val Phe
115 120 125

<210> 31311
<211> 310
<212> PRT
<213> A.fumigatus

<400> 31311
Ser Leu Met Phe Ser Arg Glu Glu Glu Pro Ser Asp Val Glu Glu Asn
1 5 10 15
Ala Ala Asp Glu Gly Asp Asp Asp Ser Val Gly Arg Arg Arg Arg Arg
20 25 30
Arg Arg Gly Thr Gly Pro Phe Ser Gly Arg Trp Gly Ala Arg Gly Gly
35 40 45
Lys Gly Ile Lys Arg Gly Pro Arg Lys Pro Leu Glu Pro Ser Ala Glu
50 55 60
Phe Lys Met Leu His Ser Asp Ala Thr Ser Ala Phe Ile Asp Gly Asp
65 70 75 80
Tyr Glu Thr Ala Ile Asp Leu Val Lys Arg Ala Ile His Ile Asn Pro
85 90 95
Glu Met Phe Ala Ala His Ser Leu Leu Ser Glu Ile Phe Leu Ala Gln
100 105 110
Gly Gln Lys Asp Lys Ala Leu Thr Ala Leu Phe Ser Gly Ala His Thr
115 120 125
Arg Pro Arg Asp Ala Ser Val Trp Phe Lys Val Ala Gln Met Ile Leu
130 135 140
Asp Arg Ala Gly Asp Asp Arg Pro Ala Ala Leu Asn Asp Val Ile Tyr
145 150 155 160
Cys Leu Ser Arg Val Ile Asp Ile Glu Pro Lys Asn Tyr Asn Ala Arg
165 170 175
Phe Gln Arg Ala Ala Val Tyr Arg Glu Leu Gly His Asn Gly Arg Ala
180 185 190

12056

Val Thr Glu Tyr Glu Arg Ile Leu Lys Glu Val Pro His His Pro Arg
 195 200 205
 Ala Leu Arg Asn Leu Ala Glu Ala Tyr Ile Asp Leu Asn Glu Val Thr
 210 215 220
 Lys Ala Val Asp Gln Trp Thr Glu Ser Val Glu Tyr Tyr Lys Ser Phe
 225 230 235 240
 Glu Pro Glu Asp Ala Pro Asp Phe Ser Trp Ser Asp Ala Asn Ile Tyr
 245 250 255
 Ala Glu Leu Phe Ser Tyr Leu Gly Arg Tyr Glu Glu Gly Leu Lys Ala
 260 265 270
 Leu Lys Ser Val Ser Arg Trp Leu Leu Gly Arg Arg Asp Asp Thr Met
 275 280 285
 Trp Glu Asn Phe Asn Glu Asp Asp Arg Ala Trp Glu Phe Ser Pro Asp
 290 295 300
 Gly Ala Arg Ser Ala Arg
 305 310

<210> 31312

<211> 303

<212> PRT

<213> A.fumigatus

<400> 31312

Gly Trp Thr Gly Ala Ala Pro Ser Ser Pro Val Val Lys Thr Gly Pro
 1 5 10 15
 Leu His Asn Pro His Phe Ile Gln Lys Ile Leu Asp Met Leu Pro Asp
 20 25 30
 Val Asp Arg Asp Ile Tyr His Thr Val Glu Arg Ile Glu Gly Met Leu
 35 40 45
 Thr Thr Ala Leu Glu Glu Asp Leu Asn Leu Asp Thr Ile Ser Ser Ser
 50 55 60
 Thr Pro Thr Gly Thr Leu Ala Ala Glu Lys Glu Leu Thr Glu Val Ser
 65 70 75 80
 Thr Ser Arg Glu Tyr Ser Ala Ile Ile Pro Arg Leu Asp Pro Ala Leu
 85 90 95
 Arg Asp Pro Phe Pro Phe Tyr Phe Thr Leu Ser Ser Leu Ala Lys Val
 100 105 110
 Leu His Thr Ser Thr Ile Ser Ala Asp Ala Phe Arg Gly Ala Leu Arg
 115 120 125
 Ser Leu Gly Tyr Arg Ser Thr Arg Ser His Ala Lys Pro Asn Thr Ile
 130 135 140
 Arg Thr Asp Ala Pro Trp Asp Val Ile Trp Glu Ile Met Arg Glu Trp
 145 150 155 160
 Val Arg Gln Lys Ala Pro Val Lys Glu Gly Ala Ile Arg Pro Gly Thr
 165 170 175
 Pro Gly Ala Ala Ile Met Ala Lys Ser Arg Glu Asn Ser Arg Lys Asp
 180 185 190
 Lys Gly Glu Asp Ser Leu Asn Ile Leu Arg Glu Glu Leu Met Ser Ala
 195 200 205
 Ala Glu Ser Gly Lys Asp Ile Ser Asp Leu Val Thr Lys Val Glu Ala
 210 215 220
 Ala Ile Tyr Arg Phe Ser His Arg Tyr Pro Pro Arg Ile Gln Gly Ala
 225 230 235 240
 Glu Leu Arg Gln Gln Thr Glu Gly Pro Gln Ser Pro Gln Thr Ala Pro
 245 250 255
 Ala Val Lys Gln Asn Leu Asn Thr Leu Glu Val Val Phe Asp Glu Ala

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<210> 31313
<211> 430
<212> PRT
<213> A.fumigatus
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<400>	31	31	13														
Thr	Thr	Ala	Arg	Glu	Asn	Pro	Gly	Lys	Phe	Pro	Ser	Pro	Leu	Leu	Asp		
1				5					10					15			
Ile	Lys	Tyr	Arg	Arg	Arg	Gln	Leu	Asp	Leu	Arg	Arg	Lys	Gln	Ile	Lys		
			20					25					30				
Glu	Trp	Gln	Glu	Ser	Glu	Leu	Leu	Tyr	Leu	Gln	Glu	Glu	Ile	Glu	Ala		
		35					40					45					
Met	Lys	Ala	Gln	Gly	Leu	Ala	Ser	Ser	Asp	Leu	Ser	Asp	Tyr	Met	Gln		
	50					55					60						
Glu	Arg	Ala	Arg	His	Ile	Glu	Arg	Glu	Ala	Val	Arg	Gln	Glu	Lys	Asp		
65					70					75					80		
Ala	Gln	Phe	Ser	Leu	Gly	Asn	Asn	Phe	Trp	Lys	Gln	Asp	Ser	Arg	Ile		
				85					90						95		
Ala	Pro	Leu	Arg	Gly	Ala	Leu	Ala	Thr	Trp	Gly	Leu	Thr	Ile	Asp	Asp		
			100					105						110			
Ile	Gly	Val	Ala	Ser	Phe	His	Gly	Thr	Ser	Thr	Val	Ala	Asn	Asp	Lys		
		115					120					125					
Asn	Glu	Ser	Asp	Val	Ile	Cys	Gln	Gln	Met	Lys	His	Leu	Gly	Arg	Lys		
	130					135					140						
Lys	Gly	Asn	Ala	Val	Leu	Gly	Ile	Phe	Gln	Lys	Tyr	Leu	Thr	Gly	His		
145					150					155					160		
Pro	Lys	Gly	Ala	Ala	Gly	Ala	Trp	Met	Phe	Asn	Gly	Cys	Leu	Gln	Val		
				165					170					175			
Leu	Asp	Ser	Gly	Leu	Val	Pro	Gly	Asn	Arg	Asn	Ala	Asp	Asn	Val	Asp		
		180						185					190				
Lys	Val	Met	Glu	Lys	Phe	Asp	Tyr	Ile	Val	Tyr	Pro	Ser	Arg	Ser	Ile		
	195						200					205					
Gln	Thr	Asp	Gly	Ile	Lys	Ala	Phe	Ser	Val	Thr	Ser	Phe	Gly	Phe	Gly		
	210					215					220						
Gln	Lys	Gly	Ala	Gln	Val	Ile	Gly	Ile	His	Pro	Lys	Tyr	Leu	Tyr	Ala		
225					230					235					240		
Thr	Leu	Asp	Arg	Ser	Gln	Phe	Glu	Ala	Tyr	Lys	Ala	Lys	Val	Glu	Ser		
				245					250					255			
Arg	Gln	Lys	Lys	Ala	Tyr	Arg	Phe	Phe	His	Asn	Gly	Leu	Ile	Asn	Asn		
			260					265					270				
Ser	Ile	Phe	Val	Ala	Lys	Asn	Lys	Ala	Pro	Tyr	Glu	Asp	Asn	Ile	Gln		
	275						280					285					
Ser	Asn	Val	Phe	Leu	Asn	Pro	Asp	Tyr	Arg	Val	Ala	Val	Asp	Lys	Lys		
	290					295					300						
Thr	Ser	Glu	Leu	Lys	Phe	Pro	Pro	Leu	Pro	Pro	Lys	Ala	Ser	Asp	Lys		
305					310												

12058

Val Asn Ile Glu Asn Glu Thr Phe Ile Glu Arg Asn Phe Thr Ala Ser
 355 360 365
 Glu Gln Glu Tyr Cys Arg Lys Ala Ser Ser Pro Gln Ser Ser Phe Ala
 370 375 380
 Gly Arg Trp Ser Ala Lys Glu Ala Val Phe Lys Ser Leu Gly Val Cys
 385 390 395 400
 Ser Lys Gly Ala Gly Ala Pro Leu Lys Asp Ile Glu Ile Leu Ser Asp
 405 410 415
 Thr Ser Gly Ala Pro Val Val Asn Val Ser Leu Leu Pro Phe
 420 425 430

<210> 31314
 <211> 105
 <212> PRT
 <213> A.fumigatus

<400> 31314
 Thr Glu Thr Leu His Ile Val Leu Thr Met Gln Ile Phe Val Lys Thr
 1 5 10 15
 Leu Thr Gly Lys Thr Ile Thr Leu Glu Val Glu Ser Ser Asp Thr Ile
 20 25 30
 Asp Asn Val Lys Ser Lys Ile Gln Asp Lys Glu Gly Ile Pro Pro Asp
 35 40 45
 Gln Gln Arg Leu Ile Phe Ala Gly Lys Gln Leu Glu Asp Gly Arg Thr
 50 55 60
 Leu Ser Asp Tyr Asn Ile Gln Lys Glu Ser Thr Leu His Leu Val Leu
 65 70 75 80
 Arg Leu Arg Gly Gly Met Gln Ile Cys Lys Leu Leu Cys Leu Leu Pro
 85 90 95
 Asn Phe Ala Thr Leu Val Ala Thr Phe
 100 105

<210> 31315
 <211> 251
 <212> PRT
 <213> A.fumigatus

<400> 31315
 Val Thr Leu Pro Ser Ala Gln Phe Cys His Pro Gly Gly His Ile Leu
 1 5 10 15
 Gly Ser Pro Ala Asp Ser Leu Ile Thr Val Val Lys Thr Leu Thr Gly
 20 25 30
 Lys Thr Ile Thr Leu Glu Val Glu Ser Ser Asp Thr Ile Asp Asn Val
 35 40 45
 Lys Ser Lys Ile Gln Asp Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg
 50 55 60
 Leu Ile Phe Ala Gly Lys Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp
 65 70 75 80
 Tyr Asn Ile Gln Lys Glu Ser Thr Leu His Leu Val Leu Arg Leu Arg
 85 90 95
 Gly Gly Met Gln Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr
 100 105 110
 Leu Glu Val Glu Ser Ser Asp Thr Ile Asp Asn Val Lys Ser Lys Ile
 115 120 125
 Gln Asp Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala
 130 135 140

12059

Gly Lys Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln
 145 150 155 160
 Lys Glu Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Gly Met Gln
 165 170 175
 Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu Val Glu
 180 185 190
 Ser Ser Asp Thr Ile Asp Asn Val Lys Ser Lys Ile Gln Asp Lys Glu
 195 200 205
 Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys Gln Leu
 210 215 220
 Glu Asp Gly Arg Thr Pro Ser Asp Tyr Asn Ile Gln Lys Glu Ser Thr
 225 230 235 240
 Leu His Leu Val Leu Arg Leu Arg Gly Gly Cys
 245 250

<210> 31316

<211> 107

<212> PRT

<213> A.fumigatus

<400> 31316

Leu Thr Asp Leu His Ala Thr Thr Lys Thr Glu Asn Gln Val Gln Ser
 1 5 10 15
 Arg Phe Leu Leu Asp Val Ile Ile Gly Lys Ser Ala Ala Ile Leu Glu
 20 25 30
 Leu Leu Ala Ser Glu Asn Gln Ala Leu Leu Val Arg Arg Asp Thr Leu
 35 40 45
 Leu Ile Leu Asn Leu Arg Leu Asp Ile Val Asn Ser Val Ala Gly Leu
 50 55 60
 Asp Leu Gln Gly Asp Gly Leu Ala Arg Glu Ser Leu Asp Glu Asn Leu
 65 70 75 80
 His Gly Glu Asp Asp Val Lys Ser Phe Ser Leu Phe Val Glu Arg Met
 85 90 95
 Met Thr Glu Tyr Ser Ala Val Gly Gly Ser Tyr
 100 105

<210> 31317

<211> 140

<212> PRT

<213> A.fumigatus

<400> 31317

Lys Gln Thr Phe Ser His Leu Ala Ser Thr Thr Gln Thr Gln His Gln
 1 5 10 15
 Val Glu Arg Ala Leu Leu Leu Asn Ile Val Ile Gly Gly Gly Pro Pro
 20 25 30
 Ile Phe Gln Leu Leu Thr Ser Glu Asp Glu Thr Leu Leu Val Arg Arg
 35 40 45
 Asp Ala Leu Leu Val Leu Asp Leu Ala Leu His Val Val Asn Arg Val
 50 55 60
 Gly Gly Leu His Leu Gln Gly Asn Gly Leu Ser Gly Glu Ser Leu Asp
 65 70 75 80
 Glu Asp Leu His Ala Thr Thr Gln Thr Glu Asp Gln Met Gln Cys Gly
 85 90 95
 Phe Leu Leu Asp Ile Val Ile Arg Gln Gly Thr Ala Ile Phe Lys Leu
 100 105 110

12060

Leu Ser Ser Lys Asp Glu Thr Leu Leu Ile Arg Arg Asp Thr Leu Leu
 115 120 125
 Ile Leu Asp Leu Ala Leu Asp Ile Val Asp Gly Val
 130 135 140

<210> 31318
 <211> 230
 <212> PRT
 <213> A.fumigatus

<400> 31318
 Ala Pro Phe Pro Gln Arg Val Val Ile Thr Arg Ser Gly Phe Pro Lys
 1 5 10 15
 Phe Tyr Ser Asn Gly Leu Tyr Phe Glu Leu Ala Thr Thr Thr Glu Gly
 20 25 30
 Phe Ile Asp Lys Trp Leu Trp Lys Leu Phe Arg Arg Phe Leu Thr Tyr
 35 40 45
 Val Phe Leu Lys Phe Ser Glu Arg Ser Ile Cys Leu Thr Trp His Arg
 50 55 60
 Phe Pro Met Pro Thr Ile Cys Leu Leu Asn Gly His Ala Phe Ala Gly
 65 70 75 80
 Gly Leu Met Leu Ala Met Tyr His Asp Tyr Arg Ile Gln Asn Pro Thr
 85 90 95
 Lys Gly Phe Leu Cys Ile Asn Glu Leu Glu Phe Gly Val Pro Leu Gln
 100 105 110
 Ser Pro Met Met Ser Ile Phe Arg Glu Lys Leu Ser Pro Ser Ala Phe
 115 120 125
 Arg Asp Leu Ile Leu Glu Ala Arg Arg Phe Ala Gly Pro Gln Ser Val
 130 135 140
 Ala Val Gly Leu Val Asp Gly Val Gly Gly Leu Glu Glu Thr Leu Gln
 145 150 155 160
 Leu Ile Arg Glu Arg Gly Leu Gln Thr Lys Ala Ala Thr Gly Ile Tyr
 165 170 175
 Gly Thr Met Lys Glu Glu Met Tyr Arg His Thr Leu Asp Ile Leu Asp
 180 185 190
 Asn His Ala Gly Asn Leu Ala Trp Arg Glu Gln Val Glu Glu Lys Lys
 195 200 205
 Gly Thr Arg Glu Glu Ala Ala Leu Arg Ala Val Glu Ala Phe Glu Lys
 210 215 220
 Gln Arg Asn Ala Lys Leu
 225 230

<210> 31319
 <211> 116
 <212> PRT
 <213> A.fumigatus

<400> 31319
 Ser Pro Thr His Phe Ser Ala Ser Ile Val Arg Leu Leu Leu Thr Ser
 1 5 10 15
 Phe Ile Gln Ala Pro His Pro Pro Arg Met Met Ile Leu Ser Ala Phe
 20 25 30
 Ile Leu Leu Leu Thr Leu Val Thr Ala Leu Ala Pro Ala Tyr Asp Phe
 35 40 45
 Ile Ile Val Gly Gly Gly Val Ser Gly Leu Val Val Ala Asn Arg Leu
 50 55 60

12061

Ser Glu Asp Pro Asn Val Ser Val Leu Ile Ile Glu Ala Gly Pro Ser
 65 70 75 80
 Val Leu Asp Asn Glu Asn Val Thr Asp Val Asp Ala Tyr Ser Arg Ala
 85 90 95
 Phe Gly Thr Glu Ile Asp Trp Gln Phe Ile Ser Glu Ser Gln Leu Phe
 100 105 110
 Gly Gly Glu Pro
 115

<210> 31320

<211> 237

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (212)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31320

Ile Leu Arg Ala Gly Arg Ala Leu Gly Gly Gly Ser Ala Ile Asn Gly
 1 5 10 15
 Glu Ser Ser Pro Ser Gly Tyr Gly Tyr Glu Tyr Ala Glu Glu Leu Arg
 20 25 30
 Leu Arg Leu Gly Met Ala Tyr Val Arg Ala Glu Asp Val Gln Leu Asp
 35 40 45
 Ala Trp Gln Ser Ile Gly Asn Glu Arg Trp Asn Trp Thr Ser Leu Phe
 50 55 60
 Pro Tyr Tyr Leu Lys Ser Glu Asn Leu Thr Leu Pro Thr Ala Val Gln
 65 70 75 80
 Thr Asp Ala Gly Ala Thr Tyr Asp Ala Phe Ala His Gly Ser Arg Gly
 85 90 95
 Pro Leu Lys Val Ala Phe Pro Arg Met Gln Ser Gly Asp Asn Asp Leu
 100 105 110
 Thr Pro Ala Val Asn Gln Thr Leu Gln Ala Ala Gly Ile Pro Trp Asn
 115 120 125
 Val Asp Val Asn Ala Gly Arg Met Arg Gly Phe Ser Ile Tyr Pro Trp
 130 135 140
 Thr Ile Asp Glu Glu Ala Tyr Ile Arg Tyr Asp Ala Ala Arg Ala Tyr
 145 150 155 160
 Phe Trp Pro Phe Gln Ser Arg Ser Asn Leu His Ala Trp Leu Asn Thr
 165 170 175
 Arg Val Asn Arg Ile Val Trp Arg Asp Val Pro Gly Gly Glu Asn Thr
 180 185 190
 Arg Ala Ser Gly Val Asp Val Thr Ser Gln His Gly Thr Val Ser Val
 195 200 205
 Val Met Ser Xaa Arg Glu Val Ile Leu Ser Ala Gly Ala Leu Lys Ser
 210 215 220
 Pro Ala Ile Leu Glu Leu Ser Gly Ile Gly Asn Pro Arg
 225 230 235

<210> 31321

<211> 282

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (202), (221)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31321

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Val Ala Ser Arg Ser Tyr Ile Arg Asp Lys Arg Ala Gly Ala Glu Ala
1           5           10           15
Leu Lys Leu Pro Tyr Ser Ile Leu Asn Gln His Asn Ile Pro Val His
           20           25           30
Val Ser Leu Pro Gly Val Gly Glu Asn Leu Gln Asp Gln Met Asn Thr
           35           40           45
Leu Met Thr Ala Ser Thr His Ser Pro Ile Thr Gly Gly Arg Thr Val
           50           55           60
Thr Phe Ala Ser Ala Thr Asp Ile Phe Ser Gln Asp Ile Ser Ser Leu
65           70           75           80
Ala Asn Leu Thr His Thr Lys Leu Pro Ser Tyr Ala Ala Leu Val Ala
           85           90           95
Asn Met Ser Asn Gly Ala Met Gln Pro Glu His Leu Arg Ala Val Phe
           100          105          110
Gln Val Gln His Asp Leu Ile Phe Lys Asn Asn Ile Pro Ile Ala Glu
           115          120          125
Ile Ile Phe Lys Pro Gly Gly Glu Lys Thr Val Asn Ala Gly Phe Trp
           130          135          140
Gly Leu Leu Pro Phe Ala Arg Gly Asn Val His Ile Arg Ser Ser Asp
145          150          155          160
Pro Ala Ala Gln Pro Ala Ile Ser Pro Asn Tyr Gly Leu Leu Asp Trp
           165          170          175
Asp Ile Gln Leu Gln Val Ala Ile Ala Lys Phe Ile Arg Arg Met Phe
           180          185          190
Arg Ser Ala Pro Leu Glu Gly Met Ile Xaa Glu Glu Ser Arg Pro Gly
           195          200          205
Leu Ser Ala Val Pro Gly Asp Ala Ala Asp Glu Val Xaa Gly Asn Trp
           210          215          220
Leu Glu Asp Asn Cys Pro Trp Gly Lys Phe Leu Phe Phe Pro Arg Asp
225          230          235          240
Val Ser Asn Ser Ile Ala Ala Asn Ala Ser Asn Phe Pro Ala Ile Gly
           245          250          255
Pro His Gly Pro Asp Ala Pro Ser Ser Arg Val Glu Ser Ser Thr Ile
           260          265          270
Gly Cys Arg Cys Ser Gly Arg Pro Asn Phe
           275          280

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<210> 31322

<211> 129

<212> PRT

<213> A.fumigatus

<400> 31322

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Leu Lys Ala Ser His Phe Ser Ala Ser Gln Thr Pro Pro Gln Leu Ser
1           5           10           15
Thr Gln Pro Leu Leu Ala Ser Leu Ser Ser Pro Pro Pro Ala Pro Ser
           20           25           30
Thr Gln Gly Tyr Pro His Gly Tyr Pro Arg Cys Pro Ala Tyr Ala Gly
           35           40           45
Thr Ser Pro Pro Ser Ser Cys His Arg Ser Pro Ser Pro Pro Trp Ser

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12063

50 55 60
 Ala Ile Arg Ala Pro Glu Ser Ile Ala Ala Ser Pro Gln Ala Arg Leu
 65 70 75 80
 Arg Arg Pro Pro Ile Pro Gln Gln Gln Thr Val Asp Pro Arg Thr Val
 85 90 95
 Ser Pro Gln Glu Leu Asp Pro Gly Arg Gln Thr Gly Thr Ile Ser Pro
 100 105 110
 Gly Arg Cys Ser Ser Trp Gly Ser Ala Gly Ala Pro Arg Thr Arg Ala
 115 120 125
 Arg

<210> 31323
 <211> 383
 <212> PRT
 <213> A.fumigatus

<400> 31323
 His Leu Ser Cys Cys Gln Pro Leu Leu Val Ser Ala Phe Gly Val Glu
 1 5 10 15
 Tyr Trp Ser Leu Ile Arg Ser Ser Val Val Thr Pro Leu Leu Leu Glu
 20 25 30
 Thr Asn Ser Pro Leu Arg Thr Val Thr Arg Phe Val Ser Glu Ser Ser
 35 40 45
 Leu Trp Cys Pro Ser Arg His Pro Ile Val Phe Arg Ile Tyr Cys Leu
 50 55 60
 Ser Phe Ala Ser Leu Gly Cys Cys Val Pro Leu Gln Leu Leu Gln His
 65 70 75 80
 Phe Gln Thr Gly Leu Leu Glu Asp Thr Arg Tyr Ser Gly Lys Pro Lys
 85 90 95
 Ser Arg Ile Ser Val Ser Leu Val Ala Gln Leu Pro Leu Leu Ser
 100 105 110
 Ser Leu Ser Pro Phe Leu Ile Pro Ser Ile Cys Gln Cys Trp Phe Asn
 115 120 125
 Pro Cys Leu Ser Ala Lys Leu Leu Arg Thr Val Cys Ser Tyr Pro Phe
 130 135 140
 Phe Leu Val Leu Thr Ser Leu Pro Ser Gln Phe Asp Pro Asp Phe Gln
 145 150 155 160
 Thr Pro Leu Ile Leu Asp Glu Ser Leu Asp Phe Ser Asp Pro Glu Glu
 165 170 175
 Ser Arg Phe Ala Gly Ala Phe Ser Asp Gly Leu Leu Ala Lys Ser Glu
 180 185 190
 Pro Phe Leu Ser Met Ser Thr Phe Gln Lys Pro Pro Ser Ala Ala Leu
 195 200 205
 Leu Gly Lys Phe Val Pro Ser Phe Phe Leu Glu His Cys Cys Ser Phe
 210 215 220
 Gly Lys Cys Arg Gln Thr Asp Arg Leu Thr Leu Ser Asp Tyr Asp Ser
 225 230 235 240
 Ala Arg Ser Leu His Asn Gly Ala Ser Tyr Ser Thr Tyr Gly Gln Thr
 245 250 255
 Pro Tyr Val Thr Ala Thr Ser Leu Val Pro Ser Pro Met Ala Asp Gln
 260 265 270
 Ala Ser Gln Ile Ser Asp Cys Gly Pro Tyr Leu Pro Asn Gln Glu Tyr
 275 280 285
 Ala Ser Ser Tyr Glu Glu Ser Arg Ser Pro Met Leu Gly Ala Glu Ser
 290 295 300

12064

Arg Gln Leu Pro Glu Val Val Ser Tyr Asn Pro Gln Arg Gly Ser Glu
 305 310 315 320
 Gly Thr Arg Val Phe Val Gln Ile Gln Cys Pro His Asp Leu His Ser
 325 330 335
 Ser Pro Tyr Ala Thr Leu Tyr Leu Ala Phe Gly Ser Lys Lys Cys Glu
 340 345 350
 Cys Leu Pro His Phe Leu Gly Leu Gln Gly Ser Ser Phe Gln Asn Ala
 355 360 365
 Leu Ser Val Asp Thr Pro Ala Phe Leu Ala Thr Gly Ile Pro Val
 370 375 380

<210> 31324

<211> 204

<212> PRT

<213> A.fumigatus

<400> 31324

Pro Pro Asp Gln Trp Pro Glu Asp Pro Gln Ala Leu His Ala Leu Asp
 1 5 10 15
 His Pro Trp Arg His Leu Pro Glu Pro Pro Trp Cys Lys Ser Val Cys
 20 25 30
 Pro Cys Ser Tyr Arg Arg Lys Leu Ile Pro Arg Gln Leu Ala Pro Leu
 35 40 45
 Cys Gln Tyr Ser Ala Gln Asp Gly His Met Thr Asp Tyr His Ile Ala
 50 55 60
 His Leu Gly Gly Ile Ala Gln Arg Gly Pro Gly Leu Met Leu Ile Glu
 65 70 75 80
 Ala Thr Ala Val Gln Pro Glu Gly Arg Ile Thr Pro Gln Asp Val Gly
 85 90 95
 Leu Trp Lys Asp Ser Gln Ile Ala Pro Met Arg Arg Val Ile Asp Phe
 100 105 110
 Val His Ser Gln Gly Gln Lys Ile Gly Val Gln Leu Ala His Ala Gly
 115 120 125
 Arg Lys Ala Thr Thr Val Ala Pro Trp Ile Ser Phe Ser Ala Ile Ala
 130 135 140
 Thr Glu Lys Val Gly Gly Trp Pro Asp Arg Val Lys Gly Pro Gly Asp
 145 150 155 160
 Ile Pro Phe Ala Glu Pro Phe Ala Lys Pro Lys Ala Met Thr Leu Asp
 165 170 175
 Glu Ile Glu Gln Phe Lys Lys Asp Trp Val Ala Ala Thr Lys Arg Ala
 180 185 190
 Ile Ala Ala Gly Ala Asp Phe Val Glu Ile His Asn
 195 200

<210> 31325

<211> 91

<212> PRT

<213> A.fumigatus

<400> 31325

Arg Ser Pro His Arg Gly Val Ser Tyr Gln Pro Ile Asn Asn His Pro
 1 5 10 15
 Gln Ser Pro Thr Thr Lys Met Thr Val Ala Asp Ile Asp Val Pro Pro
 20 25 30
 Ala Glu Gly Ile Pro Tyr Phe Thr Pro Ala Gln Asn Pro Pro Ala Gly
 35 40 45

12065

Thr Ala Ala Asn Pro Gln Thr Asn Gly Gln Lys Ile Pro Lys Leu Phe
 50 55 60
 Thr Pro Leu Thr Ile Arg Gly Val Thr Phe Gln Asn Arg Leu Gly Val
 65 70 75 80
 Ser Pro Phe Ala Leu Ala His Ile Asp Glu Ser
 85 90

<210> 31326
 <211> 85
 <212> PRT
 <213> A.fumigatus

<400> 31326
 Leu Phe Gly Tyr Ile Arg Tyr Ala Ile Gly Phe Ser Asp Leu Glu Val
 1 5 10 15
 Val Met Lys Arg Leu Val Asp Glu Gly Lys Tyr Ala Asp Met Thr Ile
 20 25 30
 Ala Cys Leu Gly Arg Glu Ile Gln Arg Pro Arg Val Val Lys Glu Leu
 35 40 45
 Thr Asn Pro Lys Ser Trp Arg Val Met His Phe Ser Arg Trp Thr Lys
 50 55 60
 Val Arg Ile Leu Leu Pro Tyr Val Asn Tyr Lys Val Lys Ser Leu Cys
 65 70 75 80
 Thr Leu Gln Lys Ser
 85

<210> 31327
 <211> 95
 <212> PRT
 <213> A.fumigatus

<400> 31327
 Glu Trp Phe Glu Thr His Cys Ile Trp Val Ile Glu Trp Pro Asp His
 1 5 10 15
 Leu Pro Asn Leu Asn Leu Ile Lys His Leu Trp Asn Leu Ser Lys Lys
 20 25 30
 Lys Pro Leu Gln Leu Tyr Pro Glu Leu Phe Leu Gly Gly Arg Ser Lys
 35 40 45
 Ile Asp Trp Thr Cys Phe Cys Asn Ala Ile Ile Glu Ala Trp Glu Ala
 50 55 60
 Lys Pro Ile Pro Gln Val Ile Asn Gly Leu Ile Tyr Ser Met Pro His
 65 70 75 80
 Arg Leu Arg Ala Asp Ser Gln Ala Arg Ala Trp Ser Thr Asn Tyr
 85 90 95

<210> 31328
 <211> 85
 <212> PRT
 <213> A.fumigatus

<400> 31328
 Tyr Thr Arg Ile Ile Ile Ile Asn Tyr Cys Met Thr Leu Gln Met Glu
 1 5 10 15
 Ala Pro Thr Arg Val Asn Leu Asn Asn Gly Arg Arg Ser Thr Thr Ala
 20 25 30
 Val Arg Leu His Tyr Ile Glu Asp Asp Lys Lys Arg Asn Gln Ala Gly

35 40 45
 Thr Thr Ala Ile Gln Ser Gln Asn Ile Glu Gln Ile Val Ala Phe Ser
 50 55 60
 Ile Lys Ile Leu Ile Tyr Arg Arg Leu Ser Glu Pro Glu Pro Asn Ile
 65 70 75 80
 Val Ile Glu Ser Gly
 85

<210> 31329

<211> 84

<212> PRT

<213> A.fumigatus

<400> 31329

Val Glu Thr His Ser Leu His Gly Pro Phe Gln Pro Arg Gly Glu Asp
 1 5 10 15
 Ala Gln Leu Leu Met Thr Gln Asp Pro Phe Ile Ile Ser Gly Ser Lys
 20 25 30
 Val Leu Glu Gly Met Gly Thr Tyr Leu Val Thr Ser Val Gly Pro His
 35 40 45
 Ser Thr Tyr Gly Arg Ile Met Val Ser Leu Gly Thr Glu Ser Ala Pro
 50 55 60
 Thr Pro Leu Gln Val Lys Leu Gly Lys Leu Ala Asn Trp Ile Gly Trp
 65 70 75 80
 Phe Gly Leu Gly

<210> 31330

<211> 160

<212> PRT

<213> A.fumigatus

<400> 31330

Val Ser Ile Thr Thr His Thr Glu Val Gly Thr Tyr Arg Thr Gly Asp
 1 5 10 15
 Asn Ile His Thr Ala Leu Ser Ile Ala Ile Ser Cys Gly Ile Lys Thr
 20 25 30
 Glu Asp Gly Ile Ala Met Glu Gly Pro Asp Leu Arg Gln Leu Thr Glu
 35 40 45
 Ala Gln Leu Lys Thr Ile Ile Pro Arg Leu Gln Val Leu Ala Arg Ser
 50 55 60
 Ser Pro Ser Asp Lys Gln Leu Leu Val Glu His Leu Lys Gln Leu Gly
 65 70 75 80
 Glu Thr Val Ala Val Thr Gly Asp Gly Thr Asn Asp Gly Pro Ala Leu
 85 90 95
 Lys Ala Ala Asp Val Gly Phe Ser Met Gly Leu Ser Gly Thr Glu Val
 100 105 110
 Ala Arg Glu Ala Ser Ser Ile Ile Leu Leu Asp Asp Asn Phe Arg Ser
 115 120 125
 Ile Val Thr Ala Ile Ala Trp Gly Arg Cys Val Asn Asp Ala Val Ala
 130 135 140
 Lys Phe Leu Gln Val Cys Cys Val Cys Phe Ser Arg Arg Pro Cys Gly
 145 150 155 160

<210> 31331

<211> 345

<212> PRT

<213> A.fumigatus

<400> 31331

Cys Leu Thr Glu Gly Leu Pro Leu Ala Val Thr Leu Ala Leu Ala Phe
 1 5 10 15
 Ala Thr Ala Arg Met Leu Lys Glu Asn Asn Leu Val Arg Gln Leu Arg
 20 25 30
 Ala Cys Glu Thr Met Gly Asn Ala Thr Val Ile Cys Ser Asp Lys Thr
 35 40 45
 Gly Thr Leu Thr Gln Asn Arg Met Thr Val Val Ala Gly Phe Leu Ser
 50 55 60
 Pro Ser Glu Ser Phe Gly Gln Leu Pro Leu Glu Thr Ala Ser Gln Pro
 65 70 75 80
 Gln His Asp Asp Ile Ser Gly Val Thr Gln Arg Tyr Pro Ala Ala Leu
 85 90 95
 Lys Ala Leu Leu Val Lys Ser Leu Val Val Asn Ser Thr Ala Phe Glu
 100 105 110
 Glu Leu Arg Glu Asn Glu Thr Val Leu Val Gly Asn Asn Thr Glu Ile
 115 120 125
 Ala Leu Leu Arg Phe Ala Gln Thr Ala Leu Asp Val Arg Asp Val Ser
 130 135 140
 Thr Glu Arg Glu Arg Thr Asp Ile Glu Gln Val Tyr Pro Phe Asp Ser
 145 150 155 160
 Ala Arg Lys Ala Met Ala Val Val Tyr Arg Leu Gly Thr Gly His Arg
 165 170 175
 Leu Leu Val Lys Gly Ala Ala Glu Val Val Leu Gly Ala Cys Thr Glu
 180 185 190
 Ser Thr Leu Pro Gly Leu Ser Asp Lys Thr Ser Leu Ala Arg Ala Gln
 195 200 205
 Met Ser Cys Glu Asp Arg Arg Thr Ile His Asp Gln Ile Asp Ile Phe
 210 215 220
 Ser Arg Ala Ser Leu Arg Thr Ile Ala Ile Ala Tyr Arg Glu Leu Pro
 225 230 235 240
 Ala Trp Asn Ser Glu Gln Ala Gly Asp Asn Ala Lys Val Ser Pro Asp
 245 250 255
 Phe Asp Ala Leu Phe Asn Asn Leu Thr Trp Ile Gly Ala Phe Gly Ile
 260 265 270
 His Asp Pro Leu Arg Pro Glu Val Pro Glu Ala Ile Arg Thr Cys His
 275 280 285
 Thr Ala Gly Val Gln Val Lys Met Val Thr Gly Glu Cys Pro Leu Pro
 290 295 300
 His Thr Arg Arg Ser Glu Leu Thr Ala Gln Val Thr Thr Ser Thr Arg
 305 310 315 320
 Arg Tyr Pro Ser Pro Ser Pro Ala Gly Ser Arg Arg Arg Thr Ala Ser
 325 330 335
 Gln Trp Lys Asp Pro Thr Phe Gly Ser
 340 345

<210> 31332

<211> 157

<212> PRT

<213> A.fumigatus

<400> 31332

Arg Gln Leu Ser Ile Asp Cys His Gly His Arg Leu Gly Pro Val Cys

12068

```

1           5           10           15
Gln Arg Cys Cys Arg Gln Val Ser Ala Gly Val Leu Arg Leu Leu Leu
          20          25          30
Ser Pro Ser Met Trp Leu Thr Gln Pro Val Ser Asn His Gly Gln His
          35          40          45
His Cys Arg Leu Phe Asp Cys Arg Asp Gly His Leu Gln Gln Leu Gln
          50          55          60
Arg Lys Cys Leu Gln Gly Gly Pro Val Ala Met Ala Glu Ser Asn Asn
65          70          75          80
Gly His Leu Cys Arg Ser Gly Leu Val Arg Pro Pro Asp Cys Lys Pro
          85          90          95
Pro Trp His Glu Ser Thr Asn Ile Pro Arg Gly Pro Arg Ala Thr Asp
          100         105         110
Pro Pro Thr Ala Asp Ile Leu Gln Arg Pro Pro Arg Pro Arg Ser Ala
          115         120         125
Pro Leu Phe Thr Val Thr Met Trp Lys Leu Met Leu Gly Gln Ser Ile
          130         135         140
Cys Leu His Thr Gly Leu Glu Gly Ser Ala Val Ala Gln
145          150          155

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<210> 31333
 <211> 165
 <212> PRT
 <213> A.fumigatus

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<400> 31333
Arg Arg Val Asp Val Val Thr Cys Ala Val Ser Ser Asp Leu Arg Val
1           5           10           15
Cys Gly Asn Gly His Ser Pro Val Thr Ile Leu Thr Trp Thr Pro Ala
          20          25          30
Val Trp His Val Arg Met Ala Ser Gly Thr Ser Gly Leu Ser Gly Ser
          35          40          45
Trp Met Pro Asn Ala Pro Ile Gln Val Arg Leu Leu Asn Lys Ala Ser
          50          55          60
Lys Ser Gly Glu Thr Phe Ala Leu Ser Pro Ala Cys Ser Glu Phe Gln
65          70          75          80
Ala Gly Ser Ser Arg Tyr Ala Ile Ala Ile Val Arg Asn Glu Ala Arg
          85          90          95
Glu Lys Ile Ser Ile Trp Ser Trp Ile Val Arg Leu Ser Ser His Asp
          100         105         110
Ile Cys Ala Leu Ala Asn Asp Val Leu Ser Asp Ser Pro Gly Ser Val
          115         120         125
Asp Ser Val Gln Ala Pro Arg Thr Thr Ser Ala Ala Pro Leu Thr Ser
          130         135         140
Ser Arg Cys Pro Val Pro Lys Arg Tyr Thr Thr Ala Ile Ala Phe Arg
145          150          155          160
Ala Glu Ser Asn Gly
          165

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<210> 31334
 <211> 168
 <212> PRT
 <213> A.fumigatus

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<400> 31334
Asp Ala Val Ser Ser Gly Ser Trp Pro Asn Asp Ser Leu Gly Leu Arg

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12069

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1           5           10           15
Lys Pro Ala Thr Thr Val Ile Leu Phe Cys Val Arg Val Pro Val Leu
                20                25                30
Ser Glu His Ile Thr Val Ala Phe Pro Ile Val Ser Gln Ala Arg Ser
                35                40                45
Cys Arg Thr Arg Leu Phe Ser Leu Ser Ile Arg Ala Val Ala Asn Ala
                50                55                60
Arg Ala Arg Val Thr Ala Arg Gly Ser Pro Ser Val Arg His Gln Gln
65                70                75                80
Ser Gly Ser Arg Arg Asp Gly Lys Arg Val Gln Thr Arg Asn Cys Asn
                85                90                95
His Asp His Cys His Arg Tyr Tyr Glu Asn Ile His Lys Leu Leu Ser
                100                105                110
Phe Tyr Ser Gly Arg Arg Ile Val Ile Trp Lys Leu Ser Gln Glu Ala
                115                120                125
Glu Glu Glu His Glu Glu Glu Lys Ser Arg Pro Ala Leu Ala Val
130                135                140
Ser Tyr Tyr Pro Ala Arg Ser Ser Leu Phe Lys Gly Tyr Leu Pro Gln
145                150                155                160
Ser Lys Pro Ala Asp Pro Val Arg
                165

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<210> 31335
 <211> 153
 <212> PRT
 <213> A.fumigatus

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<400> 31335
Asn Trp Leu Cys Gln Pro His Gly Arg Arg Glu Lys Gln Thr Gln His
1           5           10           15
Thr Cys Arg Asn Leu Ala Thr Ala Ser Leu Thr His Arg Pro Gln Ala
                20                25                30
Met Ala Val Thr Ile Asp Arg Lys Leu Ser Ser Arg Arg Ile Ile Glu
                35                40                45
Leu Ala Ser Arg Ala Thr Ser Val Pro Leu Arg Pro Ile Glu Asn Pro
50                55                60
Thr Ser Ala Ala Leu Arg Ala Gly Pro Ser Leu Val Pro Ser Pro Val
65                70                75                80
Thr Ala Thr Val Ser Pro Ser Cys Leu Arg Cys Ser Thr Arg Ser Cys
                85                90                95
Leu Ser Leu Gly Glu Glu Arg Ala Arg Thr Trp Ser Arg Gly Met Ile
                100                105                110
Val Phe Asn Cys Ala Ser Val Ser Cys Arg Arg Ser Gly Pro Ser Ile
                115                120                125
Ala Met Pro Ser Ser Val Leu Ile Pro Gln Glu Met Ala Met Asp Asn
130                135                140
Ala Val Trp Met Leu Ser Pro Val Arg
145                150

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<210> 31336
 <211> 75
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE

<222> (7), (12), (24), (40), (41), (49), (51), (58), (59), (75)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31336

Pro	Asp	Tyr	Pro	Lys	Arg	Xaa	Glu	Val	Val	Gln	Xaa	Ala	Pro	Lys	Ala
1				5				10					15		
Ser	Ser	Phe	Pro	Lys	Glu	Pro	Xaa	Asp	Arg	Val	Phe	Pro	Tyr	Pro	Ala
			20				25				30				
Glu	Leu	Ser	Ser	Cys	Val	Ser	Xaa	Xaa	Asp	Pro	Pro	Glu	Thr	Phe	Asn
		35					40				45				
Xaa	Asn	Xaa	Pro	Ser	Ser	Thr	Gln	Cys	Xaa	Xaa	Ser	His	His	Pro	Pro
	50					55					60				
Ser	Pro	Leu	Met	Ser	Thr	Pro	Ser	Pro	Arg	Xaa					
65					70				75						

<210> 31337

<211> 271

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (3)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31337

Pro	Glu	Xaa	Gln	Cys	Arg	Thr	Ala	Ser	Ser	Arg	Arg	Asn	Ala	Pro	Lys
1				5				10					15		
Ile	Pro	Glu	Pro	Tyr	Arg	Ser	Gln	Thr	Asn	Asn	Val	Glu	Thr	Val	Tyr
			20				25				30				
Thr	Leu	Asp	Leu	Ile	Ser	Thr	Asp	Pro	Pro	Ser	Arg	Leu	His	Ala	Thr
		35				40					45				
Pro	Pro	Pro	Leu	Asp	Arg	Pro	Val	Glu	Pro	His	Arg	Thr	Asn	Ala	Thr
	50					55					60				
Leu	Leu	Thr	Pro	His	Gly	Ser	Ser	Leu	Val	Ala	Tyr	Pro	Pro	Gly	Ser
65					70				75					80	
Glu	Ser	Leu	Ser	Pro	Ser	Lys	Thr	Gly	Arg	Pro	Arg	Pro	Thr	Ala	Thr
			85				90				95				
Thr	Gly	Thr	Leu	Leu	Glu	Lys	Ala	Val	Ala	His	Leu	Ile	Ala	Thr	Asp
			100				105				110				
Ala	Arg	Leu	Glu	Pro	Leu	Ile	Arg	Arg	His	Pro	Cys	Pro	Leu	Phe	Ser
		115				120					125				
Pro	Glu	Gly	Leu	Ala	Glu	Glu	Ile	Asp	Pro	Phe	Arg	Ser	Leu	Val	Ser
		130				135					140				
Ser	Ile	Ile	Gly	Gln	Gln	Val	Ser	Gly	Ala	Ala	Ala	Arg	Ser	Ile	Lys
145					150				155					160	
Asp	Lys	Phe	Val	Ala	Leu	Phe	Asn	Lys	Asp	Asn	Glu	Gly	Gln	Asp	Pro
			165				170				175				
Ala	Lys	Pro	Pro	Arg	Phe	Pro	Thr	Pro	Glu	Glu	Val	Val	Gln	Cys	Asp
			180				185				190				
Leu	Ala	Thr	Leu	Arg	Thr	Ala	Gly	Leu	Ser	Gln	Arg	Lys	Ala	Glu	Tyr
		195				200					205				
Ile	His	Gly	Leu	Ser	Gln	Lys	Phe	Ala	Thr	Gly	Glu	Leu	Ser	Ala	Arg
	210					215				220					
Met	Leu	Leu	Asn	Ala	Ser	Asp	Glu	Glu	Leu	Val	Glu	Lys	Leu	Thr	Ala
225					230				235					240	

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<210> 31338
<211> 79
<212> PRT
<213> A.fumigatus
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<400> 31338

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<210> 31339
<211> 314
<212> PRT
<213> A.fumigatus
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Tyr	Asn	Met	Val	Met	Leu	Thr	Phe	Gly	Arg	Phe	Leu	Ser	Arg	Ser	Tyr
1				5					10					15	
Pro	His	Ser	Arg	Glu	Gly	Pro	Thr	Ile	Leu	Ser	Phe	Arg	Gln	Gln	Leu
			20					25					30		
Ile	Met	Glu	Gly	Thr	Gly	Leu	Asp	Asp	Asp	Gln	Asp	Arg	Arg	Thr	Asn
		35					40					45			
Gln	Met	Thr	Gly	Val	His	Asp	Ser	Pro	Val	Leu	Gln	Pro	Ala	Ser	Met
	50					55					60				
Glu	Asp	Met	Asp	Ala	Phe	Tyr	Asp	Thr	Asp	Glu	Tyr	Ala	Asp	Ser	Ser
65					70					75					80
Asn	Arg	Ser	Tyr	Ser	Pro	Pro	Ala	Ser	Pro	Pro	Arg	Leu	Ser	Arg	Asn
			85						90					95	
Pro	Ser	Phe	Ser	Tyr	Gln	Asp	Asp	Trp	Glu	Thr	Phe	Pro	Pro	Leu	Asp
			100					105					110		
Lys	Leu	Thr	Val	Phe	Asp	Leu	Leu	Asp	Asn	Phe	Ser	Leu	Ser	Gln	Lys
	115						120					125			
Leu	Glu	Lys	Trp	Gln	Gln	Ala	Ile	Asn	Val	Gln	Arg	Glu	Lys	Val	Arg
	130					135					140				
Lys	Gln	Arg	Glu	Lys	Leu	Lys	Ser	Thr	Ser	Met	Asn	Ala	Lys	Asp	Arg
145					150					155					160
Val	Val	Gly	Glu	Trp	Lys	Arg	Arg	Val	Pro	Thr	Ala	Asp	Glu	Gln	Leu
			165						170					175	
Ala	Lys	Tyr	Arg	Arg	Arg	Met	Ser	Asp	Gly	Val	Lys	Arg	Leu	Glu	Lys

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<210> 31340
<211> 268
<212> PRT
<213> A.fumigatus
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<400> 31340																
Val	Pro	Leu	Arg	Asn	Phe	Pro	Ala	Lys	Asp	His	Ser	Leu	Thr	Cys	Leu	
1				5					10					15		
Met	Arg	Ser	Leu	Phe	Ile	His	Ile	Met	Pro	Pro	Val	Thr	Leu	His	Cys	
			20					25					30			
Leu	Val	His	Leu	Thr	Pro	Ala	Glu	Val	Leu	Arg	Glu	Arg	Phe	Pro	Ala	
		35					40					45				
Val	Tyr	Asp	Ile	Lys	Phe	Ser	Lys	Pro	Gly	Ser	Ser	Asn	His	Tyr	Ser	
	50					55				60						
Leu	Leu	Ser	Met	Met	Leu	Trp	Ala	Thr	Val	Pro	Tyr	Met	Phe	Trp	Gln	
65				70						75					80	
Leu	Thr	Tyr	His	Phe	Ile	Thr	Val	Arg	Arg	Ala	Glu	Lys	Ile	Ala		
			85					90					95			
Ala	Gly	Arg	Pro	Thr	Ser	Phe	Thr	Trp	Leu	Arg	Lys	Ser	Tyr	Ala	Lys	
			100					105					110			
Thr	Trp	Ile	Gly	Lys	Phe	Val	Ile	Ser	Leu	Pro	Glu	Ser	Leu	Gln	Ser	
		115					120					125				
Pro	Ala	Phe	Met	Met	Ile	Gln	Tyr	Ile	Tyr	Ala	Leu	Leu	Thr	Met	Ile	
	130					135					140					
Pro	Cys	Pro	Leu	Trp	Phe	Arg	Phe	Arg	Trp	Ala	Ser	Gly	Val	Phe	Leu	
145				150						155					160	
Thr	Ala	Leu	Phe	Val	Leu	Ser	Ile	His	Asn	Gly	Ala	Thr	Tyr	Tyr	Ile	
			165						170					175		
Asp	Ile	Phe	Gly	Lys	Arg	Phe	Gln	Lys	Glu	Leu	Glu	Glu	Leu	Lys	Lys	
		180						185					190			
Asp	Val	Ala	Arg	Trp	Gln	Gly	Ser	Pro	Ala	Gly	Thr	Thr	Ser	Ser	Thr	
	195						200					205				
Leu	Pro	Ile	Leu	Asn	Asn	Ala	Ser	Ser	Ala	Gly	Ala	Gly	Ile	Leu	Glu	
	210					215					220					
Asp	Ser	Ala	Ser	Val	His	Lys	Asp	Ser	Asp	Lys	Ser	Ser	Leu	Asp	Lys	
225				230						235					240	
Ile	Pro	Pro	Leu	Asp	Ser	Ser	Ala	Ala	Ser	Thr	Ala	Ile	Asp	Gly	Ser	
			245						250					255		

12073

Asn Leu Ala Ala Ala Ala Asn Thr Arg Glu Arg Lys
260 265

<210> 31341
<211> 82
<212> PRT
<213> A.fumigatus

<400> 31341
Ala Met His Asp Ile Thr Leu Asp Pro Leu Leu Leu Gly Asn Leu Thr
1 5 10 15
Gly Lys Thr Ala Val Leu Thr Gly Gly Ala Gly Gly Ile Gly Thr Ala
20 25 30
Ile Ala Lys Leu Leu Leu Glu His Gly Ala Asn Val Val Val Ala Asp
35 40 45
Leu Glu His Thr Arg Pro Ile Val Glu Thr Met Ile Val Asp Leu Pro
50 55 60
Gly Ser Cys Lys Gly Arg Val Gln Phe Val Ala Thr Asn Ile Val Lys
65 70 75 80
Trp Asp

<210> 31342
<211> 196
<212> PRT
<213> A.fumigatus

<400> 31342
Val Thr Ala Leu Phe Gln Ser Ala Lys Glu Arg Phe Gly Ser Ile Glu
1 5 10 15
Leu Val Ile Ala Asn Ala Gly Val Met Glu Arg Thr Pro Val Leu Asp
20 25 30
Met Asp Gln Ile Asp Glu His Gly Asn Leu Glu Glu Ser His Glu Phe
35 40 45
Cys Lys Val Ile Asp Ile Asn Val Lys Gly Thr Met Asn Cys Leu Arg
50 55 60
His Ala Ile Phe Ser Met Lys Gly Asn Gln Pro Cys Tyr Pro Asp Gly
65 70 75 80
Ser Arg Gly Ala Val Val Leu Val Ser Ser Ile Ser Gly Tyr Phe Gly
85 90 95
Gly Thr Gly Val Ser Gly Tyr Ile Thr Ser Lys His Ala Val Thr Gly
100 105 110
Met Leu Arg Gly Ser Gln Leu Val Ala Ser Gln Asp Asp Ile Arg Val
115 120 125
Asn Ala Val Ala Pro Phe Val Thr Pro Thr Ala Met Ala Gly Gly Phe
130 135 140
Ser Glu Ala Trp Gln Ala Lys Gly Leu Pro Ile Asn Thr Thr Glu Gly
145 150 155 160
Val Ala Thr Val Val Leu Thr Leu Ala Val Asn Pro Ala Glu Lys Gly
165 170 175
Ser Cys Tyr Ile Val Trp Arg Ser Ile Trp His Arg Asp Asn Gly Ala
180 185 190
Leu Leu Asp Pro
195

<210> 31343

<211> 102
 <212> PRT
 <213> A.fumigatus

<400> 31343

Lys	Ala	Cys	Pro	Ser	Ile	Pro	Ala	Val	Arg	Thr	Ser	Tyr	Trp	Glu	Asp
1				5					10					15	
Ser	Leu	Arg	Gly	Arg	Trp	Val	Cys	Tyr	Cys	Arg	Thr	Asp	Ile	Asn	Ile
			20					25					30		
Thr	Phe	Leu	Leu	Tyr	Asn	Gly	Asp	Gln	Leu	Asp	Gly	Trp	Ala	Ala	Ala
			35				40					45			
Glu	Ala	Leu	Gly	Asp	Leu	Asn	Gln	Ser	Ala	Leu	Ala	Arg	Thr	Tyr	Arg
			50			55					60				
Leu	His	Gly	Arg	Asn	Asp	Val	Ile	Cys	Glu	Leu	Leu	Glu	Asn	Arg	
65				70					75					80	
Thr	Thr	Ser	Thr	Val	Gln	Leu	Lys	Val	Leu	Arg	Val	Lys	Arg	Ile	Ile
				85				90						95	
Thr	Met	Gly	Ile	Ser	Arg										
															100

<210> 31344
 <211> 107
 <212> PRT
 <213> A.fumigatus

<400> 31344

Ala	Gly	Ala	Pro	Ala	Gly	His	Asp	Gly	Ser	Val	Asp	Ala	Thr	Lys	Tyr
1				5					10					15	
Gly	Pro	Ile	Ser	Pro	Gln	Pro	Pro	Asp	Asn	Ser	Arg	Glu	Ser	Arg	Gln
			20					25					30		
His	Leu	Phe	Val	Gly	Ala	Pro	Ala	Asn	Pro	Lys	Gln	Ser	Glu	Phe	
			35				40				45				
Asp	Cys	Leu	Arg	Leu	Asn	Ile	Tyr	Thr	Pro	Arg	Val	Val	Ile	Ser	Ser
			50			55				60					
Glu	Glu	Lys	Val	Pro	Val	Leu	Val	Trp	Ile	His	Gly	Gly	Gly	Trp	Ala
65				70					75					80	
Ile	Glu	Asn	Gly	Asn	Thr	Asp	Phe	Cys	Glu	Ser	Ile	Ala	Cys	Ser	Leu
			85					90						95	
Cys	Tyr	Arg	Gln	Phe	Ser	Thr	Asn	Gly	Gly	Arg					
			100					105							

<210> 31345
 <211> 143
 <212> PRT
 <213> A.fumigatus

<400> 31345

Gly	Thr	Arg	His	Phe	Arg	Val	Pro	Pro	Pro	Leu	Ala	Lys	Asp	Gly	Lys
1				5					10					15	
Val	Tyr	Cys	Gly	Val	Gln	Met	Ile	Arg	Phe	Gly	His	Gln	Val	Asn	Gly
			20					25					30		
Thr	Trp	Val	Leu	Ser	Ala	Arg	Asp	Gln	Gln	Ile	Leu	Asn	Gly	Ala	Leu
			35				40					45			
Ser	Val	Gly	Val	Phe	Cys	Ala	Ala	Ile	Ile	Thr	Gly	Phe	Leu	Ser	Asp
			50			55				60					
Ala	Tyr	Gly	Arg	Lys	Lys	Ala	Met	Met	Ile	Gly	Ser	Ile	Ile	Cys	Cys

12075

65		70		75		80
Ala Gly Val Met Val Gln Tyr Tyr Ala Thr Ser Ile Leu Met Leu Phe						
	85		90		95	
Gly Gly Lys Leu Val Ala Thr Leu Gly Phe Gly Ile Gly His Ser Val						
	100		105		110	
Ala Pro Val Phe Val Ser Glu Leu Ala Pro Ser Ser Leu Arg Gly Ile						
	115		120		125	
Cys Leu Ala Leu Ile Val Ser Thr Leu Leu Leu Thr Ala Phe Arg						
	130		135		140	

<210> 31346

<211> 390

<212> PRT

<213> A.fumigatus

<400> 31346

Leu Ser Ser Val Asn Asn Ala Ser Ser Met Thr Lys Pro Ser Ile Arg						
1	5		10		15	
Ile Pro Leu Thr Gly Pro Leu Pro Pro Pro Ile Ile Val Pro Pro Ser						
	20		25		30	
Ala Ser Thr Leu Ser Gly Ala Ile Asn Ala Val Leu Ser Phe Phe Thr						
	35		40		45	
Ala Pro Pro Ser Pro Tyr Leu Ser Gly Val Asp Val Gly Arg His Ser						
	50		55		60	
Gln Ala Val Leu Leu Thr Gly Ala Gly Ile Ser Val Ala Ser Gly Leu						
	65		70		75	
Ser Asp Tyr Arg Gly Glu Lys Gly Thr Tyr Val Thr Asn Lys Phe Tyr						
	85		90		95	
Arg Pro Ile Tyr Phe His Glu Phe Leu Ser Arg His Glu Ser Arg Lys						
	100		105		110	
Arg Tyr Trp Ala Arg Ser Phe Val Gly Trp Pro Gly Leu Leu Lys Ala						
	115		120		125	
Glu Pro Asn Ser Thr His Trp Ala Ile Arg Asp Leu Ala Ala Lys Gly						
	130		135		140	
Phe Val Ser Ser Val Val Thr Gln Asn Val Asp Ser Phe His Ser Ile						
	145		150		155	
Ala His Pro Glu Leu Pro Thr Ile Glu Leu His Gly His Leu Lys Ser						
	165		170		175	
Val Val Cys Thr Ser Cys Arg Asn Gln Phe Ser Arg Ala Glu Phe Gln						
	180		185		190	
Lys Ser Leu Glu Arg Leu Asn Pro Ala Trp Ala Glu Phe Leu Ala Arg						
	195		200		205	
Met Val Glu Ala Gly Ala Leu Asp Thr Asn Asn Pro Glu Glu Gln Arg						
	210		215		220	
Arg Lys Gly Phe Lys Leu Asn Pro Asp Gly Asp Val Asp Leu Ala Glu						
	225		230		235	
Ala Pro Tyr Ser Thr Phe Arg Tyr Pro Ser Cys Pro Thr Cys Leu Glu						
	245		250		255	
Asn Pro Pro Arg Leu Lys Asp Gly Thr Leu Ala Arg Val Glu Val Glu						
	260		265		270	
Lys Asp Gly Ala Trp Leu Pro Ser Ser Thr Ala Gly Ile Leu Lys Pro						
	275		280		285	
Ala Val Val Met Phe Gly Glu Asn Ile Asp Pro Gly Val Lys Thr Ala						
	290		295		300	
Ala Glu Glu Ala Ile Asp Asp Ala Gly Arg Leu Leu Ile Leu Gly Ser						
	305		310		315	
						320

Ser Leu Ala Thr Tyr Ser Ala Trp Arg Leu Val Glu Arg Ala His Arg
 325 330 335
 Arg Gly Met Pro Ile Ala Ile Ile Asn Leu Gly Gly Val Arg Asn Glu
 340 345 350
 Ser Val Leu Phe Glu Thr Ser Ser Asp Val Ser Ser Ser His Val Arg
 355 360 365
 Cys Ser Phe Pro Ser Glu Ala Ile Leu Pro Pro Val Val Ser Leu Leu
 370 375 380
 Pro Lys Ser Ile Tyr Gly
 385 390

<210> 31347

<211> 122

<212> PRT

<213> A.fumigatus

<400> 31347

Ala Thr Ala Cys Asp Leu Pro Ser Gln Asp Arg Pro Arg Gly Gly Trp
 1 5 10 15
 Phe Lys Gln Val Ala Ile Arg Ser Pro Pro Ser Met Asp Tyr Arg Asn
 20 25 30
 Ser Tyr Arg Thr Ala Glu Asp Ser Arg Ser Glu Tyr Asn Asn Pro Ala
 35 40 45
 Ser Phe Ser Glu Ile Val Ser Thr Leu Val Ser Pro Lys Ser Phe Leu
 50 55 60
 Phe Asn Asn Gln Arg Pro Lys Pro Ser Thr Gln Gln Thr Ser Ile Thr
 65 70 75 80
 Thr Arg Gly Asn Ile Ser Ser Gln Thr Met Asp Lys Ser Gln Gln Pro
 85 90 95
 Ser Ser Phe Gln Gln Leu Glu Lys Val Cys Glu Thr Ala Ser Ile Thr
 100 105 110
 Ala Trp Lys Val Val Lys Gly Gly Arg Tyr
 115 120

<210> 31348

<211> 126

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (113), (119), (122)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31348

Ser Gln Tyr Pro Gln Val Phe Lys Gly Arg Asn Arg Gln Thr Gly Glu
 1 5 10 15
 Leu Val Ala Leu Lys Glu Ile His Leu Asp Ser Glu Glu Gly Thr Pro
 20 25 30
 Ser Thr Ala Ile Arg Glu Ile Ser Leu Met Lys Glu Leu Lys His Glu
 35 40 45
 Ser Ile Val Ser Leu Tyr Asp Val Ile His Thr Glu Asn Lys Leu Met
 50 55 60
 Leu Val Phe Glu Tyr Met Asp Lys Asp Leu Lys Lys Tyr Met Asp Thr
 65 70 75 80
 Arg Gly Asp Arg Gly Gln Leu Asp His Ala Thr Ile Lys Ser Phe Met

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<210> 31349
<211> 67
<212> PRT
<213> A.fumigatus
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<210> 31350
<211> 439
<212> PRT
<213> A.fumigatus
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<400>	31350																		
Ser	Ser	Cys	Arg	Thr	Ile	Leu	Ile	Gly	Asp	Glu	Glu	Asp	Pro	Ala	Glu				
1				5					10					15					
Phe	Phe	Ser	Met	Ile	Phe	Gly	Gly	Ser	Ala	Phe	Val	Asp	Leu	Ile	Gly				
			20					25					30						
Glu	Ile	Ser	Leu	Met	Lys	Asp	Leu	Thr	Ala	Thr	Met	Asp	Ile	Thr	Met				
		35				40						45							
Gln	Glu	Met	Glu	Glu	Glu	Glu	Leu	Ala	Glu	Ala	Ala	Glu	Glu	Lys	Leu				
	50					55					60								
His	Ile	His	Asp	Glu	Gly	Ser	Lys	Ala	Ala	Ala	Ala	Thr	Gly	Glu	Ala				
65					70					75					80				
Ser	His	Ala	Ala	Gly	Thr	Ala	Ala	Pro	Gly	Pro	Gly	Pro	Val	Pro	Ala				
				85					90					95					
Ala	Ala	Ala	Ala	Ala	Glu	Pro	Ser	Glu	Lys	Pro	Ala	Ser	Thr	Ser	Gly				
			100					105						110					
Ser	Ser	Thr	Pro	Arg	Arg	Tyr	Leu	Gly	Gln	Gln	Ala	Ile	Met	Asp	Lys				
		115					120					125							
Ser	Glu	Glu	Glu	Ala	Arg	Met	Glu	Ala	Ala	Gly	Leu	Ser	Gln	Glu	Glu				
	130					135					140								
Lys	Glu	Leu	Arg	Lys	Lys	Glu	Lys	Lys	Lys	Gly	Leu	Ser	Arg	Glu	Gln				
145				150						155				160					
Gln	Glu	Arg	Leu	Ala	Tyr	Glu	Leu	Glu	Arg	Lys	Lys	Ala	Arg	Glu					
			165					170						175					
Glu	Arg	Val	Asn	Thr	Leu	Ala	Thr	Lys	Leu	Val	Asp	Lys	Leu	Ser	Val				
			180					185					190						
Trp	Thr	Glu	Thr	Asp	Lys	Gly	Pro	Asp	Val	Thr	Arg	Ala	Phe	Glu	Glu				
	195					200						205							
Lys	Ile	Arg	Leu	Glu	Val	Glu	Asn	Leu	Lys	Met	Glu	Ser	Phe	Gly	Leu				

210		215		220
Glu Ile Leu His Ala Ile Gly Ala Thr Tyr Thr Ser Lys Ala Thr Ser				
225		230		240
Phe Ile Lys Ser Gln Lys Phe Leu Gly Ile Ser Gly Phe Phe Ser Arg				
	245		250	255
Leu Lys Asp Lys Gly Thr Leu Ala Lys Glu Thr Trp Thr Thr Ile Ser				
	260		265	270
Thr Ala Ile Asp Ala Gln Met Thr Met Glu Glu Met Ala Lys Leu Glu				
	275		280	285
Glu Lys Gly Gly Glu Asp Trp Thr Asp Glu Lys Lys Ala Glu Tyr Glu				
	290		295	300
Lys Lys Val Thr Gly Lys Ile Leu Ala Ala Ala Trp Arg Gly Ser Lys				
305		310		320
Phe Glu Ile Gln Ser Val Leu Arg Asp Val Cys Asp Gln Val Leu Gly				
	325		330	335
Asp Lys Arg Val Lys Leu Glu Lys Arg Leu Glu Arg Ala His Ala Leu				
	340		345	350
Val Ile Ala Gly Asn Ile Tyr Ser Lys Val Ser Ser Ser Arg Ser Thr				
	355		360	365
Val Thr Met Ser Gln Val Ala Lys Arg Asn Tyr Arg Gln Ser Val Ile				
	370		375	380
Pro Arg Lys Lys Glu Thr Thr Trp Pro Leu Ser Ser Ser Trp Leu Arg				
385		390		400
Pro Cys Arg Arg Arg Ala Arg Thr Arg Arg Lys Arg Arg Arg Lys Ser				
	405		410	415
Arg Arg Met Ser Ile Thr Thr Thr Lys Gln Pro Pro Arg Arg Tyr Leu				
	420		425	430
Val Leu Phe Ile Ser Leu Pro				
	435			

<210> 31351
 <211> 64
 <212> PRT
 <213> A.fumigatus

<400> 31351
 Leu Gln Val Ser Met Val Ala Asp Thr Thr Tyr Tyr Asp Ala Leu Gly
 1 5 10 15
 Val Pro Pro Thr Ala Thr Glu Leu Glu Ile Lys Lys Ala Tyr Arg Lys
 20 25 30
 Leu Ala Ile Val Thr His Pro Gly Ala Ile Thr Pro Met Pro Ala Arg
 35 40 45
 Ile Leu Ala Ile Asp Ser Asp Phe Phe Pro Arg Gln Glu Pro Trp Arg
 50 55 60

<210> 31352
 <211> 74
 <212> PRT
 <213> A.fumigatus

<400> 31352
 Asp Cys Ala Cys Glu Ile Ser Ser Gly Val Tyr Thr Ser Ile Tyr Ala
 1 5 10 15
 Val Gln Tyr Ile Gln Ser Phe Asn Ser Ser Arg His Asp Gln Ile Gly
 20 25 30
 Glu Ala Tyr Gln Val Leu Ser Asn Glu Glu Leu Arg Lys Arg Tyr Asp

12079

35 40 45
 Lys Tyr Gly Lys Glu Glu Ser Val Pro Gly Gly Gly Phe Gly Lys Leu
 50 55 60
 Leu Ser Cys Asp Arg Ala Val Glu Leu Tyr
 65 70

<210> 31353
 <211> 217
 <212> PRT
 <213> A.fumigatus

<400> 31353
 Pro Cys Ile Val Trp Thr Val Ser Asp Leu Gln Glu Phe Met Ile Ser
 1 5 10 15
 Thr Phe Pro Pro Glu Leu Ala Ser Cys Val Arg Glu Ala Ala Pro Ile
 20 25 30
 Leu His Arg Cys Leu Val Arg Leu Gly Ser Phe Pro Tyr His Asn Asp
 35 40 45
 Pro Gln Arg Thr Leu Leu Gln Asp Val Leu Arg Thr Gly Met Ile Ile
 50 55 60
 Leu Leu Arg Leu Asn Gly Gly Lys Leu Leu Glu Gln Asp Asp Gly Lys
 65 70 75 80
 Ala Ser Leu Ile Tyr Pro Asp Arg Leu Asn Ala Ala Gln Arg Thr Leu
 85 90 95
 Leu Phe Gln Ser Met Ala Asp Met Gln Ala Ala Asn Thr Asn Thr Pro
 100 105 110
 Arg Asn Ala Glu Asp Asp Phe His Leu Gln Arg Ala Leu Asp Leu Ile
 115 120 125
 Thr Tyr Gly Asn Phe Ser Arg Asn Pro Leu Phe Pro Thr Ala Val Thr
 130 135 140
 Lys Gly Pro Glu Tyr Pro Pro Ala Glu His Phe Pro Ser Ser Asn Ser
 145 150 155 160
 Thr Leu Thr Asn Gly Tyr Ile Pro Val Lys Asp Phe Arg Pro Leu Leu
 165 170 175
 Arg Leu Met Leu Leu Thr Gln Leu His Val Ala Gly Ile Asp Pro Asp
 180 185 190
 Glu Phe Thr Ser Cys Leu Ala Gln Val Glu Thr Val Asn Ser Cys Leu
 195 200 205
 Leu Pro Arg Ala Ala Thr Val Arg Glu
 210 215

<210> 31354
 <211> 422
 <212> PRT
 <213> A.fumigatus

<400> 31354
 Pro Asn Leu Asn Gln Thr Gly Pro Ser Phe His Asp Leu Thr Ser Phe
 1 5 10 15
 Asn Asp Thr Phe Leu Arg Phe Ser Leu Asp Ala Arg Ser Met Asn Leu
 20 25 30
 His Pro Leu His Ile Thr Gln Ser Ser Val Gly Glu Arg Cys Ala Ser
 35 40 45
 Tyr Ile Thr Ala Ile Ser Asp Thr Leu Ala Gln Arg Ile Ile Ser Pro
 50 55 60
 Leu Leu Ser Ser Lys Ala Ser Ser Ser Leu Arg Thr Leu Asn Leu Gln

[illegible]

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<210> 31355
<211> 187
<212> PRT
<213> A.fumigatus
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<400> 31355
Glu Leu Asn Tyr Val Pro Ser Met Gly Gln Ala Glu Phe Asn Ala Arg
1          5          10          15
Thr Asp Ala Ser Ala Glu Ile Ser Ala Phe Ala Val Arg Ala Glu Pro
          20          25          30

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12081

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Asp Ser Glu Pro Val Ser Glu Lys Gln Gly Thr Ala Glu Thr Ala Ala
    35                                40                                45
Glu Thr Gly Ala Gly Gly Thr Glu Val Pro Ala Glu Arg Asn Gly Glu
    50                                55                                60
Asp Asp Val Glu Arg Thr Pro Lys Lys Ser Leu Ser Phe Lys Leu Ala
65                                70                                75                                80
Phe Ile Gly Leu Ala Ala Ser Met Phe Val Phe Gln Val Asp Ala Thr
    85                                90                                95
Ala Phe Gly Ile Ala Phe Pro Val Ser Asn Thr Thr Leu Ser His Arg
    100                                105                                110
Glu Leu Asn Cys Pro Arg Thr Asp Leu Ala Gly Arg Pro Ser Leu Arg
    115                                120                                125
Ile Ser Arg Ala Arg Val Trp Ser Pro Ser Gly Arg Thr Cys Pro Thr
    130                                135                                140
Pro Ser Val Ala Ser Ser Cys Asn Arg Cys Gly Pro Val Ser Pro Pro
145                                150                                155                                160
Arg Ser Val Gly Asn Arg Leu Tyr Thr Tyr Pro Trp Arg Cys Ser Ser
    165                                170                                175
Ser Asp Pro Ser Ser Leu Pro Trp Pro Arg Ile
    180                                185

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<210> 31356

<211> 496

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (492)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31356

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Thr Ile Ala Ala Asp Leu Lys Gly Glu Ser Leu Glu Ser Phe Trp Ala
1                                5                                10                                15
Asn Leu Ser Tyr Thr Leu Cys Gly Leu Val Met Gln Pro Val Trp Ala
    20                                25                                30
Ser Ile Ser Thr Ala Phe Gly Arg Lys Pro Pro Leu Tyr Val Ser Met
    35                                40                                45
Ala Leu Phe Phe Ile Gly Ser Ile Val Phe Ala Val Ala Gln Asn Met
    50                                55                                60
Asn Thr Ile Ile Val Gly Arg Val Leu Gln Gly Phe Gly Gly Gly Gly
65                                70                                75                                80
Ile Asp Val Leu Ala Glu Val Ile Leu Ala Asp Met Thr Thr Leu Glu
    85                                90                                95
Glu Arg Ser Lys Tyr Leu Gly Leu Met Ala Ile Pro Met Ala Ile Gly
    100                                105                                110
Asn Ile Met Gly Pro Ser Val Gly Ala Leu Phe Ala Thr Tyr Ala Ser
    115                                120                                125
Trp Arg Trp Ile Gly Trp Val Asn Leu Pro Leu Leu Gly Ile Gly Thr
    130                                135                                140
Pro Leu Val Phe Phe Phe Leu Lys Leu Arg Pro Val Pro Leu Asp Ala
145                                150                                155                                160
Ser Leu Ala Lys Asn Leu Asn Arg Leu Asp Trp Ile Gly Met Val Leu
    165                                170                                175
Val Val Val Gly Ile Thr Ile Phe Val Leu Pro Leu Ser Trp Ala Gly
    180                                185                                190

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Ser Leu Ser Pro Trp Gly Ala Trp Gln Thr Leu Val Pro Leu Phe Leu
 195 200 205
 Gly Val Ala Val Leu Val Ile Phe Ala Phe Tyr Glu Ala Arg Pro Asp
 210 215 220
 Ala Pro Ile Val Pro His Arg Leu Phe His Ser Lys Thr Gly Asn Met
 225 230 235 240
 Thr Leu Val Gly Gly Phe Leu His Gly Ala Val Leu Val Ser Leu Leu
 245 250 255
 Gln Tyr Leu Pro Leu Ile Tyr Gln Ala Val Gln Leu Glu Thr Ala Ile
 260 265 270
 Leu Ser Ala Val Ser Leu Leu Pro Thr Val Ile Ile Ser Val Val Val
 275 280 285
 Ala Ala Ile Ser Met Met Leu Val Pro Trp Phe Gly Gly Tyr Val Trp
 290 295 300
 Ile Leu Arg Leu Ala Trp Val Ile Leu Thr Leu Gly Thr Gly Leu Leu
 305 310 315 320
 Ala Leu Phe Asp Val Gly Ser Ser Ser Ser Met Arg Leu Gly Leu Pro
 325 330 335
 Ile Leu Trp Gly Ala Gly Val Ala Leu Leu Arg Leu Asn Leu Leu Pro
 340 345 350
 Met Gln Ala Ser Val Lys Asn Val Asp Asp Thr Gly Leu Ala Ile Gly
 355 360 365
 Gln Phe Leu Thr Ile Arg Met Phe Gly Gly Leu Val Gly Leu Thr Ile
 370 375 380
 Ser Ala Thr Ile Phe Asn Ser Val Phe Ser Thr Ser Ile Ser Ala Thr
 385 390 395 400
 Ala Val His Leu Thr Gly Pro Leu Ala Pro Leu Lys Asp Val Ala Asn
 405 410 415
 Ala Val Ala Phe Ile Asp Lys Leu Arg Ser Ile Asp Val Pro Val Glu
 420 425 430
 Thr Arg Asp Gln Val Leu Met Val Tyr Leu Lys Cys Phe His Thr Ile
 435 440 445
 Phe Tyr Thr Met Thr Gly Leu Ile Gly Leu Gly Leu Val Thr Ser Leu
 450 455 460
 Cys Val Asp Asp Ile Asp Leu Lys Ser Gln Gly Leu Gly Asp Pro Pro
 465 470 475 480
 Phe Gln Gly Leu Leu Arg Thr Glu Arg Met Glu Xaa Thr Val Ala His
 485 490 495

<210> 31357

<211> 132

<212> PRT

<213> A.fumigatus

<400> 31357

Gln Tyr Pro Asp Phe Leu Ser Thr Gly Arg Phe Arg Ile Leu Cys Leu
 1 5 10 15
 Thr Ser Ser Asp Leu Leu Asp Pro Lys Gly Val Ser Ala Gln Val Leu
 20 25 30
 Thr Ser Leu Gly Ser Ser Val Leu Pro Arg Phe Pro Pro Asn Val Ile
 35 40 45
 Glu Gln Val Val Ile His Pro Arg Leu Gly Lys Thr Phe Met Trp Gln
 50 55 60
 Asp Val Pro Asn Glu Leu Lys Lys His Ser Glu Met Arg Phe Tyr Ser
 65 70 75 80
 Gly Tyr Ala Leu Asp Asp Val Tyr Lys Ile Tyr Gly Val Asp Glu Thr

12083

85 90 95
 Arg Gly Ala Leu Ala Val Val Arg Pro Asp Gly Tyr Val Gly Met Val
 100 105 110
 Ala Gly Leu Ala Asp Leu Glu Arg Val Gln Glu Tyr Leu Glu Arg Cys
 115 120 125
 Ile Arg Thr Ile
 130

<210> 31358
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 31358
 Pro Arg Glu Pro Gln Glu Leu Ala Lys Gln Glu Glu Met Gly Cys Tyr
 1 5 10 15
 Tyr His Gly Phe Leu Phe Thr Phe Ile Ser Pro Val Ser Ser Ser Met
 20 25 30
 Val Ala Pro Ala Leu Pro Ser Ile Ala Ser Asp Phe His Ile Glu Glu
 35 40 45
 Gln Val Ser Ser Gln Leu Thr Leu Ser Ile Phe Val Leu Ala
 50 55 60

<210> 31359
 <211> 127
 <212> PRT
 <213> A.fumigatus

<400> 31359
 Ala Gly Pro Leu Leu Ile Ser Asn Gly Ile Ile Leu His Asn Ser His
 1 5 10 15
 Ala Phe Arg Trp His Leu Ser Ser Phe Pro Leu Thr Val Ala Asn Ser
 20 25 30
 Arg Lys Leu Ile Asn Gln Gln Ser Val Leu Pro Ile Ser Thr Glu Arg
 35 40 45
 Glu Thr Ala Tyr Ser Leu Cys Asp Cys Gln His Leu Thr Ile Arg Glu
 50 55 60
 His Asn Ser Thr Met Ser Ala Pro Lys Ile Thr Leu Tyr Thr Asn His
 65 70 75 80
 Arg Cys Pro Trp Ala His Arg Ala His Ile Ala Leu Lys Glu Leu Gly
 85 90 95
 Leu Asp Tyr Glu Glu Val Ile Ile Asp Leu Asn Thr Pro Arg Glu Pro
 100 105 110
 Trp Tyr Leu Glu Ile Asn Pro Val Gly Arg Leu Gln Pro Trp Glu
 115 120 125

<210> 31360
 <211> 89
 <212> PRT
 <213> A.fumigatus

<400> 31360
 Gln Pro Gln Arg Gly Leu Val Pro Ala Ile Ser Tyr Asn Gly Thr Ile
 1 5 10 15
 Ile Thr Glu Ser Ala Ile Val Ala Gln Phe Leu Ala Asp Ala His Pro
 20 25 30

12084

Ser His Leu Leu Pro Pro Ser Asn Ser Val Glu Gly Ala Leu Gln Arg
 35 40 45
 Ala Arg Ile Ala Phe Phe Val Asp Thr Phe Phe Ser Lys Gly Arg Pro
 50 55 60
 Ala Leu Ser Gly Phe Ser Ala Arg His Lys Arg Pro Gly Pro Arg Cys
 65 70 75 80
 Ser Gly Gly Gly Tyr Arg Cys Gly His
 85

<210> 31361
 <211> 95
 <212> PRT
 <213> A.fumigatus

<400> 31361
 Lys Arg Asp Ala Ser Gly Asn Glu Leu Asn Ser Leu Lys Thr Leu Arg
 1 5 10 15
 Ile Ala Cys Phe Lys Met Arg Ala Ile Ala Phe Leu Leu Leu Phe Thr
 20 25 30
 Trp Leu Phe Thr Ala Ser Gly Thr Ile Leu Glu Asn Gly Gln Ala Arg
 35 40 45
 Leu Asn Pro Tyr Pro Gly Gln Ala Glu Ile Ile Thr Leu Asp Lys Lys
 50 55 60
 Thr Trp Arg Asn Tyr Lys Pro Ser Ala Lys Glu Ile Ser Tyr Lys Gly
 65 70 75 80
 Arg Trp Asp Asp Lys His Ile Ser Cys Glu Ser Asn Arg Thr Thr
 85 90 95

<210> 31362
 <211> 211
 <212> PRT
 <213> A.fumigatus

<400> 31362
 Ala Met Val Ser Arg Asp Gln Pro Gly Arg Pro Pro Ser Ala Leu Gly
 1 5 10 15
 Met Ile Pro Tyr Ser Asn Ser His Ser Ala Ala Ser Ser Pro Pro Ser
 20 25 30
 Pro Thr Thr Ala Pro Ser Ser Pro Ser Arg Pro Ser Ser Pro Ser Ser
 35 40 45
 Ser Gln Thr Arg Ile His Pro Thr Ser Phe Leu Pro Pro Ile Ala Ser
 50 55 60
 Lys Ala Pro Cys Ser Ala Pro Ala Ser Pro Ser Ser Ser Ile Pro Ser
 65 70 75 80
 Ser Ala Arg Val Ala Pro His Phe Leu Ala Ser Gln Arg Ala Thr Ser
 85 90 95
 Asp Gln Asp Arg Val Ala Ala Gly Glu Ala Ile Val Ala Ala Ile Glu
 100 105 110
 Lys Glu Leu Glu Pro Ile Leu Ala Ser Gln Lys Gly Pro Gly Pro Phe
 115 120 125
 Phe Gly Gly Arg Glu Lys Leu Thr Leu Ala Glu Val Leu Ile Gly Ser
 130 135 140
 Phe Leu Leu Arg Leu Leu Ser Phe His Lys Pro Glu His Gly Leu Leu
 145 150 155 160
 Arg Glu Asp Leu Pro Gln Leu Leu Glu Lys Arg Thr Pro Ala Phe Thr
 165 170 175

12085

Lys Trp Ala Asn Ala Thr Val Glu Gln Glu Ser Val Asn Phe Ile Trp
 180 185 190
 Asp Glu Lys Ser Val Val Glu Leu Thr Lys Lys Lys Ile Ala Ser Leu
 195 200 205
 Ala Lys Lys
 210

<210> 31363
 <211> 60
 <212> PRT
 <213> A.fumigatus

<400> 31363
 Leu Trp Ser Phe His Leu Thr Val Val Val Leu Ser Val Ala Asp Ile
 1 5 10 15
 Pro Ala Lys Ser Lys Ser Pro Arg Gln Ser Thr Val Lys Thr Ala Met
 20 25 30
 Ser Ala Leu Ile Asp Arg Glu Phe Val Asn Val Leu Phe Arg Leu Ala
 35 40 45
 Leu Ser Met Leu Thr Gln Ile Asn Phe Thr Trp Phe
 50 55 60

<210> 31364
 <211> 190
 <212> PRT
 <213> A.fumigatus

<400> 31364
 Thr Ser Lys Met Ala Thr Leu Lys Ser Arg Asn Ile Ile Leu Leu Leu
 1 5 10 15
 Thr Ser Leu Leu Ser Leu Leu His Leu Ala Thr Ser Gln Arg Thr Pro
 20 25 30
 Asn Glu Asn Leu Val Leu Ala Asp Cys Gly Ile Gly Leu Gly Val Asn
 35 40 45
 Gly Gly Ser Thr Ser Arg Glu Met Ile Tyr Tyr Pro Gly Asp Val Trp
 50 55 60
 Thr Gly Asn Gly Ala Asp Thr Asn Lys Pro Thr Met Met Val Asn Val
 65 70 75 80
 Pro Trp Ser Gly Ser Tyr Pro Trp Gly Gln Asn Gly Gly Val Ser Ala
 85 90 95
 Arg Met Pro Asn Gly Asp Val Phe Thr Val His Ile Asn Pro Lys Ile
 100 105 110
 Lys Asp Pro Ile Ala Ala Gly Asp Ala Trp His Met Tyr Glu Met Asn
 115 120 125
 Leu Pro Leu Lys Cys Tyr Ser Tyr His Lys Asp Lys Val Tyr Gln Leu
 130 135 140
 Asp Asp Gly Lys Trp Cys Ser Ser Ala Tyr Val Cys Asn His Arg Gly
 145 150 155 160
 Thr Pro Thr Pro His Val Lys Pro Ser Pro Ala Pro Lys Pro Gly Pro
 165 170 175
 Val Pro Val Asn Thr Asn Ser Ala Phe Arg Gly Cys Asp Leu
 180 185 190

<210> 31365
 <211> 300
 <212> PRT

<213> A.fumigatus

<400> 31365

Ala Leu Ala Met Val Ser Leu Asn Leu Pro Lys Leu Ala Leu Phe Ile
 1 5 10 15
 Ser Phe Leu Gly Thr Cys Leu Ala Glu Leu Leu Thr Pro Phe Pro Asp
 20 25 30
 Thr Ala Ser Glu Leu Ala Ile Lys Phe Gln Pro Val Leu Asp Phe Asp
 35 40 45
 Thr Asp Ser Cys Tyr Gln Thr Ala Ala Ile Gly Lys Asp Tyr Lys Leu
 50 55 60
 Asn Ser Gly Ile Asp Pro Thr Leu Ala Pro Pro Arg Pro Pro Gly Pro
 65 70 75 80
 Gly Pro Ile Val Arg Ala Ala Thr Asp Asp Glu Gln Val Ile Phe Ala
 85 90 95
 Ala Asn Ala Ser Asp Ser Asp Ser Asp Ser Gln Ile Gly Ile Arg Ser
 100 105 110
 Gly Gly Pro Phe Ala Pro Ser Gly Cys Arg Asp Lys Ala Arg Leu Asp
 115 120 125
 His Ser Gln Thr Tyr Val Arg Glu Arg Cys Asn Arg Gly Trp Cys Ala
 130 135 140
 Tyr Leu Tyr Gly Tyr Tyr Phe Glu Val Asp Ser Gly Phe Ser Asn Ala
 145 150 155 160
 His Lys His Asp Trp Glu His Val Ile Val Trp Thr Leu His Asp Gln
 165 170 175
 Val Phe Phe Val Ser Trp Ser Ala His Gly Asp Tyr Thr Thr His Tyr
 180 185 190
 Tyr Ser Thr Val Arg Phe Glu Gly Ser His Pro Lys Ile Val Tyr His
 195 200 205
 Leu Gly Ser Ser Gly Thr His Ser Leu Arg Lys Ala Glu Ala Lys Asp
 210 215 220
 Asp Lys Ile Glu Asn Asp Thr Gly Arg Trp Phe Arg Ala Pro Leu Val
 225 230 235 240
 Ser Leu Glu Lys Met Pro Cys Lys Phe Asn Arg Leu Leu Leu Asn His
 245 250 255
 Asn Trp Gly Ser Ala His Ser Asp Leu Ser Arg Leu Gly Glu Lys Leu
 260 265 270
 Asp Lys Trp Met Pro Trp Asp Ala Arg Asn Asn Glu Lys Phe Asn Pro
 275 280 285
 Trp Glu Pro Lys Val Pro Leu Trp Ala Val Arg Glu
 290 295 300

<210> 31366

<211> 77

<212> PRT

<213> A.fumigatus

<400> 31366

His Phe Pro Val Pro His Gln Leu Thr Thr Leu Leu Gln Thr Thr Pro
 1 5 10 15
 Thr Pro Ser Asn Thr Asn Thr Leu Phe Phe Ser Lys His His Lys Ser
 20 25 30
 His Pro Arg Lys Ala Glu Phe Val Phe Thr Gly Thr Gly Pro Gly Phe
 35 40 45
 Gly Ala Gly Asp Gly Leu Thr Cys Gly Val Gly Val Pro Arg Trp Leu
 50 55 60

12087

His Thr Tyr Ala Leu Glu His His Leu Pro Ser Ser Ser
65 70 75

<210> 31367
<211> 75
<212> PRT
<213> A.fumigatus

<400> 31367
Ala Ala Thr Ser Ile Pro Gln Ala Leu Pro Met Pro Tyr Asp Thr Asn
1 5 10 15
Gln Pro Gly Val Pro Arg Glu Phe Ser Ser Lys Asp Leu Arg Thr Val
20 25 30
Gly Asn Tyr Thr Leu Gly Arg Leu Ile Gly Lys Gly Ser Phe Gly Lys
35 40 45
Val Tyr Leu Ala Ser His Lys Leu Thr Asn Gly Ser Lys Val Leu Phe
50 55 60
Thr Pro Arg Pro Thr Gln Glu Ala Glu Pro Phe
65 70 75

<210> 31368
<211> 62
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (51)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31368
Val Val Leu Lys Ser Ser Pro Arg Glu Asp Thr Asn Leu Pro Arg Glu
1 5 10 15
Ile His His His Arg Gln Phe Leu His Pro His Ile Ala Arg Leu Tyr
20 25 30
Glu Val Ile Val Thr Glu Lys Leu Val Trp Leu Val Leu Glu Tyr Cys
35 40 45
Pro Gly Xaa Gly Thr Leu Gln Arg Asp Ala Ile Gly Tyr Arg
50 55 60

<210> 31369
<211> 545
<212> PRT
<213> A.fumigatus

<400> 31369
Pro Pro Phe Ser Ser Ala His Gln Ser Ser Pro Ser Leu Phe Glu Pro
1 5 10 15
Phe Leu Ala Ala Leu Pro Leu Pro Thr Pro Ser Ile Ala Phe Thr Ala
20 25 30
Leu Ala Ala Leu Arg Pro Phe Val Ser Ala Val Thr Ala Phe Asn Pro
35 40 45
Ser Tyr Ser Leu Tyr Ser Ala Leu Ala Ala Ser Tyr Thr Phe Thr Leu
50 55 60
His Gly Asn Leu Val Gly Leu Ser Phe Ala Leu Ser Thr Ser Gly Ile
65 70 75 80

Asn Val Arg Lys Gly Leu Leu Asp Ile Ser Ala Glu Pro Gly Tyr Arg
 85 90 95
 Ala Phe Asp Val Phe Tyr Tyr Leu Val Thr Ser Ser Ser Thr Pro Ala
 100 105 110
 Glu Arg Glu Phe Leu Ala Leu Lys Asp Pro Ser Ala Tyr Thr Leu Leu
 115 120 125
 Asn Arg Ser Gly Thr Tyr Ser Pro Pro Ser Tyr Leu Pro Thr Ala Asp
 130 135 140
 Asp Ala Ala Ala Ala Glu Asp Phe Arg Ala Ala Leu Lys Ala Ile Gly
 145 150 155 160
 Ile Lys Gly Ala Ser Leu Arg Gly Leu Leu Ser Ile Leu Ala Gly Leu
 165 170 175
 Leu Lys Leu Gly Asn Ala Ala Gly Phe Leu Val Asp Gln Glu Glu Leu
 180 185 190
 Glu Asp Val Cys Glu Glu Val Gly Gly Leu Leu Gly Leu Asp Pro Glu
 195 200 205
 Val Leu Leu His Lys Cys Ser Thr Glu Asp Arg Glu Val Leu Ile Ala
 210 215 220
 Gly Ile Tyr Glu Ala Leu Val Asp Trp Val Ile Val Lys Ala Asn Glu
 225 230 235 240
 Thr Ile Ala Asn Glu Leu Arg Ala Asn Gln Glu Gly Asp Ser Gly Ser
 245 250 255
 Gly Ser Ala Gly Gln Trp Ser Asp Glu Asp Thr Val Gly Ile Thr Val
 260 265 270
 Val Asp Ile Pro Arg Pro Ala Phe Gly Lys Ala Val Ala Leu Arg Gly
 275 280 285
 Val Phe Asp Asp Thr Leu Gly Ile Asn Ala Glu Met Lys Glu Asp Gly
 290 295 300
 Val Gln Val Pro Pro Val Gly His Ser Val Leu Asn Asp Leu Asn Asn
 305 310 315 320
 Ser Val Ala Gln Val Glu Pro Asp Leu Gly Ile Thr Thr Gly Pro Ala
 325 330 335
 Trp Arg Glu Arg Glu Tyr Glu Leu Asp Lys Arg Gln Glu Val Leu Glu
 340 345 350
 Lys Val Gly Leu Glu Val Asp Met Asp Ser Phe Leu Arg Gln Leu Leu
 355 360 365
 Phe Pro Val Glu Ala Glu Gly Ile Thr Val Gly Lys Arg Gly Arg Phe
 370 375 380
 Asp Leu Met Thr Thr Leu Gly Ser Ser Arg Val Trp His His Ile Ser
 385 390 395 400
 Ile His Pro Thr Asp His Thr Pro Asp Ser Leu Asn Ala Ala Ser Pro
 405 410 415
 Thr Ala Ala Trp Ser Ala Gly Thr Val Ser Arg Gln Ile Arg Glu Trp
 420 425 430
 Arg Leu Ala Glu Trp Ala Asn Arg Arg Leu Lys Gln Met Asp Phe Thr
 435 440 445
 Ala Asp Phe Asp Val Glu Glu Phe Val Ser Arg Tyr Ser Arg Leu Gly
 450 455 460
 Cys Arg Glu Gly Arg Asp Gly Val Glu Ser Trp Leu Met Glu Arg Gly
 465 470 475 480
 Trp Thr Asn Gly Asp Ala Phe Val Gly His Gln Arg Ile Trp Met Arg
 485 490 495
 Glu Asn Ala Trp Trp Glu Ala Glu Thr Met Leu Asp Leu Lys Pro Asp
 500 505 510
 Glu Thr Pro Gly Ala Asn Ser Tyr Met Tyr Ala Ser Gly Met Leu Asp
 515 520 525

12089

Asn Gly Val Ala His Val Leu Thr Thr Ile Trp Val Tyr Ala Ser Lys
 530 535 540
 Lys
 545

<210> 31370
 <211> 92
 <212> PRT
 <213> A.fumigatus

<400> 31370
 Ser Asp Phe Phe Glu Asn Phe Leu Pro Leu Val Glu Leu Ile Phe Pro
 1 5 10 15
 Phe Thr Pro Gly Arg Thr Ser Gly Asn Ser Gln Ile Trp Leu Asp Leu
 20 25 30
 Arg Tyr Gly Ile Val Gln Val Ile Glu Tyr Arg Val Ser Asp Gly Arg
 35 40 45
 Asn Leu Asp Ala Ile Leu Leu His Leu Cys Ile Asp Thr Lys Gly Ile
 50 55 60
 Ile Lys Asp Ser Ser Gln Cys His Ser Phe Thr Lys Gly Arg Pro Arg
 65 70 75 80
 Asp Ile His Asp Arg Asp Thr His Gly Val Phe Val
 85 90

<210> 31371
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 31371
 Ala Glu Arg Phe Ile Ser Val Gln Leu Ile Leu Gly Ser Thr Pro Gly
 1 5 10 15
 Tyr Met Tyr Ser Pro Phe His Arg Thr His Leu Arg Arg Arg Cys Tyr
 20 25 30
 Gly Thr Ile Ser Ala Phe Ser Tyr Pro Ser Met Thr Ala Glu Gly Arg
 35 40 45
 Val Asp Asn Thr Met Thr Thr Phe Gly Leu Ile Ser Val Leu
 50 55 60

<210> 31372
 <211> 244
 <212> PRT
 <213> A.fumigatus

<400> 31372
 Thr Phe Phe Glu Met Leu Gly Asn Trp Ser Phe Gly Asp Tyr Phe Lys
 1 5 10 15
 Glu Asp Ala Ile Arg Tyr Ser Trp Glu Leu Leu Thr Lys Val Tyr Gly
 20 25 30
 Leu Asp Pro Gln Arg Leu Tyr Val Thr Tyr Phe Glu Gly His Glu Glu
 35 40 45
 Gly Gly Leu Glu Pro Asp Leu Glu Ala Lys Ala Leu Trp Arg Ala Ala
 50 55 60
 Gly Val Pro Glu Asp His Ile Leu Pro Gly Asn Met Lys Asp Asn Phe
 65 70 75 80
 Trp Glu Met Gly Asp Gln Gly Pro Cys Gly Pro Cys Ser Glu Ile His

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<210> 31373
<211> 144
<212> PRT
<213> A.fumigatus
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<210> 31374
<211> 279
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (8)
<223> Identity of amino acid sequences at the above locations are unknown.
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<400> 31374

Ser Cys Arg Arg Pro Ser Val Xaa Ile Ser Asn Arg Ser Ile Ala Ile
 1 5 10 15
 Asp Phe Ala Asp Asp Gly His Tyr Glu Ala Asp Asp Asp Lys Arg Arg
 20 25 30
 Asn Glu Pro Arg Ser Ile Asp Phe Gly Pro Arg Ser Ile Gly Asp Gln
 35 40 45
 Glu Thr Arg Lys Lys Asp Arg Lys Ala Lys Lys Arg Thr Ser Lys Lys
 50 55 60
 His Lys Ala Arg Lys Glu Asp Asn Ala Asn Thr Leu Asp Thr Asp Ala
 65 70 75 80
 Ser Thr Gln Arg Pro Cys Leu Pro Ser Pro Gln Pro Val Pro Gly Pro
 85 90 95
 Asp Gly Ile Asn Ser Ser Gln Gln Ala Glu Val Ala Ala Ala Leu Pro
 100 105 110
 Lys Arg Arg Ser Pro Phe Arg Pro Ala Ile Pro Ser Leu Leu Ser Asn
 115 120 125
 Thr Val Phe Ser Asn Thr Ala Ala Ser Asn Asn Leu Ala Pro Gly Glu
 130 135 140
 Pro Gly Leu Arg Arg Thr Arg Ser Leu Pro Ser His Met Asn Arg Pro
 145 150 155 160
 Pro Pro Val Gly Asn Ala Val Gln Phe Ala Arg Gly Ala Ala Arg Met
 165 170 175
 Pro Thr Thr Leu Asp Val Thr Ala Asn Asn Ala Pro Pro Glu His Lys
 180 185 190
 Glu Pro Glu Ile Ser Arg Thr Ala Ala Val Val Met Leu Leu Val Ser
 195 200 205
 Thr Ala Leu Val Ala Val Cys Ala Glu Phe Leu Val Asp Ala Ile Pro
 210 215 220
 Glu Met Ile Glu Ser Ser Ser Val Ser Glu Ala Phe Ile Gly Leu Ile
 225 230 235 240
 Ile Leu Pro Ile Val Gly Asn Ala Ala Glu His Val Thr Ala Val Ser
 245 250 255
 Val Ala Thr Lys Asn Lys Met Asp Leu Ser Ile Gly Val Ser Val Gly
 260 265 270
 Ser Ser Ile Gln Ile Gly Glu
 275

<210> 31375

<211> 103

<212> PRT

<213> A.fumigatus

<400> 31375

Ile Ser Leu Ser Glu Leu Ala Leu Thr Thr Thr Tyr Tyr Tyr Thr Tyr
 1 5 10 15
 Ile Ala Ser Ser Met Ser Tyr Tyr Gly Glu Arg Asp Thr Tyr Tyr Gly
 20 25 30
 Gly Pro Pro Gln Pro Thr Tyr Gly Arg Pro Pro Tyr Asp Arg Pro Pro
 35 40 45
 Tyr Glu Gln Gln Gln Gln Gln Gln Pro Pro Tyr Asn Arg Pro Pro Tyr
 50 55 60
 Asp Ile Pro Pro Gln Asp Ser Pro Ser Tyr Asn Arg Pro Pro Tyr Glu
 65 70 75 80
 Arg Thr Pro Tyr Glu Arg Pro Pro Pro Glu Arg Ser Pro Ser Ser Phe

12092

85
Asp Pro Ser Arg Pro Arg Tyr
100

90

95

<210> 31376
<211> 100
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (32)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31376
Arg Val Pro Cys Cys Gln Asn Ala Asp Thr Val Gln Ala Ala Val Thr
1 5 10 15
Ser Gly Lys Pro Pro Leu Pro Ile Ala Gln Glu Tyr Cys Leu Arg Xaa
20 25 30
Asp Gly Val Leu Pro Met Thr Tyr Asn Ala Lys Trp Lys Arg Leu His
35 40 45
Ala Phe Leu Lys Gln Leu Leu Asn Ala Lys Ala Ser Ala Ala Phe Ile
50 55 60
Leu Ser Gln Glu Phe Glu Ile Lys Gln Leu Leu Trp Asp Leu Ser His
65 70 75 80
Asp Ala Gly Lys Asn Ser Thr Asp Phe Tyr Met His Ile Arg Arg Met
85 90 95
Thr Phe Ser Met
100

<210> 31377
<211> 187
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (181)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31377
Tyr Val Ala Ala His Tyr Ser Pro Ile Lys Ser Ala Pro Tyr Phe Ser
1 5 10 15
Tyr Trp Asn Arg Cys Arg Val Lys Tyr Ser Glu Pro Asp Met Asp Ser
20 25 30
Phe Lys Ala Ile Asp Leu Pro Leu Pro Pro His Phe Val Ala Ala Leu
35 40 45
Gly Arg Pro Thr Val Leu Val Gly Phe Ala Cys Val Phe Leu Phe Ser
50 55 60
Gln Leu Leu Val Trp Thr Ala Lys Tyr Ser Arg Lys Lys Ser Lys Gly
65 70 75 80
Leu Ala Asp Ile Pro Gly Pro Ser Gly Trp Pro Ile Ile Gly Ile Gly
85 90 95
Leu Asp Leu Pro Ala Arg Pro Arg Lys Leu Leu Asn Ser Trp Ala Asn
100 105 110
Gln Phe Gly Asp Thr Phe Lys Val Arg Val Gly Trp Tyr Asn Trp Val

12093

	115		120		125										
Phe	Phe	Asn	His	Pro	Asp	Ala	Val	Lys	Glu	Val	Phe	Asp	Arg	Gln	Val
	130					135					140				
Ile	Gln	Pro	Pro	Thr	Ser	Glu	Ser	Leu	Ala	Val	Arg	Met	Leu	Ile	Gln
145					150					155					160
Tyr	Arg	Arg	Leu	Ser	Arg	Pro	Val	Asn	His	Arg	Ser	Pro	Ser	Pro	Lys
			165						170					175	
Asn	Thr	Val	Phe	Xaa	Ala	Met	Val	Cys	Cys	Arg					
		180						185							

<210> 31378

<211> 365

<212> PRT

<213> A.fumigatus

<400> 31378

Arg	Pro	Arg	Thr	Gly	Phe	Ala	Ser	Leu	Ser	Gly	Thr	Ala	Arg	Lys	Val
1			5						10					15	
Arg	Asp	Val	Tyr	Gly	Asn	Met	Arg	Met	Leu	Ser	Ile	Ile	Leu	Ser	Pro
			20				25						30		
Gly	Val	Phe	Trp	Ile	Asp	Val	Phe	Pro	Pro	Leu	Asn	Trp	Leu	Pro	Arg
		35				40					45				
Phe	Leu	Phe	Pro	Ser	Trp	Pro	Lys	Ala	Lys	Phe	Met	Ala	Gln	Arg	Met
	50					55				60					
His	Ala	Asn	Lys	Met	Arg	His	Trp	Asn	Asn	Leu	Lys	Glu	Arg	Ile	Ala
65				70					75					80	
Leu	Gly	Asn	Ala	Pro	Asp	Cys	Phe	Ala	Lys	Asp	Leu	Met	Glu	Ser	Asn
			85					90					95		
Tyr	Arg	Asp	Tyr	Gly	Leu	Glu	Glu	Glu	Thr	Val	Ser	Trp	Leu	Ala	Ser
		100					105						110		
Ala	Val	Pro	Glu	Ala	Gly	Ala	Glu	Thr	Thr	Ala	Ser	Ala	Leu	Asn	Gly
		115				120						125			
Met	Ile	Arg	Tyr	Leu	Ala	Met	Phe	Pro	Glu	Ala	Gln	Ala	Arg	Ala	His
	130				135					140					
Glu	Glu	Val	Thr	Arg	Ile	Leu	Gly	Asp	Gly	Arg	Met	Ala	Thr	Leu	Ala
145				150						155					160
Asp	Glu	Pro	Gln	Met	Pro	Tyr	Ile	Lys	Ala	Val	Ile	Lys	Glu	Thr	Leu
			165					170						175	
Arg	Leu	Cys	Pro	Val	Ala	Thr	Thr	Gly	Leu	Arg	Arg	Met	Ala	Asp	Gly
		180					185						190		
Asp	Val	Lys	Tyr	Arg	Asp	Tyr	Val	Ile	Pro	Lys	Gly	Thr	Ile	Leu	Leu
	195					200						205			
Ala	Asn	Leu	Asn	Ala	Leu	His	Trp	Asp	Pro	Glu	Arg	Phe	Pro	Asp	Pro
	210				215						220				
Phe	Ser	Phe	Lys	Pro	Glu	Arg	Tyr	Leu	Asn	His	Pro	His	Arg	Ser	Ala
225				230					235						240
Val	Tyr	Ala	Ala	Gly	Gly	Asp	Ile	Met	Ala	Arg	Asp	His	Phe	Thr	Phe
			245					250						255	
Gly	Ala	Gly	Arg	Arg	Ile	Cys	Pro	Gly	Ile	His	Leu	Ala	Glu	Asn	Gly
		260					265					270			
Leu	Phe	Leu	Ala	Val	Ser	Asn	Leu	Ile	Trp	Ala	Tyr	Glu	Phe	Lys	Leu
	275					280						285			
Pro	Leu	Asp	Glu	Lys	Gly	Asn	Glu	Ile	Pro	Leu	Asp	Ile	Ser	Asp	Glu
	290					295					300				
Gly	Phe	Met	Glu	Gly	Ala	Ile	Arg	Val	Pro	Lys	Gln	Tyr	Thr	Val	Arg
305				310						315					320

12094

Ile Leu Glu Arg Asn Pro Ala Arg Ser Arg Leu Ile Arg Glu Ser Trp
 325 330 335
 Glu Gln Ala Gln Lys Asp Gly Tyr Ile Leu Arg Gly Val His Val Asp
 340 345 350
 Ala Asp Gly Gly Val Arg Gly Ser Ala Lys Val Lys Val
 355 360 365

<210> 31379

<211> 78

<212> PRT

<213> A.fumigatus

<400> 31379

Arg Asn Thr Asn Ser Cys Phe Leu Gly Ile Pro Arg Gln Gly Val Met
 1 5 10 15
 Pro Tyr Ala Ser Met Ser Asn Leu Leu Trp Lys Trp Lys Arg Gln Ser
 20 25 30
 Ser Phe Ser Pro Tyr Trp Ile Arg Ser Phe Leu Ser Leu Ser Thr Ile
 35 40 45
 Thr Ala Cys Cys Leu Asp Asn His Ala Leu Ala Val Asp Gly Glu Ala
 50 55 60
 Tyr Met Thr Lys Trp Leu Asn Trp His Asp Gln Glu Gly Arg
 65 70 75

<210> 31380

<211> 334

<212> PRT

<213> A.fumigatus

<400> 31380

Lys Asp Glu Phe Pro Gly Gln Gln Arg Thr Val His Leu Pro Thr Ser
 1 5 10 15
 Pro Lys Ser Thr Thr Ser Asn Glu Ala Leu Leu Ser Asp Ser Ser Pro
 20 25 30
 Leu Gln Leu Glu Lys Ser Asn Ile Leu Leu Leu Gly Pro Ser Gly Val
 35 40 45
 Gly Lys Thr Leu Met Ala Lys Thr Leu Ala Arg Val Leu Ser Val Pro
 50 55 60
 Phe Ser Ile Ser Asp Cys Thr Pro Phe Thr Gln Ala Gly Tyr Ile Gly
 65 70 75 80
 Glu Asp Ala Glu Val Ser Val His Arg Leu Leu Gly Val Ala Lys Tyr
 85 90 95
 Asp Val Glu Gln Ala Glu Arg Gly Ile Ile Val Leu Asp Glu Val Asp
 100 105 110
 Lys Ile Ala Ala Ala Lys Val Ser His Gly Lys Asp Val Ser Gly Glu
 115 120 125
 Gly Val Gln Gln Ala Leu Leu Lys Ile Ile Glu Gly Thr Thr Val Gln
 130 135 140
 Val Gln Ala Lys Gln Glu Arg Asn Ala His Arg Thr Ser Gly Thr Pro
 145 150 155 160
 Ser Ser Tyr Pro Ser Asn Asn Pro Phe Gly Asn Ser Pro Phe Ser Gln
 165 170 175
 Ser Pro Thr Gly Asn Ala Pro Gln Lys Gly Glu Ile Tyr Asn Val Arg
 180 185 190
 Thr Asp Asn Ile Leu Phe Ile Phe Ser Gly Ala Phe Val Gly Leu His
 195 200 205

12095

Lys Val Ile Met Asp Arg Ile Ser His Gly Ser Met Gly Phe Gly Gln
 210 215 220
 Pro Val Arg Ser Gln Ser Ser Pro Thr His Arg Pro Gly Asp Pro Leu
 225 230 235 240
 Ala Thr Thr Pro Asn Gln Pro Val Pro Ile Leu Pro Gly Ser Glu Glu
 245 250 255
 Glu Ala Leu Tyr Lys Lys His Leu Pro Phe Phe Thr Ala Ala Ser Pro
 260 265 270
 Thr Ser Pro Asp Gly Glu Pro Pro Tyr Phe Asn Ala Leu Asp Leu Leu
 275 280 285
 Asn Pro Thr Asp Leu Gln Asn Tyr Gly Phe Ile Pro Glu Leu Ile Gly
 290 295 300
 Arg Ile Pro Val Thr Ala Ala Leu Ser Thr Leu Ser Gln Pro Leu Leu
 305 310 315 320
 Val Arg Ile Leu Thr Glu Pro Arg Asn Ser Leu Leu Ala Gln
 325 330

<210> 31381

<211> 225

<212> PRT

<213> A.fumigatus

<400> 31381

Ile Phe Trp Cys Leu Val Met Leu Arg Leu Pro Ile Arg Ala His Gly
 1 5 10 15
 Leu Lys Cys Ala Ser Arg Ala His His Ser Ser Leu Leu Arg Tyr Arg
 20 25 30
 His Val Ala Ile Cys Gln Thr Cys Trp Ala Asn Arg Gly Phe Thr Ser
 35 40 45
 Thr Ala Lys Ser Phe Pro Thr Tyr Ser Glu Phe Asn Arg Ser Asp Phe
 50 55 60
 Thr Asn Gln Pro Trp Ser Ser Ile Tyr Glu Ala Gly Leu Pro Thr Ala
 65 70 75 80
 Gly Pro Leu Gly Ser Thr Pro Ala Phe Gly Ala Pro Arg Ile Thr Pro
 85 90 95
 Lys Thr Leu Lys Gln Tyr Leu Asp Gln Phe Val Val Gly Gln Asp Arg
 100 105 110
 Ala Lys Lys Ile Leu Ser Val Ala Val Phe Asn His Tyr Gln Arg Val
 115 120 125
 Gln Glu Leu Gln Arg Arg Glu Glu Glu Lys Ala Glu Leu Leu Ala Arg
 130 135 140
 Gln Ala Arg Arg Glu Ala Leu Glu His His Pro Ala Glu Gly Lys Pro
 145 150 155 160
 Tyr Val Pro Trp Asn Ser Ser Gln Ser Thr Leu Asn Ile Glu Lys Thr
 165 170 175
 Ser Phe Gln Asp Ser Asn Ala Pro Phe Ile Tyr Pro Leu Val Pro Ser
 180 185 190
 Arg Arg Arg Pro Met Lys His Phe Leu Ala Ile Arg Leu His Phe Asn
 195 200 205
 Trp Arg Asn Pro Thr Ser Ser Tyr Trp Asp His Arg Gly Trp Ala Arg
 210 215 220
 His
 225

<210> 31382

<211> 63

<212> PRT

<213> A.fumigatus

<400> 31382

```

Leu Asn Ile Ser Ile Leu Thr Thr Ile Ile Leu Leu Gly Leu Asn Tyr
1           5           10           15
Ile Arg Ile Arg Ala Ile Ile Asn Ile Phe Phe Ser Ser Leu Lys Ala
           20           25           30
Phe Ile Tyr Ser Ser Pro Tyr Ile Lys Gly Ala Leu Phe Tyr Ile Asn
           35           40           45
Thr Ile Lys Gly His Ala Ile Phe Lys Lys Phe Tyr Ile Asn Tyr
           50           55           60

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<210> 31383

<211> 150

<212> PRT

<213> A.fumigatus

<400> 31383

```

Lys Ser Trp Pro Ile Val Lys Ser Phe Val Gly Ala Val Arg Gln Asn
1           5           10           15
Glu Gly Ala Gln Leu Pro Ile Gly Ala Ala Gly Phe Cys Trp Gly Gly
           20           25           30
Lys His Thr Val Asn Leu Ala His Gly Phe Glu Val Asp Gly Lys Pro
           35           40           45
Leu Ile Asn Ala Gly Phe Thr Arg His Pro Ser Leu Leu Asn Ile Pro
           50           55           60
Gly Glu Ile Glu Lys Ile Thr Ile Pro Val Ser Phe Ala Leu Gly Asp
           65           70           75           80
Leu Asp Val Ile Val Lys Lys Pro Gln Ile Glu Gln Ile Lys Lys Ile
           85           90           95
Met Glu Gly Gly Glu Lys Val Gly Glu Val Lys Val Tyr Tyr Gly Ala
           100          105          110
Ser His Gly Phe Cys Val Arg Ala Asp Arg Leu Leu Lys Asp Ala Glu
           115          120          125
Gln Gln Ala Thr Glu Ala Glu Asp Gln Ala Leu Asp Trp Phe Asn Arg
           130          135          140
His Phe Ala Asn Val Gln
           145          150

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<210> 31384

<211> 308

<212> PRT

<213> A.fumigatus

<400> 31384

```

Lys Ile Ser Pro Val Arg Phe Leu Ile Ile Ala Phe Gln Val Pro Gln
1           5           10           15
Ile Ser Ala Ser Gln Asp Met Ala Thr Gln Leu Leu Arg Leu Thr Asn
           20           25           30
Leu Pro Val Gly Gln Ser His Glu His Lys Gly Asp Lys Arg Pro Leu
           35           40           45
Lys Ala Ala Pro Val Lys Ile Arg Ser Leu Thr Phe Arg Tyr Pro Ser
           50           55           60
Arg Leu Asp Ala Pro Ala Leu Arg Asn Val Thr Leu Ala Ile Ala Glu
           65           70           75           80

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Asn Ser Cys Thr Ala Ile Val Gly Gly Ser Gly Ser Gly Lys Ser Thr
 85 90 95
 Ile Ala Ser Leu Ile Leu Ser Leu Tyr Glu Thr Pro Leu Ser Met Cys
 100 105 110
 Lys Thr Pro Thr Ile Ser Ile Gly Gly Leu Asp Ile Arg Arg Leu His
 115 120 125
 Thr Pro Ser Leu Arg Ser Leu Ile Ser Ile Val Ser Gln Gln Pro Thr
 130 135 140
 Val Phe Pro Gly Thr Ile His His Asn Ile Cys Tyr Gly Leu Arg Asp
 145 150 155 160
 Glu Ser Pro Leu Arg Glu Leu His Asn Val Arg Thr Ala Ala Gln Ala
 165 170 175
 Ala Gly Ile Asp Asp Phe Ile Val Ser Leu Pro Asp Gly Tyr Ser Thr
 180 185 190
 Ile Ile Gly Asp Gly Gly Val Gly Leu Ser Gly Gly Gln Ala Gln Arg
 195 200 205
 Leu Ala Ile Ala Arg Ala Leu Val Arg Arg Pro Gln Val Leu Ile Leu
 210 215 220
 Asp Glu Ala Thr Ser Asn Leu Asp Pro Glu Ser Ala Lys Val Ile Arg
 225 230 235 240
 Gln Thr Val Gln Arg Leu Val Ser Ala Arg Leu Gly Leu Thr Val Ile
 245 250 255
 Ile Ile Thr His Ala Arg Glu Met Met Glu Ile Ala Asp Asn Ile Val
 260 265 270
 Val Leu Gln Gln Gly Ser Ile Val Glu Gln Gly Pro Tyr Glu Val Leu
 275 280 285
 Ala Arg Arg Arg Gly Gly Lys Leu Lys Ala Leu Ile Glu Asp Ser Glu
 290 295 300
 Gly Val Asp Ser
 305

<210> 31385

<211> 205

<212> PRT

<213> A.fumigatus

<400> 31385

Phe Pro Glu Ile Ala Ala Pro Ser Gly Pro Cys Gly Glu Glu Ile Asp
 1 5 10 15
 Gly Thr Ala Ser Tyr Phe Met His Tyr Leu Leu Glu Ala Ser Gly Gln
 20 25 30
 Ala Trp Val Asp Gln Leu Arg Lys Glu Ala Phe Arg Arg Val Ser Asp
 35 40 45
 Gln Pro Arg Gln Trp Phe Asp Glu Glu Ser Asn Ser Pro Ser Arg Ile
 50 55 60
 Thr Ala Cys Leu Asp Gln Asn Gly Glu Asp Met Arg Asn Leu Val Gly
 65 70 75 80
 Arg Phe Gly Gly Tyr Val Leu Val Ala Val Ala Ile Thr Met Thr Ala
 85 90 95
 Val Ile Trp Cys Leu Val Val Cys Trp Lys Leu Thr Leu Val Ala Leu
 100 105 110
 Ser Cys Gly Pro Val Ile Tyr Ala Ile Thr Arg Gly Phe Glu Gly Thr
 115 120 125
 Ser Gly Leu Trp Gln Gly Arg Cys Asn Glu Val Ala Arg Asn Ala Ser
 130 135 140
 Asp Val Phe Val Glu Thr Phe Ser Glu Ile Arg Thr Val Arg Thr Leu

12098

145 150 155 160
 Thr Leu Glu Pro Phe Phe His Lys Lys Tyr Leu Met Ala Ala Ser Lys
 165 170 175
 Cys Met Lys Ile Cys Leu Lys Arg Ala Ala Cys Thr Gly Ile Leu Phe
 180 185 190
 Gly Leu Val Glu Ser Thr Ile Ile Phe Val Ser Gly Glu
 195 200 205

<210> 31386
 <211> 61
 <212> PRT
 <213> A.fumigatus

<400> 31386
 Arg Glu Ser Thr Tyr Thr His Ser Arg Thr Ile Ser Asn Gly Pro Tyr
 1 5 10 15
 Met Ser Tyr Ser Asn Lys Lys Tyr Thr Thr Gln Ala Lys Tyr Asp Pro
 20 25 30
 Cys Arg Gly Leu Thr Gly Tyr Ser Val Ala His Ser Thr Ile Ala Pro
 35 40 45
 Val Ser Phe Leu Gly Ser Arg Phe Pro Gly Pro Glu Trp
 50 55 60

<210> 31387
 <211> 85
 <212> PRT
 <213> A.fumigatus

<400> 31387
 Thr Gly His Val Ala Lys Glu Asp Glu Ile Glu Gln Asn Leu Asp Leu
 1 5 10 15
 Leu Ser Gly Ala Ala Ser Arg Leu Asn Gly Leu Ala Arg Ala Thr Gly
 20 25 30
 Arg Glu Leu Asp Glu Gln Asn Arg His Leu Glu Arg Ile Met Gly Lys
 35 40 45
 Val Ser Val Pro Ala Cys Phe Ser Ser Ala Cys Gly Leu Thr Asp Leu
 50 55 60
 Leu Gln Ser Asp Phe Val Asp Asp Gln Ile Ala Met Asn Arg Ala Lys
 65 70 75 80
 Leu Asp Arg Ile His
 85

<210> 31388
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 31388
 Ala His Leu Tyr Ser Thr His Ile Ser Ile Cys Leu Ile Ser Thr Arg
 1 5 10 15
 Ala Ala Tyr Ser Gly Thr Ala Leu Ala Phe Arg Asp Arg Leu Ile Ile
 20 25 30
 Glu Trp Asn Lys Thr Gln Gln Arg Gln Ser Phe Ala Asp Gln Lys Arg
 35 40 45
 Val Tyr Cys Arg Cys Tyr Cys Leu Asp Val Pro Ile Tyr Leu Val Lys
 50 55 60

Phe Cys
65

<210> 31389
<211> 593
<212> PRT
<213> A.fumigatus

<400> 31389
Phe Arg Lys Lys Glu Gly Leu Lys Asp Leu Gly Phe Arg Ile Glu Asp
1 5 10 15
Val Ile Asn Gln Glu His Asp Ala Ala Leu Gly Asn Gly Gly Leu Gly
20 25 30
Arg Leu Ala Ala Cys Phe Leu Asp Ser Met Ala Thr Leu Asn Tyr Pro
35 40 45
Ala Trp Gly Tyr Gly Leu Arg Tyr Arg Tyr Gly Ile Phe Lys Gln Glu
50 55 60
Ile Val Asp Gly Tyr Gln Val Glu Ile Pro Asp Tyr Trp Leu Asp Phe
65 70 75 80
Asn Pro Trp Glu Phe Pro Arg His Asp Ile Thr Val Asp Ile Gln Phe
85 90 95
Tyr Gly Trp Val Arg Thr Tyr Gln Asp Glu Asn Gly Lys Thr Ile His
100 105 110
Ser Trp Gln Asp Gly Glu Ala Val Gln Ala Val Ala Tyr Asp Val Pro
115 120 125
Ile Pro Gly Tyr Gly Thr Arg Thr Thr Asn Asn Leu Arg Leu Trp Ser
130 135 140
Ser Lys Ala Ala Ser Gly Glu Phe Asp Phe Gln Lys Phe Asn Ala Gly
145 150 155 160
Asp Tyr Glu Ser Ala Val Ala Asp Gln Gln Arg Ala Glu Thr Ile Ser
165 170 175
Ala Val Leu Tyr Pro Asn Asp Asn Leu Glu Arg Gly Lys Glu Leu Arg
180 185 190
Leu Lys Gln Gln Tyr Phe Trp Cys Ala Ala Ser Leu Tyr Asp Ile Val
195 200 205
Arg Arg Phe Lys Lys Thr Lys Arg Ala Trp Ser Lys Phe Pro Glu Gln
210 215 220
Val Ala Ile Gln Leu Asn Asp Thr His Pro Thr Leu Ala Ile Val Glu
225 230 235 240
Leu Gln Arg Ile Leu Ile Asp Gln Glu Gly Leu Glu Trp Asp Glu Ala
245 250 255
Trp Thr Ile Val Thr Lys Thr Phe Gly Tyr Thr Asn His Thr Val Leu
260 265 270
Pro Glu Ala Leu Glu Lys Trp Ser Val Pro Leu Met Gln Asn Leu Leu
275 280 285
Pro Arg His Leu Gln Ile Ile Tyr Asp Ile Asn Leu Phe Phe Leu Gln
290 295 300
Ser Val Glu Lys Arg Phe Pro Ser Asp Arg Glu Met Leu Ser Arg Val
305 310 315 320
Ser Ile Ile Glu Glu Ser His Pro Lys Met Val Arg Met Ala His Ile
325 330 335
Ala Ile Ile Gly Ser His Lys Val Asn Gly Val Ala Glu Leu His Ser
340 345 350
Asp Leu Ile Lys Thr Thr Ile Phe Lys Asp Phe Val Lys Ile Tyr Gly
355 360 365
Pro Asp Lys Phe Thr Asn Val Thr Asn Gly Ile Thr Pro Arg Arg Trp

12100

370		375		380
Leu His Gln Ala Asn Pro Arg Leu Ser Asp Leu Ile Ala Ser Lys Leu				
385		390		395
Gly Gly Tyr Asp Phe Leu Lys Asp Leu Thr Leu Leu Asp Gln Leu Glu				400
	405		410	415
Ala Tyr Val Asp Asp Lys Ala Phe Arg Ala Glu Trp Ser Glu Ile Lys				
	420		425	430
Thr Ala Asn Lys Leu Arg Leu Ala Lys His Ile Lys Asp Thr Thr Gly				
	435		440	445
Tyr Ser Val Asn Pro Asn Ala Leu Phe Asp Val Gln Val Lys Arg Ile				
	450		455	460
His Glu Tyr Lys Arg Gln Gln Leu Asn Ile Phe Gly Val Ile His Arg				
	465		470	475
Tyr Leu Ile Ile Lys Ala Met Ser Arg Glu Glu Lys Glu Lys Leu Val				
	485		490	495
Pro Arg Val Ser Ile Phe Gly Gly Lys Ala Ala Pro Gly Tyr Trp Met				
	500		505	510
Ala Lys Thr Ile Ile His Leu Ile Asn Arg Val Ala Ala Val Val Asn				
	515		520	525
Asn Asp Ala Asp Val Gly Asp Leu Leu Lys Val Ile Phe Ile Glu Asp				
	530		535	540
Tyr Asn Val Ser Lys Ala Glu Ile Ile Cys Pro Ala Ser Asp Ile Ser				
	545		550	555
Glu His Ile Ser Thr Ala Gly Thr Glu Ala Ser Gly Asn Ser Asn Met				
	565		570	575
Lys Phe Val Leu Asn Gly Gly Leu Ile Ile Gly Thr Cys Asp Gly Ala				
	580		585	590
Asn				

<210> 31390
 <211> 205
 <212> PRT
 <213> A.fumigatus

<400> 31390
Asp Ser Leu Cys Thr Leu Leu Val Arg Asp Cys Thr Leu Val Val Thr
1 5 10 15
Gly Ile Glu Leu Leu Glu Ile Glu Leu Pro Thr Gly Cys Leu Ala Arg
20 25 30
Pro Gln Ser Glu Val Val Arg Arg Ala Ser Pro Ile Ser Trp Asp Arg
35 40 45
Asp Ile Val Gly His Ser Leu Asn Ser Phe Thr Val Leu Pro Gly Val
50 55 60
Asp Gly Leu Ala Val Leu Ile Leu Val Arg Ser Tyr Pro Thr Val Glu
65 70 75 80
Leu Asp Ile Asn Ser Asp Ile Val Ser Arg Glu Phe Pro Gly Val Glu
85 90 95
Ile Lys Pro Val Val Arg Asn Leu Asn Leu Ile Ala Ile His Asn Leu
100 105 110
Leu Phe Glu Asp Thr Val Ser Val Pro Gln Ser Val Ala Pro Gly Trp
115 120 125
Ile Val Gln Cys Arg His Thr Ile Lys Glu Ala Arg Gly Gln Thr Pro
130 135 140
Gln Ala Ser Val Ser Gln Ser Gly Ile Met Leu Leu Val Asp Asp Val
145 150 155 160

12101

Leu Asn Ser Lys Thr Lys Val Leu Gln Thr Leu Phe Phe Pro Lys Ser
 165 170 175
 Ala Thr Thr Phe Glu Phe Asp Gly Pro Ala Arg Arg Arg Pro Thr Ser
 180 185 190
 Gly Ser Ile Leu His Pro Asn Ile Lys His Arg Ile Val
 195 200 205

<210> 31391

<211> 68

<212> PRT

<213> A.fumigatus

<400> 31391

Arg Asn Ala Pro Val Asn Leu Asn His His Phe Arg Val Tyr Ser Gln
 1 5 10 15
 Asn Val Tyr Gly Gly Phe Gly Lys Gly Leu Tyr Glu Gly Ser Trp Ala
 20 25 30
 Thr Gly Pro Glu Lys Asn Val Phe Gly Asn Val Ser Leu Gly Ser Leu
 35 40 45
 Val Ala Gly Thr Ser Arg Lys Leu Lys His Val Cys Tyr Ile Leu Pro
 50 55 60
 Ile Gly Ser Ala
 65

<210> 31392

<211> 157

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (20)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31392

Ser Met Tyr Val Ile Ser Cys Leu Leu Ala Leu Leu Lys Thr Asp Asp
 1 5 10 15
 Met Lys Ile Xaa Val Tyr Thr Leu Thr Glu Gly Asn Thr Leu Gln Glu
 20 25 30
 Phe Ala Tyr Asp Ser Gly Thr Gly Trp Tyr Asn Gly Gly Leu Gly Gly
 35 40 45
 Ala Lys Phe Gln Val Ala Pro Tyr Ser Arg Ile Ala Ala Val Phe Leu
 50 55 60
 Ala Gly Thr Asp Ala Leu Gln Leu Arg Ile Tyr Ala Gln Lys Pro Asp
 65 70 75 80
 Asn Thr Ile Gln Glu Tyr Met Trp Asn Gly Ala Ser Asn His Lys Ser
 85 90 95
 Leu Asp Val Leu Ser Asn Leu His Leu Arg Arg Trp Leu Glu Gly Gly
 100 105 110
 His Gln Pro Gly Arg Cys Ser Pro Arg His Trp Asn Arg Ser His Leu
 115 120 125
 Leu Pro Leu Tyr Arg Leu Gln Trp Pro Lys His Pro Val Arg His Cys
 130 135 140
 His Ile His Ile Leu Asn Thr Gly Thr Leu Thr Asn Ile
 145 150 155

<210> 31393
 <211> 84
 <212> PRT
 <213> A.fumigatus

<400> 31393

Pro	Glu	Gln	Met	His	Cys	Ser	Cys	Glu	Ser	Met	His	Arg	Ser	Gln	Ile
1				5					10					15	
Thr	Gln	Ser	Arg	Ser	Ile	Cys	Gly	Thr	Val	Arg	Arg	Ile	Ile	Ser	Leu
			20					25					30		
Leu	Met	Cys	Phe	Leu	Thr	Cys	Ile	Leu	Gly	Asp	Gly	Trp	Lys	Glu	Gly
		35					40					45			
Thr	Asn	Leu	Gly	Gly	Ala	Leu	Pro	Gly	Thr	Gly	Ile	Gly	Ala	Thr	Ser
	50					55					60				
Phe	Arg	Tyr	Thr	Asp	Tyr	Asn	Gly	Pro	Ser	Ile	Arg	Tyr	Gly	Thr	Ala
65					70					75					80
Ile	Tyr	Thr	Ser												

<210> 31394
 <211> 150
 <212> PRT
 <213> A.fumigatus

<400> 31394

Ile	Arg	Glu	Arg	Leu	Leu	Ile	Phe	Asp	Ile	His	Arg	Ile	Trp	Phe	Gln
1				5					10					15	
Thr	Asp	Asp	Leu	Lys	Leu	Val	Gln	Arg	Ala	Tyr	Asp	Pro	His	Lys	Gly
			20					25					30		
Trp	Tyr	Pro	Asp	Leu	Val	Thr	Ile	Phe	Asp	Arg	Ala	Pro	Pro	Arg	Thr
		35					40					45			
Ala	Ile	Ala	Ala	Thr	Ser	Phe	Gly	Ala	Gly	Asn	Ser	Ser	Ile	Tyr	Met
	50					55					60				
Arg	Ile	Tyr	Phe	Val	Asn	Ser	Asp	Asn	Thr	Ile	Trp	Gln	Val	Cys	Trp
65					70					75					80
Asp	His	Gly	Lys	Gly	Tyr	His	Asp	Lys	Gly	Thr	Ile	Thr	Pro	Val	Ile
			85						90					95	
Gln	Gly	Ser	Glu	Val	Ala	Ile	Ile	Ser	Trp	Gly	Ser	Phe	Ala	Asn	Asn
			100					105					110		
Gly	Pro	Asp	Leu	Arg	Leu	Tyr	Phe	Gln	Asn	Gly	Thr	Tyr	Ile	Ser	Ala
		115					120					125			
Val	Ser	Glu	Trp	Val	Trp	Asn	Arg	Ala	His	Gly	Ser	Gln	Leu	Gly	Asn
		130				135					140				
Ser	Ala	Leu	Pro	Pro	Ala										
145					150										

<210> 31395
 <211> 207
 <212> PRT
 <213> A.fumigatus

<400> 31395

Asn	Met	Thr	Ser	Lys	Ala	Ala	Ala	Phe	His	Asp	Glu	Gly	Asp	Met	Ala
1				5					10					15	
Lys	Pro	Thr	Gly	Leu	Asp	Ala	Ile	His	Met	Val	Arg	Ile	Pro	Leu	Thr
			20						25					30	

[illegible]

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<210> 31396
<211> 76
<212> PRT
<213> A.fumigatus
```

Cys	Trp	Asn	Ser	Thr	Ala	Asn	Gln	Thr	Ser	Ile	Phe	Leu	Phe	Val	Gly
1				5					10					15	
Leu	Ile	Thr	Val	Ile	Ser	Ala	Pro	Ile	Val	Tyr	Trp	Lys	Leu	Asp	Asn
			20					25					30		
Asp	Ile	Ala	Ser	Ala	Arg	Phe	Leu	Thr	Glu	Gln	Glu	Lys	Leu	Gln	Ala
		35					40					45			
Met	Glu	Arg	Leu	Arg	Ala	Asn	Gln	Thr	Gly	Ala	Gly	Ser	Arg	Glu	Phe
	50					55					60				
Lys	Leu	Ser	His	Val	Val	Glu	Ala	Gly	Leu	Glu	Pro				
65					70					75					

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<211> 77
<212> PRT
<213> A.fumigatus
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Leu	Ala	Trp	Leu	Ile	Ala	Cys	Ile	Ala	Ser	Ile	Ile	Ser	Asp	Ile	Lys
1				5					10					15	
Thr	Asp	Tyr	Pro	Asn	Tyr	Ser	Trp	Trp	Ala	Val	Ala	Tyr	Met	Phe	Cys
			20					25					30		
Cys	Ile	Met	Gly	Val	Thr	Ile	Val	Phe	Gly	Ser	Asp	Thr	Gly	Leu	Val
		35					40					45			
Tyr	Gly	Val	Ala	Val	Cys	Phe	Thr	Pro	Phe	Val	Val	Gly	Phe	Ser	Ala
	50					55					60				
Leu	Met	Gly	Asn	Arg	Leu	Trp	Ala	Ile	Phe	Gln	Gln	Ala			
65					70					75					

<210> 31398
 <211> 177
 <212> PRT
 <213> A.fumigatus

<400> 31398
 Ala Asn Leu Lys Gln Val Val Trp Ile Phe Tyr Phe Gly Ser Ser Pro
 1 5 10 15
 Gln Ala Thr His Arg Gly Phe Ile Asp Ser Phe Ala Leu Asn Lys Glu
 20 25 30
 Ser Ser Gly Ala Tyr Gly Asn Arg Pro Met Ser Thr Ala Tyr Gly Pro
 35 40 45
 Arg Pro Asp Thr Met Ser Thr Ser Ala Pro Gln Met Tyr Thr Ser Ala
 50 55 60
 Gln Leu Asn Gly Phe Glu Thr Ser Ser Pro Val Ser Gly Tyr Pro Gly
 65 70 75 80
 Gly Gly Pro Gly Ser Glu Asn Arg Ser Ser Ser Gln Ala Arg Phe Gly
 85 90 95
 Asn Pro Ser Ala Ser Asn Val Ala Gly Asn Asn Ser Gly Gln Asp Glu
 100 105 110
 Val Pro Pro Pro Thr Glu Tyr Pro Tyr Lys Ala Lys Ala Ile Tyr Ser
 115 120 125
 Tyr Asp Ala Asn Pro Glu Asp Ala Asn Glu Ile Ser Phe Ser Lys His
 130 135 140
 Glu Ile Leu Glu Val Ser Asp Val Ser Gly Arg Trp Trp Gln Ala Arg
 145 150 155 160
 Lys Ser Asn Gly Glu Thr Gly Ile Ala Pro Ser Asn Tyr Leu Ile Leu
 165 170 175
 Leu

<210> 31399
 <211> 71
 <212> PRT
 <213> A.fumigatus

<400> 31399
 Tyr Leu Ala Leu Leu Leu Ile Ile Lys Gln Leu Ser Arg Pro Gln Thr
 1 5 10 15
 Val Lys Arg Leu Trp Gln Tyr Ile Arg Glu His Asn Leu Gln Asp Pro
 20 25 30
 Asn Asp Arg Arg His Ile Arg Cys Asp Asp Ala Met Arg Ala Val Phe
 35 40 45
 Lys Gln Asp Arg Ile His Met Phe Thr Met Thr Lys Ile Leu Asn Gln
 50 55 60
 Asn Leu Tyr Ser Pro Asp Glu
 65 70

<210> 31400
 <211> 170
 <212> PRT
 <213> A.fumigatus

<400> 31400
 Arg Ala Leu Leu Ser Gln Ala Ala Ile Lys Gln Leu Ile Met Lys Arg

12105

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1           5           10           15
Phe Asp Ile Phe Ala Glu Gln Ser Gly Ile Gly Gly Ser Ser Asp Ala
      20           25           30
Ala Ala Ser Ser Thr Ala Pro Thr Ser Asn Gly Gln Leu Gln Asn His
      35           40           45
Asp Ser Val Thr Pro Ala Glu Pro Ser Pro Pro Ala Pro Ser Ser Ser
      50           55           60
Pro Gln Lys Arg Gln Ala Glu Ser Asp Asp Gln Ser Asp Pro Pro Arg
      65           70           75           80
Lys Thr Pro Pro Ala Lys Lys Lys Lys Pro Asp His Asp Ile Asp Ala
      85           90           95
Asp Ala Leu Tyr Ala Ala Lys Leu Gln Ala Glu Glu Asn Met Arg Ala
      100          105          110
Arg Pro Thr Arg Gly Ala Ser Ala Arg Arg Ser Ala Pro Val Lys Lys
      115          120          125
Lys Ala Lys Ala Lys Thr Ser Lys Lys Val Lys Ala Glu Asp Asp Ser
      130          135          140
Asp Leu Asp Ser Gly Ser Glu Thr Lys Lys Glu Val Asn Arg Ser Gly
      145          150          155          160
Gly Phe His Val Ser Phe Gln His Phe Leu
      165          170

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<210> 31401
 <211> 76
 <212> PRT
 <213> A.fumigatus

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<400> 31401
Leu Ala Cys Asp Asp Phe Pro Ile Leu Thr Cys Leu Lys Arg Arg Thr
1           5           10           15
His Ala Asn Val Pro Glu Thr Pro Ala Gly Val Leu Glu Asn Val Arg
      20           25           30
Asn Lys Leu Arg Gly Leu Leu Pro Gly Glu Ser Val Pro Leu Ser Val
      35           40           45
Asp Gly His Val Asp Glu Leu Ile Thr Gln Ala Thr Asp Lys Arg Asn
      50           55           60
Leu Thr Ala Met Tyr Ile Gly Trp Cys Ala Phe Phe
      65           70           75

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<210> 31402
 <211> 137
 <212> PRT
 <213> A.fumigatus

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<400> 31402
Arg Arg Asp Pro Arg Leu Ser Val Pro Ser Ala Ser Cys Leu Phe His
1           5           10           15
Val Met Ser Ser Arg Ser Pro Gln Gly Arg Ser Pro Arg Arg Ser Met
      20           25           30
His Glu Met Asp Leu Glu Gly Arg Ser Arg Arg Ser Met Ser Pro Arg
      35           40           45
Gly Gly Pro Arg Ser Val Ser Arg Ser Pro Ser Ala Gln Tyr Asp Asn
      50           55           60
Gly Arg Arg Asn Lys His Arg Ser Arg Ser Trp Ser Arg Ser Pro Ser
      65           70           75           80
Arg-Ser Arg Thr Ser Ser Leu Ser Arg Ser Arg Ser Pro Ser Arg Asp

```

12106

				85					90					95					
Ser	Arg	Trp	Tyr	Arg	Asn	Arg	Ser	Tyr	Ser	Arg	Thr	Pro	Ser	Pro	Ser				
			100					105						110					
Ser	Gly	Pro	Pro	Arg	Ser	Ser	Lys	Val	Cys	Ser	Tyr	Ser	Thr	Tyr	Leu				
		115					120						125						
Phe	His	Leu	His	Leu	Ser	Lys	Ser	Tyr											
		130					135												

<210> 31403
 <211> 72
 <212> PRT
 <213> A.fumigatus

<400> 31403
 Leu Ser Gly Gln Lys Ala Ser Glu Phe Ile Ala Asn Ile Leu Glu His
 1 5 10 15
 Pro Ser Gly Gly Leu Trp Asn Ile Cys Met Gly Ala Thr Leu Glu Thr
 20 25 30
 Arg Gln Tyr Arg Lys Ile Ile Ala Gly Glu Leu Leu Thr Phe Phe Pro
 35 40 45
 Asn Glu Ile Cys Gly Trp Ile Met Gln Glu Ser Leu Gln His Val Phe
 50 55 60
 Thr Thr Gly Trp Lys Ile Arg Val
 65 70

<210> 31404
 <211> 82
 <212> PRT
 <213> A.fumigatus

<400> 31404
 Val Lys Leu Thr Ile Met Leu Cys Arg Arg His Phe Leu Gln Ala Gly
 1 5 10 15
 Leu Pro Val Ser Phe Tyr Ser Phe Arg Leu Ile Cys Gly Asp Val Trp
 20 25 30
 Leu Thr Ala Ala Asp Gly Phe Ser Ala Leu Phe Trp Leu Tyr Leu Asn
 35 40 45
 Lys Gly Arg Phe Phe Ser Thr Pro Met Lys Thr Ala Leu Thr Ile Leu
 50 55 60
 Asn Val Val Ile Met Gly Val Ala Cys Cys Ile Val Ser Pro Cys Trp
 65 70 75 80
 Thr Phe

<210> 31405
 <211> 165
 <212> PRT
 <213> A.fumigatus

<400> 31405
 Leu Ile Lys Ser Ser His Gly Cys Arg Asp Ser Ile Ala Gly Tyr Ser
 1 5 10 15
 Leu Pro Pro Ser Gly Cys Ser Arg Leu Arg Pro Cys Pro Val Ser Gln
 20 25 30
 Ser Ile Pro Ser Ala Asp Asn Ser Asn Glu Pro Arg Ala Ile Ile Leu
 35 40 45

12107

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Leu Val Ala Leu Gly Leu Met Ser Thr Tyr Thr Gly Tyr Thr Ile Gly
 50          55          60
Gln Phe Lys Trp Ala Tyr Pro His Ile His Ser Met Gly Asp Ala Gly
65          70          75          80
Glu Val Ile Met Gly Arg Phe Gly Arg Glu Leu Phe Gly Thr Gly Gln
          85          90          95
Leu Leu Leu Val Val Phe Ile Met Ala Ser His Ile Leu Thr Phe Thr
          100          105          110
Val Ala Met Asn Ser Ile Thr Asp His Gly Thr Cys Ser Ile Val Phe
          115          120          125
Gly Val Val Gly Leu Val Ile Ser Phe Val Leu Cys Leu Pro Arg Thr
          130          135          140
Leu Ala Lys Val Ser Phe Leu Ser Val Ala Cys Ala Cys Phe Ser Asp
145          150          155          160
Asp Val Glu Cys His
          165

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<210> 31406
 <211> 151
 <212> PRT
 <213> A.fumigatus

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<400> 31406
His Leu Ala Ala Phe Ile Ser Val Phe Ser Ala Val Leu Ile Val Met
1          5          10          15
Ile Ala Val Gly Val Gln Arg Pro Trp His Gly Gly Leu Asn Ala Thr
          20          25          30
Val Asp Thr Asn Leu Tyr Lys Ala Phe Leu Ala Val Cys Asn Ile Val
          35          40          45
Phe Ser Phe Cys Arg Leu Phe Leu His Phe Ser Ser Phe Met Asp Arg
          50          55          60
Thr Asn Lys Thr Ala Gly His Val Ala Phe Phe Gly Phe Met Ala Glu
65          70          75          80
Leu Arg Asn Pro Arg Asp Tyr Pro Lys Ser Leu Phe Leu Leu Gln Gly
          85          90          95
Ile Asp Thr Cys Leu Tyr Ile Ile Ala Ala Val Val Ile Tyr Cys Tyr
          100          105          110
Ala Gly Asp Asp Val Thr Ser Pro Ala Leu Gly Ser Ala Ser Thr Ile
          115          120          125
Val Lys Lys Val Ala Tyr Gly Ile Ala Leu Pro Thr Val Ser Leu Trp
          130          135          140
Ser Ser Ser Gln Glu Ala Ile
145          150

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<210> 31407
 <211> 143
 <212> PRT
 <213> A.fumigatus

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<400> 31407
Pro Glu His Pro Gly Gly Gln Lys Ile Ile Leu Lys Tyr Ala Gly Lys
1          5          10          15
Asp Ala Thr Glu Glu Phe Asp Pro Ile His Pro Arg Asp Thr Leu Asp
          20          25          30
Lys Tyr Leu Asp Arg Ser Lys His Leu Gly Glu Val Asp Met Ala Thr
          35          40          45

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12108

Val	Glu	Gln	Glu	Glu	Lys	Ala	His	Asp	Pro	Asp	Glu	Thr	Glu	Arg	Gln
50						55					60				
Glu	Arg	Ile	Lys	Gln	Met	Pro	Pro	Leu	Gln	Ala	Cys	Tyr	Asn	Leu	Met
65					70					75					80
Asp	Phe	Glu	Thr	Val	Ala	Arg	Ser	Val	Met	Lys	Lys	Thr	Ala	Trp	Ala
				85					90					95	
Tyr	Tyr	Ser	Ser	Gly	Ala	Asp	Asp	Glu	Ile	Val	Arg	Gly	Leu	Thr	Cys
			100					105					110		
Trp	Lys	Pro	Asp	Lys	Ser	Val	Ser	Leu	Thr	Ser	Ser	Arg	Leu	Cys	Ala
		115					120					125			
Arg	Thr	Thr	Met	Pro	Ser	Thr	Arg	Phe	Gly	Ser	Val	His	Glu	Tyr	
	130						135					140			

<210> 31408

<211> 93

<212> PRT

<213> A.fumigatus

<400> 31408

Ala	Leu	Asn	Val	Gly	Leu	Val	Arg	Ile	Ser	Lys	Arg	Ser	Ser	Ile	Val
1				5					10					15	
Ala	Phe	Asn	Pro	His	Lys	Asn	Arg	Ser	Ile	Val	Pro	Gly	Ser	Phe	Ser
			20					25					30		
Arg	Leu	Phe	Ser	Phe	Val	Pro	Asp	Ser	Phe	Pro	Phe	Asn	Arg	Gln	Lys
		35					40					45			
Ile	Val	Val	Thr	Met	Lys	Gln	Gly	Lys	Leu	Thr	Gly	Ala	Glu	Val	Ala
		50				55					60				
Lys	His	Ser	Ser	Lys	Asp	Ser	Cys	Trp	Val	Ile	Val	His	Gly	Lys	Ala
65					70					75					80
Tyr	Asp	Val	Thr	Glu	Phe	Leu	Pro	Gly	Thr	Val	Ser	Val			
					85					90					

<210> 31409

<211> 359

<212> PRT

<213> A.fumigatus

<400> 31409

Thr	Met	Arg	Glu	Asn	His	Tyr	Ala	Phe	His	Lys	Ile	Trp	Phe	Arg	Pro
1				5					10					15	
Arg	Val	Leu	Val	Asn	Val	Glu	Asn	Val	Asp	Phe	Ser	Thr	Thr	Met	Leu
			20					25					30		
Gly	Thr	Lys	Val	Ser	Val	Pro	Phe	Tyr	Val	Thr	Ala	Thr	Ala	Leu	Gly
		35					40					45			
Lys	Leu	Gly	Asn	Pro	Glu	Gly	Glu	Val	Val	Leu	Thr	Arg	Ala	Ala	Tyr
	50					55					60				
Lys	His	Asn	Val	Ile	Gln	Met	Ile	Pro	Thr	Leu	Ala	Ser	Cys	Ser	Phe
65					70					75					80
Asp	Glu	Ile	Val	Asp	Ala	Lys	Gln	Gly	Asp	Gln	Val	Gln	Trp	Leu	Gln
				85					90					95	
Leu	Tyr	Val	Asn	Lys	Asp	Arg	Asn	Ile	Thr	Lys	Arg	Ile	Val	Gln	His
			100					105					110		
Ala	Glu	Ala	Arg	Gly	Cys	Lys	Gly	Leu	Phe	Ile	Thr	Val	Asp	Ala	Pro
		115					120					125			
Gln	Leu	Gly	Arg	Arg	Glu	Lys	Asp	Met	Arg	Ser	Lys	Phe	Ser	Asp	Val
	130						135					140			

12109

Gly Ala Ser Val Gln Ala Ser Gly Gly Asp Glu Val Asp Arg Ser Gln
 145 150 155 160
 Gly Ala Ala Arg Ala Ile Ser Ser Phe Ile Asp Pro Ser Leu Ser Trp
 165 170 175
 Lys Asp Ile Pro Trp Phe Gln Ser Ile Thr Lys Met Pro Ile Ile Leu
 180 185 190
 Lys Gly Val Gln Cys Val Glu Asp Val Leu Arg Ala Val Glu Met Gly
 195 200 205
 Val Asp Gly Val Val Leu Ser Asn His Gly Gly Arg Gln Leu Glu Phe
 210 215 220
 Ala Arg Ser Ala Ile Glu Val Leu Ala Glu Val Met Pro Ala Leu Arg
 225 230 235 240
 Glu Arg Gly Trp Glu Asn Lys Ile Glu Val Tyr Ile Asp Gly Gly Val
 245 250 255
 Arg Arg Ala Thr Asp Ile Leu Lys Ala Leu Cys Leu Gly Ala Lys Gly
 260 265 270
 Val Gly Ile Gly Arg Pro Phe Leu Phe Ala Met Ser Ala Tyr Gly Gln
 275 280 285
 Pro Gly Val Glu Arg Ala Met Gln Leu Leu Lys Asp Glu Met Glu Met
 290 295 300
 Asn Met Arg Leu Ile Gly Val Ser Lys Ile Glu Glu Leu Asn Pro Ser
 305 310 315 320
 Leu Ile Asp Val Arg Gly Leu Thr Gly Gly His His Ala Pro Val Pro
 325 330 335
 Ser Asp Thr Leu Thr Leu Gly Ala Tyr Asp Pro Leu His Ala Pro Arg
 340 345 350
 Phe Ser Glu Lys Ser Lys Leu
 355

<210> 31410

<211> 193

<212> PRT

<213> A.fumigatus

<400> 31410

Leu Gln Leu Gly Phe Leu Ala Glu Pro Arg Ser Val Gln Arg Ile Val
 1 5 10 15
 Cys Thr Lys Ser Gln Cys Val Gly Arg His Arg Ser Met Val Ala Ala
 20 25 30
 Gly Lys Thr Ala Asp Val Asn Gln Ala Arg Val Gln Leu Leu Asp Leu
 35 40 45
 Ala Asp Thr Asn Gln Ala His Ile His Leu His Phe Ile Leu Glu Glu
 50 55 60
 Leu His Gly Ala Phe His Ala Gly Leu Ala Ile Arg Gly His Gly Lys
 65 70 75 80
 Glu Glu Gly Pro Ser Asp Thr Asp Thr Leu Gly Thr Glu Ala Gln Ser
 85 90 95
 Phe Glu Asp Ile Gly Gly Ala Thr Asp Thr Thr Val Asp Val Asp Leu
 100 105 110
 Asn Leu Val Leu Pro Ala Ala Leu Ala Glu Arg Arg His Asn Leu Gly
 115 120 125
 Gln Asp Phe Asp Gly Arg Ala Gly Glu Leu Glu Leu Ala Thr Thr Val
 130 135 140
 Val Gly Glu Asp Asp Thr Ile His Ala His Leu His Gly Thr Gln Asp
 145 150 155 160
 Ile Leu His Ala Leu Tyr Ser Leu Glu Asp Asp Gly His Leu Gly Asn

12110

Gly Leu Glu Pro Trp Asp Ile Leu Pro Gly Lys Arg Arg Ile Asp Glu
 165 170 175
 180 185 190
 Arg

<210> 31411
 <211> 279
 <212> PRT
 <213> A.fumigatus

<400> 31411
 Pro Ala Val Glu Gly Leu Gln Arg Met His His Pro His Lys Val Val
 1 5 10 15
 Ile Trp Gly Asn His Asp Arg Cys Phe Asp Ile Arg Ser Arg Arg Asp
 20 25 30
 Glu Asp Arg Asp Ala Ser Ser Ser Phe Val Ala Ile Ser Ser Ser
 35 40 45
 Thr Ala Ser Ile Arg Ser Leu Asp Asp Asp Pro Asp Gly Leu Asn Arg
 50 55 60
 Ile Asn Trp Gly Asp Ile His Tyr Leu Gln His Ser Ser Ile Thr Leu
 65 70 75 80
 Ser Phe Pro Pro Pro Ser Pro Ala His Ala Ala Ala Arg Pro Arg Ser
 85 90 95
 Leu Thr Ile Tyr Gly Ala Pro Gln Val Pro Ala Ile Val Pro Phe Thr
 100 105 110
 Ser Glu His Ala Phe Thr Tyr His Pro Gln His Asp Ala Trp Ser Gly
 115 120 125
 Thr Ile Pro Pro Asp Thr Asp Ile Leu Ile Thr His Thr Pro Pro Gln
 130 135 140
 Ala His Leu Asp Leu Ser Pro Val Tyr Ser Thr Gly Cys Pro Phe Leu
 145 150 155 160
 Leu Ala Glu Thr Trp Arg Val Arg Pro Ala Leu His Val Phe Gly His
 165 170 175
 Val His Glu Ala Tyr Gly Cys Glu Pro Val Tyr Trp Asp Glu Ala Gln
 180 185 190
 Arg Ala Trp Glu Arg Leu Cys Ala Ser Arg Arg Pro Arg Ala Arg Tyr
 195 200 205
 Gly Arg Leu Met Ser Val Phe Gly Leu Leu Arg Asp Leu Phe Asp Val
 210 215 220
 His Gly Trp Leu Asp Ala Met Arg Val Val Thr Tyr Gly Val Leu Gly
 225 230 235 240
 Val Val Trp Ala Lys Val Trp Gly Gly Glu Asn Arg Gly Cys Gly Trp
 245 250 255
 Met Val Asn Ala Ala Cys Met Tyr Arg Asn Thr Gly Arg Leu Gly Asn
 260 265 270
 Lys Pro Gln Val Val Val Leu
 275

<210> 31412
 <211> 90
 <212> PRT
 <213> A.fumigatus

<400> 31412
 Thr Ser Ile Leu Phe Ser Gln Pro Arg Ser Arg Ser Ala Gly Ile Thr

12111

1	5	10	15
Ser Ala Arg Thr Ser Met Ala Glu Arg Ala Asn Ser Ser Trp Arg Pro			
20	25	30	
Pro Trp Leu Glu Arg Thr Thr Pro Ser Thr Pro Ile Ser Thr Ala Arg			
35	40	45	
Arg Thr Ser Ser Thr His Cys Thr Pro Leu Arg Met Met Gly Ile Leu			
50	55	60	
Val Met Asp Trp Asn His Gly Ile Ser Phe Gln Glu Arg Glu Gly Ser			
65	70	75	80
Met Asn Asp Glu Ile Ala Arg Ala Ala Pro			
85	90		

<210> 31413

<211> 312

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (306)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31413

Asp Pro Ala Glu Leu Asp Gln Ile Thr Thr Leu Pro Asn Gly Ile Arg			
1	5	10	15
Val Ala Thr Glu Ser Leu Pro Gly Pro Phe Ala Gly Val Gly Val Tyr			
20	25	30	
Val Asp Ala Gly Ser Arg Tyr Glu Asp Glu Ser Leu Arg Gly Val Ser			
35	40	45	
His Ile Met Asp Arg Leu Ala Phe Lys Ser Thr Lys Ser Arg Thr Ser			
50	55	60	
Asp Glu Met Leu Glu Thr Leu Glu Ser Leu Gly Asn Ile Gln Cys			
65	70	75	80
Ala Ser Ser Arg Glu Ser Leu Met Tyr Gln Ser Ala Ser Phe Asn Ser			
85	90	95	
Ala Val Pro Ala Thr Leu Gly Leu Leu Ala Glu Thr Ile Arg Asp Pro			
100	105	110	
Leu Ile Thr Asp Glu Glu Val Leu Gln Gln Leu Ala Thr Ala Glu Tyr			
115	120	125	
Glu Ile Asn Glu Ile Trp Ala Lys Pro Glu Leu Ile Leu Pro Glu Leu			
130	135	140	
Val His Met Ala Ala Tyr Lys Asp Asn Thr Leu Gly Asn Pro Leu Leu			
145	150	155	160
Cys Pro Arg Glu Arg Leu Glu Glu Ile Asn Lys Ala Val Val Glu Arg			
165	170	175	
Tyr Arg Glu Val Phe Phe Lys Pro Glu Arg Met Val Val Ala Phe Ala			
180	185	190	
Gly Val Pro His Glu Glu Ala Val Lys Leu Thr Glu Gln Tyr Phe Gly			
195	200	205	
Asp Met Lys Ala Ala Asn Gln Ala Lys Gly Pro Val Leu Ser Gly Thr			
210	215	220	
Gly Ile Glu Thr Thr Leu Ser Asp Ser Glu Thr Ala Ala Gln Glu Gly			
225	230	235	240
Gln Val Pro Thr Val Pro Gln Phe Thr Pro Ser Ser Thr Ile Thr Thr			
245	250	255	
Thr Pro Thr Ser Lys Thr Gln Ser Val Leu Ser Arg Leu Pro Phe Leu			

12112

260 265 270
 Lys Asn Leu Ser Thr Thr Ala Ser Lys Pro Ala Ser Val Ala Pro Leu
 275 280 285
 Asp Pro Ser Leu Val Gln Pro Ser Ser Leu Asp Leu Thr Arg Pro Ser
 290 295 300
 Gln Xaa Thr Arg Arg Asp Gly Ser
 305 310

<210> 31414
 <211> 126
 <212> PRT
 <213> A.fumigatus

<400> 31414
 Arg Ala Ser Leu Glu Leu Ile Ile Gly Val Ile Ser Asn Tyr Asn Tyr
 1 5 10 15
 Ala Ile Ser Val Ala Leu Thr Thr Gly Asn Ile Leu Ala Glu Tyr Ile
 20 25 30
 Tyr Ile Leu Cys Tyr Val Phe Asp Ser Cys Ala Lys Asp Asn Tyr Leu
 35 40 45
 Lys Lys Pro Cys Leu Ile Val Ala Asp Lys His Gln Arg Arg Leu Leu
 50 55 60
 Tyr Arg Thr Ser Tyr Pro Arg His Leu Pro Tyr Asn Ile Tyr Leu Arg
 65 70 75 80
 Ile Glu Gly Ala Tyr Arg Thr Ala Ala Ile Thr Gln Arg Leu Lys Leu
 85 90 95
 Gly Leu Leu Leu Gly Thr Tyr Leu Ser Leu Leu His Pro Thr Phe Leu
 100 105 110
 Asn Leu Asn Tyr Ile Gly Lys Thr Tyr Ile Thr Asn Asn Ile
 115 120 125

<210> 31415
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 31415
 Asp Ile Tyr Thr Thr Glu Ile Asn Lys Glu Leu Leu Ile Thr Ser Thr
 1 5 10 15
 Leu Lys Arg Ala Lys Val Leu Ile Leu Thr Gly Leu Ala Ser Leu Gly
 20 25 30
 Lys Tyr Tyr Phe Pro Thr Leu Glu Ile Tyr Asp Leu Val Asn Thr Met
 35 40 45
 Ser Thr Leu Leu His Ile Asn Phe Thr Lys Leu Leu Glu Thr Trp Gly
 50 55 60
 Pro Gly Ser Glu
 65

<210> 31416
 <211> 63
 <212> PRT
 <213> A.fumigatus

<400> 31416
 Thr Lys Ala Ser Arg Tyr Ala Ser Phe Ala His Phe Asp Gly Leu Met
 1 5 10 15

12113

Leu Thr Val Val Tyr Gln Glu Val Asn Ile Gln Asn Met Asn Val Glu
 20 25 30
 Leu Val Ala Gln Met Phe Lys Asn Tyr Gln Ser Asn Val Leu Phe His
 35 40 45
 Leu Glu Gly Arg Val Val Leu Pro Leu Arg Arg Leu Gln Pro Cys
 50 55 60

<210> 31417

<211> 336

<212> PRT

<213> A.fumigatus

<400> 31417

Thr Thr Leu Asp Glu Val Ser Lys Cys Leu Phe Gln Lys Glu Cys Ala
 1 5 10 15
 Leu Thr Pro Val Val Met Asn Glu Ile Leu Phe Glu Cys Tyr Ser Ala
 20 25 30
 Pro Ser Val Ala Tyr Gly Ile Asp Ser Leu Phe Ser Tyr Arg Phe Asn
 35 40 45
 Lys Gly Thr Asp Gly Leu Ile Ile Ser Ser Ser His Thr Ser Thr His
 50 55 60
 Val Ile Pro Val Leu Asn Ser Lys Ala Leu Leu Ser Asn Cys Ser Arg
 65 70 75 80
 Leu Asn Trp Gly Gly Met His Ala Ser Glu Tyr Met Leu Lys Leu Met
 85 90 95
 Lys Leu Lys Tyr Pro Thr Phe Pro Ala Arg Met Thr Glu Ser Gln Met
 100 105 110
 Glu Asp Leu Val His Lys His Cys Tyr Val Ser Thr Asp Tyr Asp Arg
 115 120 125
 Glu Leu Ser Ser Tyr Leu Glu Trp Thr Gly Leu Glu Asp Arg Asp His
 130 135 140
 Ile Ile Gln Tyr Pro Phe Thr Glu His Val Val Pro Glu Lys Thr Glu
 145 150 155 160
 Glu Glu Leu Ala Arg Ile Ala Glu Arg Lys Lys Glu Ser Gly Arg Arg
 165 170 175
 Leu Gln Glu Gln Ala Ala Lys Met Arg Leu Glu Lys Leu Met Lys Lys
 180 185 190
 Glu Gln Glu Leu Glu Tyr Trp Lys Asp Leu Gln Arg Gly Leu Ala Ser
 195 200 205
 Glu Thr Lys Lys Glu Ala Arg Arg Ile Leu Asp Ser Glu Asp Leu Lys
 210 215 220
 Asp Glu Ala His Leu Asp Arg Arg Leu Ile Arg Asp Leu Glu Arg Ser Ile
 225 230 235 240
 Lys Arg Ser Arg Asn Arg Asp Leu Gly Val Glu Glu Thr Glu Glu Pro
 245 250 255
 Pro Glu Asp Met Ser Phe Pro Leu Leu Asp Val Pro Asp Glu Glu Leu
 260 265 270
 Asp Glu Ala Gly Leu Lys Glu Lys Arg His Gln Arg Leu Met Lys Ser
 275 280 285
 Asn Ile Glu Ala Arg Gln Arg Ala Lys Ala Glu Lys Glu Arg Glu Arg
 290 295 300
 Ala Arg Lys Glu Glu Glu Glu Arg Leu Asp Arg Glu Lys Arg Glu Asn
 305 310 315 320
 Asp Phe Glu Asn Trp Val Ala Glu Arg Arg Ala Ala Arg Gln Val Cys
 325 330 335

<210> 31418
 <211> 188
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (186)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31418
 Asn Ile Leu Gln Arg Ile Lys Glu Arg Asp Arg Met Lys Ala Asp Leu
 1 5 10 15
 Gly Asn Arg Lys Ser Leu Ala Ser Gln Met Arg Met Lys Thr Leu Ala
 20 25 30
 Asn Leu Ala Ala Asp Gly Pro Lys Lys Arg Arg Arg Gly Gly Asp Asp
 35 40 45
 Asp Asp Phe Gly Ala Asn Asp Glu Asp Trp Gly Val Tyr Arg Thr Val
 50 55 60
 Ala Thr Gly Glu Gln Ser Asp Glu Glu Glu Glu Glu Asp Leu Gly Glu
 65 70 75 80
 Met Leu Thr Asn Ile Glu Asn Glu Leu Leu Gln Tyr Asp Pro Glu Phe
 85 90 95
 Thr Glu Asn His Thr Leu Ala Ala Gln Ser Asp Trp Thr Lys Ser Leu
 100 105 110
 Val His Val Phe Leu Arg Gly Pro Trp Pro Phe Asp Pro Glu Ser Gln
 115 120 125
 Arg Glu Ala His Gln Ile His Leu Asn Val Glu Arg Ile Arg Val Pro
 130 135 140
 Glu Val Val Phe Lys Pro Ser Ile Ala Gly Ile Asp Gln Ala Gly Leu
 145 150 155 160
 Leu Glu Ile Ala Ala Gly Ile Val Asn Gln Arg Phe Val Phe Thr Thr
 165 170 175
 Gly Leu Gln Gly Ala Val Asp Phe Asn Xaa Thr Pro
 180 185

<210> 31419
 <211> 212
 <212> PRT
 <213> A.fumigatus

<400> 31419
 Arg Ser Ser Phe Ser Met Leu Val Ser Ile Ser Pro Arg Ser Ser Ser
 1 5 10 15
 Ser Ser Ser Ser Leu Cys Ser Pro Val Ala Thr Val Arg Tyr Thr Pro
 20 25 30
 Gln Ser Ser Ser Leu Ala Pro Lys Ser Ser Ser Ser Pro Pro Leu Leu
 35 40 45
 Arg Phe Phe Gly Pro Ser Ala Ala Arg Phe Ala Arg Val Phe Ile Arg
 50 55 60
 Ile Trp Leu Ala Ser Asp Phe Arg Leu Pro Arg Ser Ala Phe Ile Leu
 65 70 75 80
 Ser Arg Ser Leu Ile Leu Cys Lys Ile Phe Tyr Glu Gln Leu Val Ile
 85 90 95
 Leu Pro Asn Ser Ser Lys Asn Gln His Thr Cys Arg Ala Ala Leu Arg
 100 105 110

12115

Ser Ala Thr Gln Phe Ser Lys Ser Phe Ser Arg Phe Ser Arg Ser Ser
 115 120 125
 Arg Ser Ser Ser Ser Phe Arg Ala Leu Ser Arg Ser Phe Ser Ala Leu
 130 135 140
 Ala Arg Trp Arg Ala Ser Met Phe Asp Phe Met Ser Arg Trp Trp Arg
 145 150 155 160
 Phe Ser Phe Lys Pro Ala Ser Ser Ser Ser Ser Ser Gly Thr Ser Ser
 165 170 175
 Ser Gly Lys Asp Ile Ser Ser Gly Gly Ser Ser Val Ser Ser Thr Pro
 180 185 190
 Arg Ser Arg Phe Leu Glu Arg Leu Met Asp Arg Ser Arg Ser Arg Ile
 195 200 205
 Ser Arg Ser Arg
 210

<210> 31420

<211> 75

<212> PRT

<213> A.fumigatus

<400> 31420

Leu Gly Gly Ala Leu Ala Pro Arg Ser Gln Pro Val Leu Ala Asp Glu
 1 5 10 15
 Val Gln Thr Phe Lys Ala Leu Ile Thr Ile His Lys Val Leu Gln Glu
 20 25 30
 Gly His Pro Ile Val Val Arg Glu Ala Gln Gln His Val Asn Trp Ile
 35 40 45
 Asp Ser Leu Met Arg Gly Val Gly Gly Asp Gly Ile Arg Gly Met Arg
 50 55 60
 Gln Lys Trp Leu Gly Cys Arg Gly Ala Leu Gly
 65 70 75

<210> 31421

<211> 377

<212> PRT

<213> A.fumigatus

<400> 31421

Met Leu Thr Leu Leu Ser His Ile Ala Thr Gly Asp Asn Glu Ala Leu
 1 5 10 15
 Glu Pro Leu Arg Gly Arg Tyr Asp Ala Gln His Tyr Arg Leu Val Arg
 20 25 30
 Phe Tyr Tyr Glu Cys Ser Asn Leu Arg Tyr Leu Thr Ser Leu Ile Thr
 35 40 45
 Val Pro Lys Leu Pro Gln Asp Pro Pro Ser Leu Leu Ala Glu Asp Glu
 50 55 60
 Asp Arg Pro Ala Leu Pro Lys Arg Pro Thr Lys Glu Val Glu Lys Gln
 65 70 75 80
 Pro Ser Pro Pro Pro Lys Pro Val Ala Ala Glu Pro Glu Pro Ile Asn
 85 90 95
 Asp Phe Trp Thr Asn Glu Ala Lys Arg Gln Gln Glu Glu Phe Glu Ala
 100 105 110
 Glu Gln Arg Arg Leu Gln Gln Gln Trp Glu Glu Gln Gln Arg Gln Gln
 115 120 125
 Leu Leu Ala Gln Gln Gln Ala Gln Arg Glu Phe Glu Glu Gln Gln Arg
 130 135 140

12116

Leu Gln Ala Glu Gln Gln Arg Leu Ala Gln Glu Gln Leu Leu Arg Glu
 145 150 155 160
 Gln Tyr Gln Thr Gln Thr Gln Gly Arg Leu Ala Glu Leu Glu Arg Glu
 165 170 175
 Asn Leu Asn Ala Arg Ala Gln Tyr Glu Arg Asp Gln Leu Met Leu Gln
 180 185 190
 Gln Tyr Asp Arg Arg Val Lys Asp Leu Glu Glu Gln Met Ala Gln Leu
 195 200 205
 Thr Thr Asn Leu Asn Met Gln Asn Ala Ser Lys Asp Glu Gln Ile Arg
 210 215 220
 Ala Leu Gln Glu Gln Val Asn Thr Trp Arg Ser Lys Tyr Glu Ala Leu
 225 230 235 240
 Ala Lys Leu Tyr Ser Gln Leu Arg Gln Glu His Leu Asp Leu Leu Gln
 245 250 255
 Thr Thr Lys Ser Leu Lys Leu Lys Ala Ala Ser Ala Gln Glu Ala Ile
 260 265 270
 Glu Lys Arg Glu Lys Leu Glu Arg Glu Leu Lys Thr Lys Asn Leu Glu
 275 280 285
 Leu Ala Asp Met Ile Arg Glu Arg Asp Arg Ala Leu His Asp Arg Asp
 290 295 300
 Arg Leu Thr Gly Thr Asn Lys Glu Glu Leu Glu Lys Leu Lys Arg Glu
 305 310 315 320
 Leu Arg Leu Ala Ile Glu Arg Ala Glu Asn Ala Glu Arg Ser Lys Gly
 325 330 335
 Thr Glu Ile Ser Thr Leu Leu Ser Lys Tyr Asn Arg Glu Met Ala Asp
 340 345 350
 Leu Glu Glu Ala Leu Arg Val Ser Leu Leu Thr Trp Lys Phe Ser Leu
 355 360 365
 Thr Ser Leu Leu Thr Leu Leu Pro Glu
 370 375

<210> 31422

<211> 92

<212> PRT

<213> A.fumigatus

<400> 31422

Leu Cys Pro Ser Arg Pro Thr Val Met Thr Ser Ala Asp His Cys Ser
 1 5 10 15
 Arg Tyr Glu Thr Ile Thr Asp Leu Met Thr Leu Gln Asp His Ile Asp
 20 25 30
 Thr Phe Gln Lys Leu Ile Phe Ser His Phe Gln Ser Gly Thr Asn Asn
 35 40 45
 Glu Cys Arg Ile Ser Ala Leu Val Pro Leu Val Gln Glu Ser Tyr Gly
 50 55 60
 Ile Tyr Lys Phe Ile Thr Ser Met Leu Arg Ala Met His Thr Ser Lys
 65 70 75 80
 His Pro Leu Val Arg Ser Arg Met Leu Phe Glu Cys
 85 90

<210> 31423

<211> 134

<212> PRT

<213> A.fumigatus

<400> 31423

12117

Leu Ala Pro Ala Lys Arg Glu Ser Val Arg Leu Ser Lys Arg Phe Ala
 1 5 10 15
 Cys Ser Ser Ser Trp Ser Ala Ala Pro Ser Ala Pro Pro Asn Pro Ser
 20 25 30
 Arg Gly Asp His Ile Ala Ala Ala Ser Ala Gly His Ala Arg Thr Ala
 35 40 45
 Pro Gly His Ser Gly Phe Pro Val Gln Ala Gln Pro Ile Asp Pro Glu
 50 55 60
 Ser Gly Ser Asp Thr Ala His Ala Gly Val Val Pro Glu Pro Val Ala
 65 70 75 80
 Ala Ala Leu Pro Ala Asp Ala Ala Val Pro Gln Thr His Val Ala Pro
 85 90 95
 Ala Ala Ala Gln Glu Val Ala Asp Ala Ala Val Leu Pro Thr Val Ala
 100 105 110
 Glu Gly Val Ala Ala Leu Leu Gln Thr Pro Pro Val Asp Ala Ser Pro
 115 120 125
 Arg Trp Ser Arg Ser Arg
 130

<210> 31424

<211> 88

<212> PRT

<213> A.fumigatus

<400> 31424

Arg His Met His Lys Ser Ala Glu Cys Ser Pro Ala Ala Lys Pro Phe
 1 5 10 15
 Leu Pro His Thr Ser Asp Pro Ile Pro Ser Asn Ala Pro His Gln Ala
 20 25 30
 Val Asn Pro Ile Asp Met Leu Leu Arg Phe Ser His His Asn Arg Val
 35 40 45
 Thr Phe Leu Gln Asn Phe Met Tyr Arg Asn Gln Gly Leu Glu Arg Leu
 50 55 60
 Asn Phe Val Gly Lys His Arg Leu Thr Thr Arg Ser Gln Ser Ala Thr
 65 70 75 80
 Lys Ser Val Ile Ile Ser Thr Thr
 85

<210> 31425

<211> 73

<212> PRT

<213> A.fumigatus

<400> 31425

Ile Thr Leu Asp Ser Leu Lys Lys Trp Asp Gly Gly His Leu Glu Glu
 1 5 10 15
 Lys Asp Ile Asp Trp Ala Thr Pro Ala His Leu Ala Asp Arg Arg Met
 20 25 30
 Val Phe Val Ala Arg Glu Leu Leu Lys Ala Ala Leu Ala Ile Ala Gln
 35 40 45
 Asp Pro Phe Ala Glu Ser Pro Tyr Met Glu Lys Ala Ile Glu Glu Gly
 50 55 60
 Leu Ala Ile Glu Gly Gly Arg Phe Leu
 65 70

<210> 31426

12118

<211> 153
<212> PRT
<213> A.fumigatus

<400> 31426

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Leu Leu Pro Leu Gln Arg Ala Ser Ile Ile Leu Arg Phe Cys Arg Lys
1          5          10          15
Glu Lys Ala Met Ser Ile Gly Lys Asp Asp Asp Tyr Val Val Ser Tyr
20          25          30
Arg Gly Glu Val Val Glu Asn Arg His Lys Val His Ala Ser Val Val
35          40          45
Asp Ala Thr Gly Lys Gln His Phe His Val Gly Asp Pro Ser Arg Ile
50          55          60
Thr Leu Ala Arg Ser Ala Ala Lys Pro Ala Gln Ala Leu Ala Ile Leu
65          70          75          80
Glu Thr Gly Ala Phe Glu Gln Phe Asp Leu Asp Asp Ala Asp Leu Ala
85          90          95
Leu Met Cys Ala Ser His Ser Ser Glu Glu Arg His Ile Thr Arg Ala
100          105          110
Arg Asn Met Leu Ala Lys Ala Gln Val Lys Glu Asp Asp Leu Arg Cys
115          120          125
Gly Gly His Pro Ala Leu Ser Ala Thr Val Asn Ile Glu Leu Ser Leu
130          135          140
His Pro Gly Ala Gly Arg Asn Arg Val
145          150

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<210> 31427
<211> 105
<212> PRT
<213> A.fumigatus

<400> 31427

```

Leu Thr Tyr Phe Thr Tyr Leu Val Leu Gly Thr Val Ala His Thr Phe
1          5          10          15
Arg Leu Ala Asp Gly Tyr Trp Ile Trp Arg Pro Ala Leu Leu Gln Arg
20          25          30
Lys Thr Asn Cys Trp Ser Tyr Cys Ser Leu Pro Ile Ile Ile Ile Ser
35          40          45
Ser Phe Phe Cys Phe Pro Cys Pro Pro Leu Ser Leu Phe Val Tyr Arg
50          55          60
Ser Leu Arg Gln Ser Thr Ser Thr Arg Pro Pro Thr Ala Ala Ser Ser
65          70          75          80
Thr Ser Glu Cys Asn Leu Ser Leu Leu Thr Thr Thr Ile Thr Ile Thr
85          90          95
His Ser Ser Ala Arg Val Lys Tyr Phe
100          105

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<210> 31428
<211> 151
<212> PRT
<213> A.fumigatus

<400> 31428

```

Ser Arg Gln Val Thr Gly Lys Ala Asn Arg Pro Asp Thr Thr Pro Pro
1          5          10          15
Thr Val Pro Val Arg Lys Pro Glu Phe Leu Pro Ser Arg Glu Thr Ser

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[illegible]

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<210> 31429
<211> 62
<212> PRT
<213> A.fumigatus
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<210> 31430
<211> 131
<212> PRT
<213> A.fumigatus
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[illegible]

130

<210> 31431
 <211> 89
 <212> PRT
 <213> A.fumigatus

<400> 31431
 Leu Gly Glu Ile Gly Gln Ala Gly Asn Ile Leu Ala Glu Thr Gly Ala
 1 5 10 15
 Ala Glu Pro Glu Ser Gly Phe Glu Glu Leu Ser Ser Asn Ala Arg Ile
 20 25 30
 Gln Thr Asp Ser Leu Ser Tyr Leu Val Asp Leu Ser Ser Cys Phe Leu
 35 40 45
 Ala Asn Ser Thr Asp Arg Val Asp Ala Ala Asp Ser Leu Gly Glu His
 50 55 60
 Gly Val Gly Tyr Lys Leu Cys Glu Phe Gly Arg Pro Cys Val Asp Leu
 65 70 75 80
 Glu Asp Ala Arg Arg Gly His Pro Arg
 85

<210> 31432
 <211> 199
 <212> PRT
 <213> A.fumigatus

<400> 31432
 Arg Thr Ser Ala Leu Trp Ala Leu Asp Thr Ser Val Cys Leu Cys Tyr
 1 5 10 15
 Ser Val Ser Val Val Gln Ser Leu Ile Val Thr Gly Gly Pro Thr Ala
 20 25 30
 Ala Val Met Ala Leu His Asn Pro Ser Ile Ser Val Glu Val Leu Asp
 35 40 45
 Arg Asp Pro Val Arg Ile Arg Gln Trp Asn Ser Pro His Leu Pro Val
 50 55 60
 His Glu Pro Gly Leu Ile Asp Val Val Arg Val Thr Arg Asp Gly Ala
 65 70 75 80
 Glu Ile Val Asn Gln Glu Thr Thr Ser Leu Val Ser Ala Thr Arg Leu
 85 90 95
 Lys Arg Arg Ala Asn Leu Phe Phe Thr Ser Asp Ser Val Thr Ser Ile
 100 105 110
 Ser Arg Ala Asp Val Ile Met Leu Ala Val Asn Thr Pro Thr Lys Thr
 115 120 125
 Phe Gly Leu Gly Ala Gly Arg Ala Thr Asn Met Ser Ala Ile Asp Glu
 130 135 140
 Ala Val Arg Gln Ile Ala Ile Tyr Ala Lys Pro Gly Ala Ile Ile Val
 145 150 155 160
 Glu Lys Ser Thr Val Pro Cys Gly Thr Ala Gln Arg Ile Arg His Leu
 165 170 175
 Val Arg Thr Ile Asp Leu Met Cys Leu Leu Phe Ile Asp Arg Lys Val
 180 185 190
 Thr Ile Tyr Ser Trp Pro Leu
 195

<210> 31433
 <211> 401

<212> PRT

<213> A.fumigatus

<400> 31433

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Leu Ala Thr Leu Arg Pro Gly Val Pro Phe Glu Val Leu Ser Asn Pro
1      5      10      15
Glu Phe Leu Ser Glu Gly Ser Ala Ile Glu Asn Leu Ile Ser Pro Asp
      20      25      30
Arg Val Leu Ile Gly Ser Ser Gly Thr Pro Ser Gly Arg His Ala Ala
      35      40      45
Arg Thr Leu Ala Gln Ile Tyr Ser Ser Trp Val Pro Ser Ser Arg Ile
      50      55      60
Leu Glu Val Asn Thr Trp Ser Ser Glu Leu Ala Lys Leu Val Ala Asn
65      70      75      80
Ala Met Leu Ala Gln Arg Ile Ser Ser Ile Asn Ser Ile Ser Ala Ile
      85      90      95
Cys Glu Lys Thr Gly Ala Glu Val Asp Gln Val Ala Gln Ala Ile Gly
      100      105      110
Leu Asp Ala Arg Ile Gly Ala Gln Phe Leu Lys Ala Gly Leu Gly Phe
      115      120      125
Gly Gly Ser Cys Phe Arg Lys Asp Ile Ala Ser Leu Thr Tyr Leu Ala
      130      135      140
Glu Ser Leu Gly Leu Glu Asp Val Ala His Tyr Trp Ser Gln Val Asn
145      150      155      160
Val Met Asn Glu Met Gln Arg Asp Arg Phe Ala Arg Lys Val Ile Glu
      165      170      175
Arg Phe Asp Gly Asn Leu Thr Gly Arg Lys Ile Ala Met Leu Gly Phe
      180      185      190
Ala Phe Lys Lys Asn Thr Gly Asp Thr Arg Glu Ser Leu Ala Ala Asp
      195      200      205
Val Ile Arg Leu Leu Leu Glu Lys Pro Met Glu Ile Ala Ile Phe
      210      215      220
Asp Pro Tyr Cys Leu Glu Lys Asp Ile Met Arg Glu Val Glu Arg Ala
225      230      235      240
Cys Gly Thr Leu Asp Gly Arg Ile Val Lys Val Phe Pro Asp Pro Tyr
      245      250      255
Gln Ala Cys Ser Gln Ala Asp Ala Val Leu Ile Ile Ser Asp Cys Asp
      260      265      270
Gln Phe Arg Asn Met Pro Thr Arg Ser Lys Pro Asn Pro Phe Ala Ser
      275      280      285
Gln Thr Glu Ala Lys Ala Ala Asn Thr Leu Ser Lys Ala Ile Ile Ser
      290      295      300
Lys Asp Pro Glu Glu Asp Ile Trp Ser Cys Asn Ser Leu Ser Tyr Arg
305      310      315      320
Leu Ser Pro Gln Lys Pro Cys Asp Asp Cys Glu Val Cys Arg Leu Thr
      325      330      335
Val Asn Tyr Pro Thr Ala Thr Glu Pro Val Glu Trp Ala Arg Ile Ala
      340      345      350
Tyr Asn Met Lys Ala Pro Lys Leu Val Ile Asp Gly Arg Gly Ile Leu
      355      360      365
Asp Val His Glu Met Glu Lys Leu Gly Val His Val Asp Ala Val Gly
      370      375      380
Arg Arg Pro Pro Val Ile Ser Thr Gly Ile Asp Pro Leu Asn Cys Asp
385      390      395      400
Ile

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<210> 31434
 <211> 136
 <212> PRT
 <213> A.fumigatus

<400> 31434
 His Ser Thr Ile Glu Gln Ile Lys Arg Leu Gln Gln Asn Gly Asn Val
 1 5 10 15
 Glu His Glu Phe Phe Ile Phe Trp Leu Pro Arg Arg Thr Phe Val Ser
 20 25 30
 Asn Lys Ile Leu Glu Asp Ala Gly Ile Ile Gly Asp Val Asn Ile Phe
 35 40 45
 Glu Phe Pro Leu Tyr Phe Val Pro Leu Glu Gln Asp Val Leu Ser Leu
 50 55 60
 Glu Leu Asp Asp Ser Phe Gly Asp Leu Tyr Leu Val Arg Thr Arg Asn
 65 70 75 80
 Ile Val Ser Leu Gln Pro Ile Cys Leu Ser Ser Arg Ser Ile Lys Ile
 85 90 95
 Gln Val Val Ser Ser Ser Pro Gln Arg Leu Ser Trp Ile Phe Ser Lys
 100 105 110
 Asp Met Val Ile Phe Leu Glu Ser Leu Gly Arg Glu Ile Thr Arg Ala
 115 120 125
 Asp Ser Gln Thr Phe Cys Cys Gly
 130 135

<210> 31435
 <211> 311
 <212> PRT
 <213> A.fumigatus

<400> 31435
 Ser Leu Leu Gly Lys Asn Gln Lys Tyr Cys Leu Thr Ala Thr His Leu
 1 5 10 15
 Leu Ile Ile Thr Gln His Lys Asp Pro Gly Cys Ile Phe Leu Ala Ala
 20 25 30
 Lys Ala Leu Met Asp Ile Gln Gln Arg His Gly Tyr Phe Pro Arg Ile
 35 40 45
 Ile Gly Lys Gly Asp His Ala Arg Arg Leu Ala Asp Leu Leu Leu Arg
 50 55 60
 Met Arg Lys Glu Leu Asp Ala Glu Glu Ser Ser Gly Leu Arg Gly Pro
 65 70 75 80
 Ser Ala Arg Gly Leu Leu Pro Ser Ala Ser Thr Glu Ser Leu Ile Ile
 85 90 95
 Ile Asp Arg Met Val Asp Phe Gly Thr Pro Leu Leu Thr Gln Leu Thr
 100 105 110
 Tyr Glu Gly Leu Ile Asp Glu Phe Val Gly Ile Lys Asn Asn Gln Ala
 115 120 125
 Asp Val Asp Thr Ala Ile Val Gly Ala Asn Ser Val Pro Gln Ala Gln
 130 135 140
 Glu Ser Ser Lys Ala Pro Gln Gln Thr Leu Lys Gln Gly Gln Lys Arg
 145 150 155 160
 Lys Ile Gln Leu Asp Ser Ser Asp Gln Leu Phe Ser Gln Val Arg Asp
 165 170 175
 Ala Asn Phe Ala Ile Val Gly Asp Ile Leu Asn Lys Val Ala Arg Arg
 180 185 190

12123

Leu Glu Ser Glu Tyr Glu Thr Arg His Ala Ala Lys Thr Ala Ser Glu
 195 200 205
 Leu Arg Glu Phe Val Asn Lys Leu Pro Ala Tyr Gln Leu Glu His Gln
 210 215 220
 Ser Leu Arg Val His Thr Asn Leu Ala Gln Glu Ile Met Arg Asn Thr
 225 230 235 240
 Arg Ser Asp Ile Phe Arg Lys Val Leu Glu Val Gln Gln Asn Asn Ala
 245 250 255
 Ala Gly Thr Asp Pro Thr Tyr Gln His Asp Thr Ile Glu Glu Leu Ile
 260 265 270
 Ala Arg Asp Val Pro Leu Lys Thr Val Leu Arg Leu Leu Cys Leu Glu
 275 280 285
 Ser Cys Met Ser Gly Gly Leu Arg Ser Arg Asp Leu Glu Asn Phe Lys
 290 295 300
 Lys Gln Ile Val His Ala Tyr
 305 310

<210> 31436

<211> 159

<212> PRT

<213> A.fumigatus

<400> 31436

His Gln His Ile Leu Thr Phe Ser Ala Leu Glu Lys Met Glu Leu Leu
 1 5 10 15
 Gln Pro Arg Ser Ser Asp Ala Thr Met Leu Ile Gln Thr Ala Gly Ala
 20 25 30
 Gln Pro Gly Ser Lys Thr Asn Tyr Asn Tyr Leu Arg Lys Asn Leu Arg
 35 40 45
 Val Leu Val Glu Glu Val Ser Glu Lys Asp Pro Asn Asp Ile Ala Tyr
 50 55 60
 Val Tyr Ser Gly Phe Ala Pro Leu Ser Ile Ser Leu Val Leu Cys Val
 65 70 75 80
 Leu Gln Lys Pro Tyr Ile Phe Ser Leu Val Lys Gly Gly Ala Ala Ser
 85 90 95
 Ala Thr Ser Thr Pro Ala Ser Thr Ala Ser Pro Gly Trp Leu Gly Phe
 100 105 110
 Glu Asp Val Val Lys Ser Ala Arg Gly Ala Thr Phe Ser Ile Val Gln
 115 120 125
 Lys Gly Asp Asp Lys Ala Val Arg Ala Arg Gln Thr Leu Ser Gly Asn
 130 135 140
 Asn Ala Thr Lys Ile Val Tyr Val Phe Phe Leu Gly Gly Ala Cys
 145 150 155

<210> 31437

<211> 272

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (201)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31437

Met Ile Tyr Trp Tyr Ile Asn Leu Gln Thr Pro Thr Ala Thr Ser Leu

12124

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1           5           10           15
Thr Ile Arg Tyr Leu Val Leu Ser Thr Asn Asn Asp Glu Met Pro Ser
20           25           30
Ile Lys Asn Ser Thr Ile Val Ile Phe Gly Gly Ser Ser Gly Ile Gly
35           40           45
Tyr Gly Val Ala Asp Lys Cys Leu Ser Glu Gly Ala Val Val His Ile
50           55           60
Ser Ser Ser Asn Pro Thr Arg Ile Thr Gln Ala Val Ser Ser Leu Lys
65           70           75           80
Glu Lys Tyr Pro Glu Gly Gln Val Thr Gly His Thr Cys Asp Leu Ser
85           90           95
Leu Pro Asp Val Glu Gln Gly Leu Val Lys Leu Phe Glu Glu Ile Ala
100          105          110
Ser Cys Asp His Ile Val Tyr Thr Ala Gly Asp Ala Leu Ala Val Arg
115          120          125
Pro Leu Lys Asp Leu Asp Leu Gln Phe Ile Gln Lys Ala Gly His Ile
130          135          140
Arg Phe Asp Val Pro Leu Leu Val Ala Lys Leu Ala Leu Arg Val Leu
145          150          155          160
Lys Pro Gly Tyr Thr Ser Ser Leu Ile Leu Thr Gly Gly Ala Val Gly
165          170          175
Asp Arg Pro Gln Pro Asp Trp Ala Val Val Ala Gly Tyr Ala Ala Gly
180          185          190
Leu Tyr Gly Met Val Arg Gly Leu Xaa Leu Asp Met Lys Pro Leu Arg
195          200          205
Val Asn Phe Val Ser Pro Gly Pro Val Lys Thr Gly Leu Phe Thr Asp
210          215          220
Glu Leu Ala Glu Met Phe Ala Lys Lys Thr Thr Leu Gly Lys Val Gly
225          230          235          240
Ser Val Lys Glu Ala Ala Glu Ala Tyr Val Tyr Leu Met Lys Asp Thr
245          250          255
Asn Ala Thr Gly Ile Cys Val Ser Thr Asn Ala Gly Ser Leu Leu Val
260          265          270

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<210> 31438

<211> 143

<212> PRT

<213> A.fumigatus

<400> 31438

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Arg Asp Phe Gly Pro Asp Lys Tyr His Leu Ile Pro Pro His Gly Arg
1           5           10           15
Trp Gln His Phe Glu Val Gly Gly Val Ser Arg Pro Glu Ser Leu Leu
20           25           30
Lys Gln Trp Lys Ser Asp Gly Ala Asn Pro Leu Glu Gln Thr Arg Gly
35           40           45
Leu Leu Asp Leu Phe Phe Val Ser Val Leu Leu Asp Ala Gly Ala Gly
50           55           60
Asp Arg Trp Arg Phe Thr Glu Pro Asp Thr Asp Ile Val Val Gly Arg
65           70           75           80
Ser Glu Gly Thr Ala Leu Ala Ser Tyr Asn Met Phe Val Asn Gly Asp
85           90           95
Phe Ser Thr Val Asp Ser Glu Arg Arg Asp Val Val Met Gly Ser Ser
100          105          110
His Thr Leu Pro Ser Asp Lys Ser Arg Thr Lys Tyr Gln Gln Gly Lys
115          120          125

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Pro Ser Arg Thr Leu Thr Leu Gln Leu Cys Asn Ala Val Ser Arg
 130 135 140

<210> 31439

<211> 69

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (45), (47), (53), (56), (58)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31439

Thr Arg Ile Glu Lys Arg Ala Leu Pro Ile Thr Gly Lys Gly Phe Pro
 1 5 10 15
 Glu Ala Ser Tyr Arg Lys Ile Ala Val Tyr Thr Leu Met Gln Gly Leu
 20 25 30
 Phe His His Ser Ser Arg Ile Pro Arg Ser Gly Ser Xaa Pro Xaa Val
 35 40 45
 Arg Gly Leu Ala Xaa Thr Ala Xaa Lys Xaa Tyr Pro Ser Asn Gly Lys
 50 55 60
 Thr Pro Lys Leu Leu
 65

<210> 31440

<211> 62

<212> PRT

<213> A.fumigatus

<400> 31440

Pro Ala Asn His Pro Arg Ser Glu Thr Leu Gln Phe Ala Pro Gln Pro
 1 5 10 15
 Ala Thr Asp Phe His Val Arg Phe Pro Lys Asp Tyr Leu Asp Gly Asn
 20 25 30
 Gly Pro Asn Ser Ile Gly Phe Glu Tyr Ala Leu Cys His Glu Arg Thr
 35 40 45
 Tyr Gly Phe Arg Ser Ser Ser Arg His Thr Ser Gly Pro Tyr
 50 55 60

<210> 31441

<211> 96

<212> PRT

<213> A.fumigatus

<400> 31441

Ser Leu Leu Ala Arg Glu Arg Thr Ser Val Pro Arg Gly Val Tyr Met
 1 5 10 15
 Ala Thr Leu Ser Gly Cys Phe Ser Cys Arg Thr Phe Arg Asp Arg Gln
 20 25 30
 Leu Leu Leu His Lys Gly Ala Asp Ile Asn Ser Ser Gly Ser Glu Tyr
 35 40 45
 Asp Asn Ala Val Tyr Ala Ala Ser Ala Arg Gly His Gln Glu Thr Val
 50 55 60
 Gln Leu Leu Val Glu Asn Gly Ala Glu Val Asn Gly Gln Gly Glu Lys
 65 70 75 80

Tyr Asp Asn Ala Phe Gln Ala Ala Ser Asp Arg Pro Ser Arg Glu Cys
 85 90 95

<210> 31442

<211> 446

<212> PRT

<213> A.fumigatus

<400> 31442

Thr Leu Ser Ala Asp Pro Ser Ser Pro Val Gly Glu Glu His His His
 1 5 10 15
 Leu Pro Phe Leu His Gln Glu Ser Phe Lys Pro Thr Met Ala Ser Pro
 20 25 30
 Pro Leu Leu Leu Ala Val Leu Ser Ile Gly Ala Leu Tyr Thr Phe Glu
 35 40 45
 Arg Glu His Ala Phe Met Leu His Val Gly Ser Lys Met Leu Val Asn
 50 55 60
 Gln Phe Leu Gln His Lys Glu Asn Phe Asp Ser Arg Lys Cys Pro Leu
 65 70 75 80
 Trp Ser Met Gln Ser Thr Leu Leu Asn Met Ile Phe Glu Ser Trp Ser
 85 90 95
 Gly Asp Pro Lys Gly Leu Glu Trp Thr Cys Ser Ile Lys Ser Leu Leu
 100 105 110
 Ala Asn Met Val Ala Gly Asn Arg Tyr Gln Leu Lys Val Arg Thr Glu
 115 120 125
 Ala Arg Glu Gly Arg Gln Pro Thr Arg Asp Glu Trp Ile Glu Asp Glu
 130 135 140
 Ser Cys Arg Arg Thr Tyr Tyr Ala Val Tyr Ile Phe Phe Gly Met Leu
 145 150 155 160
 Thr Leu Thr Phe Asn His Thr Pro Ala Met Ser Phe Asp Glu Phe Asp
 165 170 175
 Asn Leu Glu Leu Pro Ser Ser Glu Ser Met Trp Asn Leu Asp Val Asn
 180 185 190
 Asp Asp Glu Ala Trp Arg Arg Ser Leu Ser Ser Ala Ser Thr Leu Thr
 195 200 205
 Val Arg Glu Ala His Asp Cys Leu Phe Gln Gly Glu Arg Thr Arg Tyr
 210 215 220
 Ser Ala Phe Ala Thr Arg Val Leu Ile Asn Ala Leu Phe Leu Gln Val
 225 230 235 240
 Trp Asn His Lys Arg Thr Phe Glu Ala Leu Gln Asp Val Val Thr Glu
 245 250 255
 Tyr Lys Leu Arg Leu Ala Leu Glu Thr Trp Glu Ser Ser Leu Glu Val
 260 265 270
 Cys Glu Pro Glu Thr Ile Val Val Pro Leu Ser Thr Pro Gln Asn Gly
 275 280 285
 His Pro Leu Ile Phe Asn Ser Met Ala Val Tyr Arg Asn Thr Arg Ala
 290 295 300
 Arg Leu Glu Val Asp Leu Lys Ser Ile Gln Glu Ala Leu Arg Tyr His
 305 310 315 320
 Ser Ser Tyr Glu Val Ala Ala Ala Met Thr Val Ala Arg Glu Lys Val
 325 330 335
 Lys Arg Ser Gly Glu Met Asn Lys Val Ile Gln Ser Cys Phe Glu Cys
 340 345 350
 Ile Glu Ile Ala Ala Val Gln Gly Ile Asn Trp Val Ala Lys Thr Ser
 355 360 365
 Ala Thr Asn Trp Ser Val Glu His Pro Leu Cys Gly Leu Asp Leu Met

12127

370	375	380
Val Ile Leu Ser Leu Trp Leu Tyr Arg Leu Glu His Asp Glu Glu Pro		
385	390	395 400
Ala Thr Glu Ala Glu Leu Ala Ile Tyr Asn Lys Val Arg Asn Leu Phe		
	405	410 415
Asp Asp Asp Ala Val Asp Ala Phe Gly Lys Leu Ser Ser Thr Val Ala		
	420	425 430
Arg Val Trp Gly Asn Ile Leu Asp Gly Val Val Val Trp Gly		
	435	440 445

<210> 31443
 <211> 74
 <212> PRT
 <213> A.fumigatus

<400> 31443
Val Ser Leu Tyr Pro Ser Arg Ile Ala Arg Leu Lys Lys Gln Met Glu
1 5 10 15
Arg Lys Gly Arg Ala Ser Leu His Tyr Ala Ala Glu Asp Gly His Trp
20 25 30
Glu Ala Val Lys Leu Leu Ser Lys His Asp Cys Val Ser Val Gln Ala
35 40 45
Arg Asp Asn Ser Ser Arg Arg Asp Met Asp Leu Ala Leu Asp Asn Asp
50 55 60
Phe Tyr Asp Val Phe Lys Ala Leu Gln Asp
65 70

<210> 31444
 <211> 82
 <212> PRT
 <213> A.fumigatus

<400> 31444
Asn Leu Pro Ser Ser Gly Leu Val Ser Gly Val Asn Met Phe Phe Phe
1 5 10 15
His Gly Ser Arg Ser Lys Pro Ser Thr Thr Thr Ser Pro Cys Gly Ser
20 25 30
Pro Met Ala Leu Ser Phe Leu Phe Ile Ile Phe Phe Glu Ile Gln Pro
35 40 45
Leu Phe Thr Arg Ile Val Leu Ser Pro Ser Pro Leu Ser Ser Gly Val
50 55 60
Thr Thr Met Lys Pro Ser Trp Pro Ser Arg Met Arg Gly Pro Ile Asn
65 70 75 80
Ile Ser

<210> 31445
 <211> 106
 <212> PRT
 <213> A.fumigatus

<400> 31445
Ala Thr Ile Pro Gly Ser Gln Lys Arg Glu Asp Ile Lys Thr Val Met
1 5 10 15
Phe Tyr Ser Gly Gly Leu Gln Glu Gly Ile Ser Leu Ala Val Thr Glu
20 25 30

12128

Arg Lys Ala Val Val Cys Phe Val Arg Gly Leu Ser Val Ile Pro Arg
 35 40 45
 Thr Ile Thr Tyr Asp Ala Thr Ile Thr Gln Ser Arg Met Leu Ile Asp
 50 55 60
 Gly Glu Ser Val Asp Asp Glu Glu Asn Ser Asn Ile Trp Glu Glu Glu
 65 70 75 80
 Tyr Phe Lys Asp Asp Glu Val Asn Pro Ser Met Met Ala Ile Ala Val
 85 90 95
 Val Trp Leu Leu Thr Pro Met Pro Ser Thr
 100 105

<210> 31446
 <211> 235
 <212> PRT
 <213> A.fumigatus

<400> 31446
 Pro Pro Cys Ala Asp Cys Thr His Gly Thr Gln Ala Trp Ala Trp Pro
 1 5 10 15
 Asn Asn Ser Arg Tyr Ser Ala Pro His Thr Ala Arg Asp Val Ser Gly
 20 25 30
 Ser Ile Phe Val Asn Lys Ser Leu Leu Thr Asn Tyr Asn Trp Pro Asp
 35 40 45
 Ala Ala Leu Ile Pro Val Thr Ala Phe Ile Leu Gly Thr Trp Gln Val
 50 55 60
 Gln Arg Leu Asp Trp Lys Thr Lys Leu Ile Ala Lys Phe Glu Asp Arg
 65 70 75 80
 Leu Leu Lys Pro Pro Leu Pro Leu Pro Pro Arg Ile Asp Pro Thr Ala
 85 90 95
 Ile Ser Glu Phe Asp Tyr Arg Arg Val Tyr Ala Thr Gly His Phe Arg
 100 105 110
 His Asp Gln Glu Met Leu Ile Gly Pro Arg Met Arg Glu Gly Gln Glu
 115 120 125
 Gly Phe Ile Val Val Thr Pro Leu Glu Arg Gly Glu Gly Glu Ser Thr
 130 135 140
 Ile Leu Val Asn Arg Gly Trp Ile Ser Lys Lys Met Met Asn Lys Lys
 145 150 155 160
 Asp Arg Ala Ile Gly Leu Pro Gln Gly Glu Val Val Val Glu Gly Leu
 165 170 175
 Leu Arg Glu Pro Trp Lys Lys Asn Met Phe Thr Pro Glu Thr Lys Pro
 180 185 190
 Glu Glu Gly Lys Phe Tyr Phe Pro Asp Val His Gln Met Ala Glu Leu
 195 200 205
 Thr Gly Ser Gln Pro Ile Trp Ile Glu Gln Thr Met Gly Lys Gln Ile
 210 215 220
 Pro Ser Arg Ala Ser Arg Arg Ser Arg His Asp
 225 230 235

<210> 31447
 <211> 490
 <212> PRT
 <213> A.fumigatus

<400> 31447
 Ile Tyr Leu Ala Leu Glu Met Leu Leu Asn Val Pro Leu Arg Thr Leu
 1 5 10 15

Gly Thr Cys Leu Ser Arg Ala Pro Ser Ile Pro Leu Arg Ser Ile Arg
 20 25 30
 Asn Ala Ser Leu Thr Ser Ala Ile Gly Arg Gly Ile Arg Lys Thr Arg
 35 40 45
 Ser Val Glu Gly Arg Asn Glu Pro Gln Lys Ser Ser Thr Gly Asp Ser
 50 55 60
 Asp Gln Ser Arg Gly Gly Arg His Phe Gly Arg Ser Asp Ser Arg Arg
 65 70 75 80
 Asp Val Gly Ile Lys Ala Phe Asp Glu Glu Glu Phe Ile Lys Thr Gly
 85 90 95
 Arg Leu Arg Glu Leu Arg Ser Glu Gln Gly Ala Asp Leu Pro Glu Pro
 100 105 110
 Lys Arg Pro Arg Ile Gln Thr His Glu Arg Ala Lys Thr Ile Lys Glu
 115 120 125
 His Arg Lys Glu Arg Asp Leu Gln Asp Arg Ser Arg Leu Lys Arg Gly
 130 135 140
 Glu Ile Arg Phe Thr Glu Gly Glu Pro Glu Gln Gln Lys Lys His Val
 145 150 155 160
 Leu Val Pro Asp Ser Val Pro Tyr Thr Thr Pro Ala Ser Glu Phe Ile
 165 170 175
 Tyr Gly Thr Ser Ala Val Asp Ala Ala Leu Arg Ser Gly Arg Arg Gln
 180 185 190
 Leu Tyr Lys Leu Tyr Ile Tyr Gln Gly Asp Asn Glu Glu Leu Gly Pro
 195 200 205
 Thr Arg Ser Met Leu Arg Lys Leu Ala Leu Ser Lys Asn Ile Lys Val
 210 215 220
 Lys Met Ala Tyr Ala Gly Trp Asp Arg Leu Phe Asp Gln Met Ser Ser
 225 230 235 240
 Gly Arg Pro His Asn Gly Cys Ile Leu Asp Ala Ser Pro Leu Pro Gln
 245 250 255
 Leu Pro Val Lys Ser Phe Cys Ala Thr Gln Thr Leu Gly Ala Asp Glu
 260 265 270
 Phe Arg Val Val Leu Ala Pro Gln Ser Lys Glu Glu Ala Met Val Asn
 275 280 285
 Ser Thr Asn Asn Arg Val Pro Val Arg His Leu Pro Gly Gln Ser Arg
 290 295 300
 Tyr Pro Val Val Leu Leu Leu Asp Gly Ile Thr Asp Thr Gly Asn Leu
 305 310 315 320
 Gly Gly Ile Ile Arg Ser Ala Tyr Tyr Leu Gly Ile Asp Ala Ile Val
 325 330 335
 Phe Ala Gly Arg Asn Cys Ala Pro Leu Ser Pro Ile Thr Ile Lys Ala
 340 345 350
 Ser Ala Gly Ala Ala Glu Asn Met Pro Leu Ile Lys Val Ser Asn Glu
 355 360 365
 Val Asp Phe Ile Gln Gln Ser Lys Ala Asn Gly Trp Arg Phe Phe Ala
 370 375 380
 Ala Asp Ala Pro Leu Pro Gly Thr Arg Tyr Pro Asp Thr Thr Gly Asp
 385 390 395 400
 Ile Asp Leu Thr Arg Asn Ala Val Thr Gln Ala Pro Ser Val Ile Met
 405 410 415
 Leu Gly Ser Glu Gly Ser Gly Leu Ser Gly His Ile Lys Ser His Ala
 420 425 430
 Asp Ser Ile Val Ser Ile Pro Gly Ala Arg Asn Ala Thr Glu Trp Gly
 435 440 445
 Tyr Glu Lys Asp Pro Ala Arg Val Asp Ser Leu Asn Val Ser Val Ala
 450 455 460

12130

Ala Ala Ile Leu Met Glu Gln Phe Leu Arg Ile Pro Ile Leu Ile Thr
 465 470 475 480
 Glu Ala Pro Pro Arg Lys Ala Val Asn Lys
 485 490

<210> 31448
 <211> 74
 <212> PRT
 <213> A.fumigatus

<400> 31448
 Leu Asn Ser Met Ala Arg Ile Arg Arg Thr Leu Asn Gly Lys Asp Leu
 1 5 10 15
 Asn Leu Arg Phe Asn Glu His Pro Ser Gln Gly Leu Ser Lys His Leu
 20 25 30
 Asn Lys Ser Asn Pro Ser Arg Arg Met Arg Cys Leu Val Lys Cys Asp
 35 40 45
 Leu Leu Gln Leu Lys Tyr Leu Arg Ser Pro Thr Gln Lys Ser Met Asn
 50 55 60
 Phe Phe Leu Ala Ile Ser Gly Ser Ala Met
 65 70

<210> 31449
 <211> 140
 <212> PRT
 <213> A.fumigatus

<400> 31449
 Val Thr Phe Ser His Leu Gln Thr Leu Glu Asn Gly Pro Glu Ala Leu
 1 5 10 15
 Leu His Phe Gln Ser Thr Asp Tyr Arg Ser Ser Ser Pro Thr Thr Ser
 20 25 30
 His Ile Thr Leu His Ser Ser Asp Lys Glu Asp Val Glu Ser Glu Thr
 35 40 45
 Arg Gly Arg Arg Ser Arg Arg Thr Lys Asn Ala Thr Phe Thr Asp Phe
 50 55 60
 Phe Gly Pro Leu Ser Ser Asp Asp Glu Pro Met Gly Asp Ala Ser Ser
 65 70 75 80
 Asp Asp Ile Ile Ser Ser Ser Ala Ile Thr Ala Arg Thr Arg Pro Leu
 85 90 95
 Lys Arg Asp Val Arg Asn Gln Val Pro Arg Arg Ser Arg Gln Gln Ser
 100 105 110
 Ser Ser Glu Asn Glu Phe Pro Asp Pro Arg Cys Asn Arg Phe Ser Asn
 115 120 125
 Ser Ala Ala Gly Arg Pro Cys Gly Gly Ile Leu Pro
 130 135 140

<210> 31450
 <211> 188
 <212> PRT
 <213> A.fumigatus

<400> 31450
 Thr Leu Leu Gln Ala Leu Lys Phe Ile Pro Asn His Arg Val Leu Pro
 1 5 10 15
 Glu Gly Phe Pro Thr Ser Phe Leu Glu Tyr Leu Ser Pro Arg Ser Thr


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<210> 31451
<211> 169
<212> PRT
<213> A.fumigatus
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<220>
<221> UNSURE
<222> (154)
<223> Identity of amino acid sequences at the above locations are unknown.
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198 2 100 4 1

<210> 31452
 <211> 337
 <212> PRT
 <213> A.fumigatus

<400> 31452

Trp	Glu	Cys	Ile	Cys	Ala	Val	Gln	Thr	Leu	Leu	Asp	Ala	Pro	Gly	Gln
1			5						10					15	
Tyr	Asp	Pro	Arg	Gly	Thr	Ala	Pro	Leu	Tyr	His	His	Ser	Phe	His	Gly
			20					25					30		
Gly	Glu	Leu	Gln	Lys	Ser	Arg	Ser	Ser	Glu	Leu	His	Ser	Ser	Ile	Pro
		35					40					45			
Gln	Cys	Cys	Cys	Arg	Gly	Pro	Thr	Ser	Ala	Gly	Lys	Thr	Ser	Met	Ile
	50					55					60				
Glu	Tyr	Leu	Ala	Lys	Val	Ser	Gly	Asn	Lys	Phe	Val	Arg	Ile	Asn	Asn
65					70					75					80
His	Glu	His	Thr	Asp	Leu	Gln	Glu	Tyr	Leu	Gly	Ser	Tyr	Val	Ser	Gly
			85						90					95	
Asp	Asp	Gly	Thr	Leu	Arg	Tyr	Gln	Glu	Gly	Val	Leu	Val	Glu	Ala	Leu
			100					105					110		
Arg	Asn	Gly	Tyr	Trp	Ile	Val	Leu	Asp	Glu	Leu	Asn	Leu	Ala	Pro	Ser
	115						120					125			
Asp	Val	Leu	Glu	Ala	Leu	Asn	Arg	Leu	Leu	Asp	Asp	Asn	Arg	Glu	Leu
	130					135					140				
Phe	Ile	Pro	Glu	Thr	Gln	Glu	Val	Val	His	Pro	His	Pro	Asn	Phe	Met
145					150					155					160
Leu	Phe	Ala	Thr	Gln	Asn	Pro	Ala	Gly	Leu	Tyr	Gly	Gly	Arg	Lys	Val
			165					170						175	
Leu	Ser	Arg	Ala	Phe	Arg	Asn	Arg	Phe	Leu	Glu	Leu	His	Phe	Asp	Asp
		180						185					190		
Ile	Pro	Glu	Ser	Glu	Leu	Glu	Phe	Ile	Leu	Lys	Glu	Arg	Ser	Gln	Ile
	195						200					205			
Ala	Pro	Ser	Phe	Cys	Thr	Arg	Ile	Val	Ser	Val	Tyr	Arg	Lys	Leu	Ser
	210					215					220				
Leu	Leu	Arg	Gln	Ala	Asn	Arg	Leu	Phe	Glu	Gln	Lys	Asn	Ser	Phe	Ala
225				230					235						240
Thr	Leu	Arg	Asp	Leu	Phe	Arg	Trp	Ala	Leu	Arg	Arg	Ala	Asp	Asp	Arg
			245					250					255		
Glu	Gln	Leu	Ala	Val	Asn	Gly	Phe	Met	Leu	Leu	Ala	Glu	Arg	Val	Arg
		260					265					270			
Asn	Pro	Gln	Glu	Arg	Ala	Ala	Val	Lys	Ala	Val	Ile	Glu	Glu	Val	Met
	275						280					285			
Lys	Val	Pro	Ile	Asp	Glu	Asp	Thr	Ile	Tyr	Ser	Ala	Ala	Glu	Leu	Glu
	290					295					300				
Lys	Arg	Ala	Pro	Asn	Leu	Lys	Glu	Leu	Ala	Pro	Gly	Ile	Val	Trp	Thr
305				310					315						320
Lys	Ala	Met	Arg	Arg	Leu	Phe	Val	Leu	Val	Ser	Val	Ala	Leu	Glu	Asn
			325					330						335	

Asn

<210> 31453
 <211> 192
 <212> PRT
 <213> A.fumigatus

<400> 31453

Pro Val Leu Leu Val Gly Glu Thr Gly Cys Gly Lys Thr Gln Leu Cys
 1 5 10 15
 Gln Ala Val Ala Glu Ile Cys Arg Lys Gln Leu Phe Ile Val Asn Ala
 20 25 30
 His Val Asn Leu Glu Thr Gly Asp Leu Ile Gly Ala Gln Arg Pro Val
 35 40 45
 Arg Asn Arg Ala Ala Ile Glu Thr Gln Leu Leu Asn Asp Leu Arg Thr
 50 55 60
 Val Val Asn Thr Gly Asp Ala Glu Pro Ile Ser Leu Asp Glu Leu Thr
 65 70 75 80
 Ser Thr Phe Ser Ala Met Thr Val Glu Gln Leu Glu Ala Cys Asp Thr
 85 90 95
 Glu Ile Val Gln Arg Ile Gln Lys Asn Ile Ala Arg Leu Asn Ala Leu
 100 105 110
 Phe Lys Trp Ser Asp Gly Ser Leu Ile Thr Ala Met Lys Thr Gly Gln
 115 120 125
 Phe Phe Leu Leu Asp Glu Ile Thr Leu Ala Asp Asp Ser Val Leu Glu
 130 135 140
 Arg Leu Asn Asn Val Leu Glu Pro His Ser Ser Ile Leu Leu Ala Glu
 145 150 155 160
 Lys Gly Pro Asn Asp Ser Met Val Val Ala His Gln Gly Phe His Ser
 165 170 175
 Leu Leu Thr Leu Asn Pro Gly Arg Arg Leu Pro Lys Ala Pro Ser Phe
 180 185 190

<210> 31454

<211> 307

<212> PRT

<213> A.fumigatus

<400> 31454

Tyr Val Tyr Ala Asp Pro Ser Gly Leu Arg Gly Glu Glu Val Thr Pro
 1 5 10 15
 Ser Ser Leu Ser Pro Ser Ser Arg Gly Lys Ile Val Arg Ala Leu Arg
 20 25 30
 Asn Gly Glu Trp Val Leu Leu Asp Glu Val Asn Leu Ala Ser Pro Asp
 35 40 45
 Thr Leu Glu Asn Ile Ala Ser Leu Leu His His Gly Ser Glu Gly Ser
 50 55 60
 Pro Ser Val Leu Leu Ser Glu Ala Gly Asp Val Glu Arg Val Phe Gly
 65 70 75 80
 His Pro Asp Phe Arg Ile Phe Gly Ala Met Asn Pro Ala Thr Asp Ala
 85 90 95
 Gly Lys Lys Asp Leu Pro Pro Gly Leu Arg Ser Arg Phe Thr Glu Ile
 100 105 110
 Tyr Val Gln Ser Pro Asp Thr Asp Leu Asp Asp Leu Leu Ala Leu Ile
 115 120 125
 Gln Lys Tyr Leu Gly Asp Leu Ala Ile Gly Asp Ser Arg Val Val Ser
 130 135 140
 Asp Leu Ala Gln Leu Tyr Met Glu Thr Lys Lys Leu Asn Asn Glu Asn
 145 150 155 160
 Lys Leu Thr Asp Gly Ala Gly Gln Arg Pro His Phe Ser Ile Arg Thr
 165 170 175
 Leu Val Arg Ala Leu Ile Tyr Val Leu Glu Asn Ala His Ile Tyr Gly
 180 185 190

12134

Leu Arg Arg Ala Val Phe Glu Gly Tyr Cys Met Ser Phe Leu Thr Val
 195 200 205
 Leu Ser Gln Glu Ser Glu Arg Leu Leu Leu Pro Leu Leu Glu Arg Tyr
 210 215 220
 Val Phe Gly Asn Ala Lys Asn Ala Arg Ala Leu Leu Gly Gln Thr Pro
 225 230 235 240
 Arg Pro Pro Asn Asp Gly Asn Ala Tyr Val Gln Phe Lys His Tyr Trp
 245 250 255
 Met Arg Gln Gly Ser Met Ile Pro Glu Ala Gln Pro His Tyr Ile Ile
 260 265 270
 Thr Pro Phe Met Glu Glu Asn Phe Lys Asn Leu Val Arg Ala Ser Ser
 275 280 285
 Thr Arg Arg Phe Pro Ser Ala Val Ala Gly Val Pro His Gln Arg Val
 290 295 300
 Lys Gln Ala
 305

<210> 31455

<211> 60

<212> PRT

<213> A.fumigatus

<400> 31455

Lys Leu Gly His Leu Ile Glu Glu Val Arg Glu Gly Leu His Val Arg
 1 5 10 15
 Asp Val Gly Ile Lys Ala Glu Thr Val Glu Asn Gly Asn Val Lys Thr
 20 25 30
 Lys Ala Ala Glu Ala Asp Ile Tyr Asp Phe Ala Val Val His Ile Leu
 35 40 45
 Ala Phe Arg Leu Ser Lys Val Phe Met Ser Asp Leu
 50 55 60

<210> 31456

<211> 347

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (5), (17), (18)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31456

Glu Arg Pro Pro Xaa Ile Tyr Met Arg Thr Ala Arg Leu Leu Glu Lys
 1 5 10 15
 Xaa Xaa Trp Pro Arg Pro Phe Trp Met Lys Ile Ser Glu Leu Leu
 20 25 30
 Lys Ser Thr Gly Arg Lys Tyr Ser Trp Gln Ser Cys Arg Arg Met
 35 40 45
 Gln Gln Tyr Val Glu Lys Arg Lys Thr Tyr Trp Ala Ala Phe Asp Ala
 50 55 60
 Asp Lys Thr Leu Pro Asp Leu Gly Asp Met Asp Glu Asp Leu Ala Ser
 65 70 75 80
 Asp Ile Asp Asp Trp Met Gly Arg Cys Glu Leu Arg Leu Gln Asn Glu
 85 90 95
 Glu Lys Glu Arg Arg Asp Lys Ala Gln Lys Thr Glu Leu Glu Gln Ala

[illegible]

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<210> 31457
<211> 198
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1),(38),(39),(110)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31457
Xaa Cys Leu Asn His Phe Val Glu Thr Tyr Asp Pro Thr Ile Glu Asp
1          5          10          15
Ser Tyr Arg Lys Gln Val Val Ile Asp Gln Gln Ser Cys Met Leu Glu
20          25          30
Val Leu Asp Thr Ala Xaa Xaa Glu Glu Tyr Thr Ser Leu Arg Asp Gln
35          40          45
Trp Ile Arg Asp Gly Glu Gly Ser Cys Leu Ser Thr Ala Ser His His
50          55          60
Ala Leu Arg Ser Leu Ala Tyr Lys Ser Ser Thr Pro Gly Thr Arg Leu
65          70          75          80
Ala Lys Ser Gln Pro Asn Ser Gly Arg His Ser Glu Pro Ala Ile Trp
85          90          95
Glu Ser Pro Met Asn Arg Ala Phe Gly Ser Ala Leu Pro Xaa Pro Val

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Leu	Pro	Pro	Val	Gln	Arg	Gly	Thr	Phe	Gln	Pro	Arg	Gly	Val	Lys	Thr
1				5					10					15	
Asn	Ile	Pro	Thr	Ala	Gln	Ala	Ser	Ala	Ser	Ser	Ala	Thr	Ala	Ala	Ser
			20					25				30			
Ile	Ala	Val	Ser	His	Ser	Ala	Ala	Ala	Cys	Ala	Ser	Lys	Ala	Ile	Thr
		35					40				45				
Lys	Thr	Arg	Val	Gln	Thr	Val	Met	Ser	Gln	Ala	Thr	Lys	Pro	Ser	Ser
	50					55					60				
Leu	Leu	Asn	Gly	Pro	Lys	Val	Phe	Glu	Arg	Ser	Lys	Pro	Gln	Tyr	Ala
65				70						75					80
Glu	Tyr	Ala	Ala	Ser	Ser	Phe	Val	Ser	Val	Lys	Ser	Ala	Gly	Ala	Lys
			85						90				95		
Gly	Asp	Gly	Xaa	Thr	Asp	Asp	Thr	Ala	Ala	Ile	Gln	Lys	Val	Leu	Asn
			100					105					110		
Ser	Val	Thr	Glu	Asp	Gln	Ile	Val	Tyr	Phe	Asp	His	Gly	Ala	Tyr	Ile
		115					120					125			
Ile	Thr	Asp	Thr	Ile	Lys	Val	Pro	Lys	Asn	Ile	Lys	Ile	Thr	Gly	Glu
	130					135					140				
Val	Trp	Pro	Leu	Leu	Met	Ala	His	Gly	Glu	Lys	Phe	Ala	Asp	Glu	Lys
145					150					155					160
Asn	Pro	Ile	Pro	Leu	Leu	Gln	Ile	Gly	Gln	Pro	Gly	Glu	Lys	Gly	Ser
			165						170					175	
Val	Glu	Ile	Thr	Asp	Leu	Ala	Ile	Gln	Thr	Lys	Gly	Pro	Ala	Pro	Gly
		180					185					190			
Ala	Ile	Leu	Met	Glu	Trp	Asn	Val	Ala	Glu	Ala	Ser	Gln	Gly	Ser	Val
	195					200						205			
Gly	Met	Trp	Asp	Val	His	Phe	Arg	Ile	Gly	Gly	Ser	Ala	Gly	Thr	Glu
	210					215					220				
Leu	Gln	Ser	Asp	Lys	Cys	Ser	Lys	Thr	Pro	Lys	Met	Thr	Thr	Thr	Pro
225					230					235					240
Asn	Pro	Gln	Cys	Ile	Gly	Ala	Phe	Met	Leu	Leu	His	Leu	Thr	Glu	Gln

[illegible]

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<210> 31459
<211> 153
<212> PRT
<213> A.fumigatus
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[illegible]

<210> 31460

<211> 90
 <212> PRT
 <213> A.fumigatus

<400> 31460

Lys	Met	Arg	Glu	Arg	Leu	Ile	Asp	Leu	Pro	Ala	Met	Thr	His	Ser	Pro
1			5						10					15	
Tyr	Ile	Thr	Ala	Ile	Asp	Thr	Val	Arg	Ala	Tyr	Thr	Ser	Gly	Pro	Arg
			20					25					30		
Leu	Leu	Val	Glu	Val	Asp	Ile	Val	Met	Asp	Pro	Glu	Glu	Ser	Leu	Arg
			35				40					45			
Ala	Thr	His	Asp	Val	Ala	Glu	Glu	Leu	Gln	Met	Lys	Leu	Glu	Ser	Leu
			50				55				60				
Pro	Asp	Val	Glu	Arg	Ala	Tyr	Val	His	Val	Asp	Tyr	Glu	Thr	Thr	His
65					70					75					80
Lys	Pro	Glu	His	Phe	Leu	Lys	Lys	Glu	Leu						
					85				90						

<210> 31461

<211> 151
 <212> PRT
 <213> A.fumigatus

<220>

<221> UNSURE

<222> (9)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31461

Thr	Ser	Arg	Gln	His	Trp	Val	Met	Xaa	Pro	Gln	Asp	Arg	Arg	Ile	Phe
1			5						10					15	
Asn	Leu	His	Arg	Leu	Phe	His	Pro	Arg	Leu	Val	Gly	Gly	Phe	Arg	Arg
			20					25					30		
Arg	Asp	Gly	Ser	Phe	Phe	Leu	Pro	Ser	Val	Ile	Ala	Val	Val	Val	Ala
			35				40					45			
Phe	Cys	Thr	Lys	Phe	Thr	Phe	Phe	Leu	Tyr	Trp	Trp	Ala	Leu	Arg	Asn
			50				55				60				
Gln	Val	Ser	Gln	Ile	Arg	Ile	Leu	Trp	Glu	Asp	His	Arg	Asn	Asp	Leu
65					70					75					80
Phe	Ile	Asn	Gly	Phe	Gly	Ile	Leu	Thr	Ser	Val	Gly	Gly	Ser	Lys	Leu
					85				90					95	
Arg	Trp	Trp	Ile	Asp	Pro	Met	Gly	Ala	Ile	Ile	Leu	Ser	Val	Leu	Ile
			100					105					110		
Ser	Val	Leu	Trp	Leu	His	Thr	Ala	Tyr	His	Glu	Phe	Gln	Leu	Leu	Ile
			115				120					125			
Gly	Val	Thr	Ala	Asp	Thr	Lys	Met	Gln	Gln	Leu	Ile	Thr	Tyr	Ile	Cys
			130				135					140			
Met	Phe	Leu	Pro	Leu	Ser	Gly									
145						150									

<210> 31462

<211> 146
 <212> PRT
 <213> A.fumigatus

<400> 31462

12139

Asp Cys Pro His Asp Thr Ser Ser Glu Ser His Val Ser Pro Ala Phe
 1 5 10 15
 Val Lys Val Phe Gly Glu Thr Leu Thr Leu Val Arg Lys Leu Phe Gln
 20 25 30
 Ser Thr Lys Pro Ser Ala Gln Pro Phe Val Ile Ser Gly Ser Gly Thr
 35 40 45
 Leu Gly Trp Asp Val Val Ala Ser Tyr Leu Ile Glu Lys Gly Glu Asn
 50 55 60
 Ala Leu Val Leu His Thr Gly Tyr Phe Ala Asp Ser Phe Ala Ala Cys
 65 70 75 80
 Leu Glu Thr Tyr Gly Ala His Ala Thr Gln Leu Lys Ala Pro Ile Gly
 85 90 95
 Asp Arg Pro Ser Phe Glu Gln Ile Glu Gln Ala Leu Lys Glu Lys Pro
 100 105 110
 Tyr Lys Ile Ile Thr Ile Thr His Val Val Pro Pro Arg Ala Glu
 115 120 125
 Arg Leu Lys Arg Val Pro Lys Ile Val Ala Gly Leu Pro Gln Thr Pro
 130 135 140
 Val Gly
 145

<210> 31463

<211> 275

<212> PRT

<213> A.fumigatus

<400> 31463

Ala Arg Ser Ser Arg Asn Gly Leu Cys Trp Val Ser Ser Val Ile Leu
 1 5 10 15
 Phe Ala Ser Leu Phe Cys Arg Asp Lys Val Leu Pro Ser Pro Phe Tyr
 20 25 30
 Arg Arg Ile Pro His Gly Phe Tyr Glu His Gln Met Arg Ala Tyr Phe
 35 40 45
 Ser Gln Phe Gly Asp Ile Thr Arg Leu Arg Leu Ser Arg Asn Arg Ile
 50 55 60
 Thr Gly Arg Ser Lys His Tyr Ala Phe Val Glu Phe Ala Ser Ser Thr
 65 70 75 80
 Val Ala Lys Ile Val Ala Glu Thr Met Asp Asn Tyr Leu Met Tyr Gly
 85 90 95
 His Ile Leu Lys Cys Lys Tyr Val Pro Ser Asp Gln Leu His Pro Glu
 100 105 110
 Val Trp Lys Gly Ala Asn Arg Arg Phe Lys Arg Thr Pro Trp Asn Arg
 115 120 125
 Ile Glu Lys Lys Arg Leu Glu Lys Gly Lys Thr Arg Glu Gln Trp Ser
 130 135 140
 Glu Arg Ile Glu Arg Glu Gln Lys Arg Arg Leu Ala Lys Ala Glu Lys
 145 150 155 160
 Leu Lys Ala Leu Gly Tyr Glu Tyr Glu Leu Pro Gln Leu Lys Ser Val
 165 170 175
 Asp Glu Val Pro Val Gln Glu Glu Thr Lys Ala Ile Glu Ala Ala Asp
 180 185 190
 Thr Thr Ala Asp Glu Pro Lys Lys Ala Ile Glu Ala Pro Ser Ala Gln
 195 200 205
 Glu Ser Lys Glu Glu Thr Thr Val Asp Glu Ile Pro Lys Lys Leu Lys
 210 215 220
 Lys Glu Lys Lys Ala Ser Gln Ser Thr Pro Lys Gln Gly Thr Pro Lys

[illegible]

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<210> 31464
<211> 209
<212> PRT
<213> A.fumigatus
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[illegible]

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<210> 31465
<211> 465
<212> PRT
<213> A.fumigatus
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Arg	Arg	Thr	Pro	Arg	Gly	Val	Met	Glu	Ser	Glu	Arg	Asp	Pro	Gly	Asn
1				5					10					15	
Pro	Gly	Asn	Pro	Ala	Val	Asn	Pro	Ser	Glu	Thr	Lys	Val	Leu	Leu	Ser
			20					25					30		
Gly	Val	Val	Pro	Pro	Pro	Leu	Leu	Thr	Gly	Thr	Gln	His	Arg	Asp	Arg
		35					40					45			
Tyr	Gly	Phe	Arg	Lys	Lys	Thr	Asn	Tyr	Ile	Thr	Leu	Glu	Gln	Tyr	Glu

12141

50	55	60
Ala Trp Asn Gly Pro Tyr Ser Glu Phe Val Ala Ser Arg Arg Val Lys		
65	70	75
Trp Ala Glu Leu Leu Lys Glu Asn Gly Leu Pro Thr Ser Glu Pro Thr		
	85	90
Val Phe Pro Ala Lys Ser Ser Lys Met Lys Arg Phe Val Arg Lys Gly		
	100	105
Ile Pro Ser Glu Phe Arg Gly Ala Ala Trp Phe Trp Tyr Ala Gly Gly		
	115	120
Phe Asp Leu Leu Lys Arg Asn Pro Gly Leu Tyr Asp Arg Leu Val Lys		
	130	135
Glu Ala Met Asp Ser Pro Asn Asn Asp Asp Lys Glu His Ile Glu Arg		
145	150	155
Asp Leu His Arg Thr Phe Pro Asp Asn Val His Phe Lys Pro Glu Phe		
	165	170
Val Asp Glu Ala Met Thr Ser Gly Thr Ser Ser Gly Ser Ser Asn Pro		
	180	185
Lys Tyr Ser Ser Val Thr Val Glu Thr Gln Met Ile Gln Ser Leu Arg		
	195	200
Arg Val Leu Tyr Ala Phe Ser Leu Tyr Asn Pro Arg Val Gly Tyr Thr		
	210	215
Gln Ser Leu Asn Phe Ile Thr Gly Met Leu Leu Leu Phe Leu Pro Glu		
225	230	235
Glu Lys Ala Phe Trp Met Leu His Ile Val Thr Ser Val Tyr Leu Pro		
	245	250
Gly Thr His Glu Ile Ser Leu Glu Gly Ala Asn Ile Asp Leu Trp Ile		
	260	265
Leu Met Val Leu Leu Lys Glu Thr Leu Pro His Ile Tyr Asn Lys Ile		
	275	280
Ala Gly Asn Pro Gly Arg Ser Lys Thr Pro Ala Leu Thr Val Asp Ser		
	290	295
Arg Leu Pro Asp Ile Thr Leu Gly Leu Thr Asn Trp Leu Met Ser Leu		
305	310	315
Phe Ile Gly Ser Leu Pro Leu Glu Thr Thr Leu Arg Val Trp Asp Val		
	325	330
Phe Phe Phe Glu Gly Ser Lys Thr Phe Phe Arg Val Ser Leu Ala Ile		
	340	345
Phe Lys Ala Cys Glu Lys Asp Ile Leu Ala Val Ser Asp Pro Met Glu		
	355	360
Val Phe Gln Val Val Gln Thr Val Pro Lys Lys Leu Leu Asp Ala Asn		
	370	375
Ala Leu Leu Glu Asp Cys Phe Val Arg Arg His Arg Val Gly Gln Gly		
385	390	395
Arg Ile Glu Glu Leu Arg Ala Ser Arg Arg Ala Ala Val Arg Gln Glu		
	405	410
Lys Leu Arg Arg Ser Leu Ala Ile Ser Lys Gly Gln Leu Gln Ala Ala		
	420	425
Thr Asp Glu Trp Pro Thr Thr Arg Ser Arg Thr Pro Ile Pro Gly Leu		
	435	440
Glu Arg Lys Val Ala Asp Ser Trp Arg Gln Met Arg Gln His Ala Phe		
450	455	460
Arg		
465		

<210> 31466

<211> 94

12142

<212> PRT
<213> A.fumigatus

<400> 31466

Gln	Ser	Thr	Ala	Arg	Ile	Ala	Gly	Pro	Arg	Gly	Arg	Arg	Thr	Ala	Met
1				5					10					15	
Leu	Pro	Met	Gln	Asn	Ile	Trp	Gln	Arg	Asn	Glu	Thr	Trp	Thr	Lys	Tyr
			20				25					30			
Leu	Tyr	Phe	Leu	Leu	Asn	Glu	Arg	Gln	Asn	Ile	Ala	Ile	Arg	Ile	Leu
		35				40					45				
Pro	Ile	Ile	Ser	Gln	Lys	Gln	Asn	Gly	Gln	Ile	Ser	Ile	Phe	Arg	Leu
	50				55					60					
Gln	Pro	Thr	Arg	Ile	Ser	Ala	Phe	Lys	Glu	Leu	Arg	Pro	Leu	Asp	Leu
65				70						75				80	
Ile	Met	Arg	Pro	Pro	Arg	Gly	Arg	Cys	Thr	Arg	Arg	Lys	Ala		
			85				90								

<210> 31467

<211> 60

<212> PRT

<213> A.fumigatus

<400> 31467

Arg	Pro	Arg	Leu	Glu	Gln	Cys	His	Cys	Met	Leu	Ala	Asp	Phe	Asp	Leu
1				5					10				15		
Arg	Phe	Gly	Cys	Glu	Phe	Pro	Lys	Asp	Gly	Asp	Glu	Gly	Val	Glu	Lys
		20					25					30			
Arg	Ser	Arg	Arg	Tyr	Asp	Ala	Asn	Phe	Phe	Ala	Glu	Tyr	Arg	Val	Lys
	35				40						45				
Ile	Val	Asp	Glu	Val	Leu	Ala	Lys	Leu	Met	Phe	Gly				
	50				55					60					

<210> 31468

<211> 427

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (396), (402)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31468

Ala	Cys	Thr	Leu	Leu	Lys	Arg	Thr	Ser	Leu	Met	Ala	Ser	Gln	Arg	Ile
1				5					10				15		
Ala	Ser	Ala	Leu	Ala	Glu	Ile	Glu	Ser	Ser	Thr	Asn	Pro	Gln	Thr	Lys
		20					25					30			
Leu	Gln	Gln	Tyr	Asn	Asn	Leu	Leu	Ser	Glu	Ile	Thr	Ser	Thr	Ser	Ser
	35				40						45				
Glu	His	Glu	Leu	Gly	Gln	Asp	Leu	Ile	Tyr	Tyr	Leu	Asp	Ser	Val	Leu
	50				55				60						
Ser	Glu	Glu	Ile	Ser	Ile	Val	Ala	Ala	Arg	Pro	Leu	Leu	Asp	Ser	Phe
65			70						75				80		
Ile	Ala	Val	Leu	Arg	Lys	Leu	Thr	Pro	Glu	Thr	Gln	Ile	Lys	Val	Gly
		85					90					95			
Gln	His	Ala	Val	Thr	Leu	Leu	Gln	Ser	Arg	Ser	Ser	Ser	Val	Glu	Glu

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<210> 31469
<211> 122
<212> PRT
<213> A.fumigatus
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Pro	Pro	Ala	Arg	Pro	Leu	Ala	Leu	Leu	Ser	Cys	Ala	Gly	Arg	Phe	Trp
1				5					10					15	
Leu	Lys	Thr	Thr	Ser	Arg	Pro	Arg	Asn	Ile	Leu	Gly	Val	Ile	Gly	Tyr
			20					25					30		
Trp	Phe	Leu	Thr	Lys	Asn	Ser	His	Leu	Pro	Leu	Ile	Val	His	Val	Leu
		35					40					45			
Asp	Tyr	Glu	Tyr	Gly	Lys	Thr	Ala	Leu	Leu	Ala	Ala	Lys	Asn	Val	Ala
	50					55					60				

12144

Gly Glu Asn Ala Met Thr Thr Thr Ser Glu Glu Ala Ser Asp Phe Ile
 65 70 75 80
 Gln Thr Ala Asn Ala Val Asn Lys Met Val Thr Val Tyr Gln Ser Lys
 85 90 95
 Pro Leu Ala Ser Trp Leu Arg Gly His Arg Gly Arg Thr Phe Arg Trp
 100 105 110
 Ser Leu Leu Cys Asp Leu Asp Lys His Phe
 115 120

<210> 31470
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 31470
 Ser Asp Asn Phe Ser Thr His His Thr Gly Phe Ile Leu Leu Pro Ser
 1 5 10 15
 Ala Leu Phe His Tyr Gly Ile Ala Gly Gly Gly Gln Gly Lys Pro Asp
 20 25 30
 Asn Arg Phe Ile Thr Gly Lys Arg Val Leu Ala Arg Ile Ala Cys Gly
 35 40 45
 Lys Phe Ala Val Ile Ala Ser Val Lys Gln Thr Cys Leu Thr
 50 55 60

<210> 31471
 <211> 245
 <212> PRT
 <213> A.fumigatus

<400> 31471
 Glu Asn Arg Arg Ala Thr Pro Asn Ile Arg His Asp Asp Arg Thr Thr
 1 5 10 15
 Ile Ser Arg Ser Gln Leu Ile Thr Thr Ser Ile Val Arg Pro Val Lys
 20 25 30
 Met Leu Phe Leu Ser His Val Val Phe Gly Leu Ser Leu Leu Thr Ala
 35 40 45
 Val Ala Tyr Gly Thr Leu Tyr Ile Phe Phe Thr Thr Val Thr Asp Val
 50 55 60
 Phe Ala Ser Arg Tyr Gly Ile Ile Thr Asn Val Gly Leu Ile Tyr Leu
 65 70 75 80
 Gly Cys Gly Cys Gly Gln Phe Ala Gly Leu Pro Ile Leu Gly Leu Val
 85 90 95
 Ser Asp Ala Ile Val Arg Arg Ala Ala Arg Gly Gly Glu Met Lys Pro
 100 105 110
 Glu Tyr Arg Leu Pro Pro Thr Ile Leu Gly Gly Ser Met Ile Pro Ile
 115 120 125
 Gly Leu Leu Ile Tyr Gly Trp Thr Ala Glu Tyr Arg Val Phe Trp Phe
 130 135 140
 Val Pro Val Leu Gly Thr Phe Leu Ile Gly Phe Gly Met Ile Thr Val
 145 150 155 160
 Phe Thr Pro Val Gly Thr Tyr Leu Val Asp Ala Phe Pro Met Tyr Ala
 165 170 175
 Ala Ser Ala Thr Ala Ala Asn Thr Val Phe Arg Ser Val Gly Gly Ala
 180 185 190
 Phe Leu Pro Leu Ala Gly Pro Arg Met Tyr Ser Ser Leu Gly Gln Gly
 195 200 205

12145

Trp Gly Asn Thr Leu Leu Ala Gly Ile Ser Leu Leu Met Met Gly Met
 210 215 220
 Ile Phe Met Ser Leu Lys Tyr Gly Glu Arg Leu Arg Thr His Pro Lys
 225 230 235 240
 Tyr Gln Ile Lys Leu
 245

<210> 31472
 <211> 378
 <212> PRT
 <213> A.fumigatus

<400> 31472
 Pro Ala Phe Gln Met Ala Arg Asn Pro Thr Met Asp Pro Asn Gly Thr
 1 5 10 15
 Leu Ser Arg Pro Leu Asp Glu Ser Leu Tyr Arg Glu Leu Pro Gln Leu
 20 25 30
 Gln Ser Leu Arg Ile Ala Pro Leu Arg Gln Pro Val Ser Ser Arg Leu
 35 40 45
 Leu Ser Ala Pro Ser Pro Leu Glu Pro Asn Ala Thr Gly Ile Ser Glu
 50 55 60
 Pro Asn Ala Ser Ser Lys Pro Asn Thr Pro Gly Ala Asn Gln Pro Ala
 65 70 75 80
 Asn Leu Pro Thr Leu Thr Glu Phe Leu Asn Ala Ala Gln Ser Lys Lys
 85 90 95
 Asn Gly Arg Ala Val Asp Thr Leu Leu Ser Leu Glu Pro Pro Pro Lys
 100 105 110
 Thr Ile Leu Pro Ala Phe Val Asn Leu Arg Ala Leu Glu Arg Phe Pro
 115 120 125
 Tyr Ser Ser Phe Asp Asp Asp Ser Leu Ala Arg Lys Arg Arg Arg Leu
 130 135 140
 Asp Val Gln Thr Asp Ser Phe Gly Glu His Leu Gln Leu Pro Ile Pro
 145 150 155 160
 Gln Ala Gln Lys Glu His Arg Pro Pro Pro Phe Gly Pro Phe Ala Ile
 165 170 175
 Leu Asn Gly Leu Asn Glu Pro Pro Pro Asn Ala Ala Leu Leu Pro Pro
 180 185 190
 Ile Glu Pro Gly Ser Ile Thr Gln Leu Leu Thr Lys Pro Ser Arg Asp
 195 200 205
 Val Ala Val Val Glu Ser Val Thr Leu Thr Ala Thr Thr Thr Ala Ala
 210 215 220
 Ala Gln Thr Ala Glu Arg Arg Glu Gly Arg Ile Lys Asp Ile Leu Asp
 225 230 235 240
 Ser Pro Ile Asp Asp Lys Thr Ala Ser Ala Asp Gln Asp Pro Val Glu
 245 250 255
 Ala Asn His Ser Val Asn Gly Ala Thr Val Asp Arg Pro Gly Gly Asp
 260 265 270
 Ser Asp Lys Ser Glu Ser Asp Lys Thr Pro Pro Arg Ala Asp Asp Val
 275 280 285
 Glu Pro Leu Ser Pro Lys Thr Arg Gly Arg Ser Arg Lys Asn Val Arg
 290 295 300
 Lys Trp Thr Glu Glu Glu Thr Thr Ala Leu Leu Arg Gly Val Val Lys
 305 310 315 320
 Cys Gly Ile Gly Asn Trp Thr Ala Ile Leu Ala Gln Pro Glu Leu Lys
 325 330 335
 Phe Asn Lys Arg Ser Ala Ser Asn Leu Lys Asp Arg Tyr Asp Leu Arg

12146

	340		345		350
Ala Val	Pro Glu Lys Pro Arg	Thr Asn Ile Gly Phe His Val Val Arg			
	355		360		365
Phe Arg Val Cys Cys Pro Trp	Ala Tyr Arg				
	370		375		

<210> 31473

<211> 275

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (261)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31473

Val Leu Ile Leu Thr Leu Phe Gly Cys Ser Ser Leu Thr Phe Tyr Ser																			
1		5					10						15						
Ala Ala Asp Pro Asn Glu Ala Thr Lys Gln Leu His Asp Thr Leu Ala																			
	20						25						30						
Asn Ala Leu Leu Arg Ala Glu Thr Glu Gly Ser Asp Gly Thr Ala Gly																			
	35						40						45						
Lys Ile Leu Leu Pro Gln Pro Arg Pro Thr Asn Ser Glu Ser His Thr																			
	50						55						60						
Ser Asn Gly Gly Ser Met Ala Asn Val Asn Glu Ser Ala Ser Ala Ser																			
	65						70						75						80
Ser Ser Ser Glu Ala Asp Thr Lys Ile Ser Lys Ser Pro Ser Lys Tyr																			
		85										90							95
Gly Pro Ser Phe Lys Ala Thr Pro Thr Leu Ser Asn Arg Ser Lys Ser																			
	100																		110
Thr Leu Ala Ser Leu Gly Ile Pro Glu Pro His Phe Ala Met Lys Ser																			
	115																		125
Arg Arg Arg Ser Arg Arg Pro Phe Thr Val Ala Glu Asp Glu Ala Leu																			
	130																		140
Leu Lys Gly Tyr Ala Val His Gly Phe Gln Trp Thr Leu Ile Gln Gln																			
	145																		155
Asp Lys Arg Leu Asn Leu Ser His Arg Lys Ala Thr Asp Leu Arg Asp																			
		165																	175
Arg Phe Arg Thr Lys Phe Pro His Ala Tyr Arg Asp Gly Gly Ser Val																			
	180																		190
Asn Gly Arg Ser Leu His Ile Gln Ser Gln Gly Val Asp Leu Ala Asp																			
	195																		205
Thr Glu Lys Ala Pro Pro Ile Lys Pro Asn Thr Gln Pro Thr Arg Gln																			
	210																		220
Ser Thr Ser Ser Ala Arg Ser Gly Arg Thr Glu Trp Ala Glu Ser Val																			
	225																		235
Ser Leu Gly Thr Ile Glu Ser Gly Leu Ser Pro Pro Ala Pro Pro Gln																			
		245																	255
Gly Leu Leu Glu Xaa Ala Thr Asn Ala Pro Gln Glu Ile Thr Ser Thr																			
	260																		270
Phe Pro Gly																			
	275																		

<210> 31474

<211> 117

<212> PRT

<213> A.fumigatus

<400> 31474

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Leu Thr Asp Thr Cys Val Lys Asn Gly Gly Ser His Phe Leu Ala Glu
1          5          10          15
Ile Ala Ser Arg Glu Phe Met Asp Asn Leu Val Ser Leu Leu Thr Thr
          20          25          30
Glu Gly Ala Pro Leu Asn Thr Asp Val Lys Glu Lys Met Leu Glu Leu
          35          40          45
Ile Gln Asp Trp Ala Met Ala Ala Gln Gly Arg Met Asp Leu Asn Tyr
          50          55          60
Leu Gly Glu Thr Tyr Arg Lys Leu Gln Asn Glu Gly Phe Arg Phe Pro
65          70          75          80
Pro Lys Asn Glu Ile Ser Gly Ser Met Leu Glu Ser Ser Ala Val Cys
          85          90          95
Leu Arg Pro Ser His Gly Ala Asp Leu Leu Leu Lys Leu Thr Phe Lys
          100          105          110
Ile Pro Ala Glu Thr
          115

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<210> 31475

<211> 237

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (206)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31475

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Pro Pro Glu Trp Ile Asp Ser Asp Val Cys Met Arg Cys Arg Thr Pro
1          5          10          15
Phe Ser Phe Met Asn Arg Lys His His Cys Arg Asn Cys Gly Asn Val
          20          25          30
Phe Asp Ala Gln Cys Ser Ser Lys Thr Leu Pro Leu Pro His Leu Gly
          35          40          45
Ile Leu Gln Pro Val Arg Val Asp Asp Gly Cys Tyr Val Lys Leu Thr
          50          55          60
Ser Lys Ser Ser Leu Pro Ser Asn Leu Ser Asp Arg Ser Ala Phe Lys
65          70          75          80
Asn His Ser Ile Thr Lys Ala Asn Ala Met Glu Pro Arg Gly Ala Arg
          85          90          95
Ala Glu Gly Gly Phe Asp Asp Asp Leu Arg Arg Ala Leu Gln Leu Ser
          100          105          110
Leu Glu Lys Ala Gln Ser Lys Gly Ser Ser Gly Tyr Val Pro Ser Thr
          115          120          125
Arg Ile Asn Asp Glu Pro Ala Lys Thr Thr Thr Gln Thr Asn His Glu
          130          135          140
Glu Glu Glu Asp Ala Asp Leu Lys Ala Ala Ile Glu Ala Ser Leu Arg
          145          150          155          160
Asp Met Glu Glu His Lys Lys Lys His Ala Ala Ala Leu Lys Ser Asn
          165          170          175
Ala Ala Ala Thr Asp Ser Ser Thr Arg Asp Ser Ala Ala Ala Thr Pro
          180          185          190

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12148

Leu Pro Lys Asn Pro Tyr Glu Leu Ser Pro Val Glu Val Xaa Asn Ile
 195 200 205
 His Leu Phe Ala Ala Leu Val Asp Arg Leu Gln His Gln Pro Pro Gly
 210 215 220
 Thr Ile Leu Arg Glu Pro Gln Ile Gln Glu Leu Tyr Glu
 225 230 235

<210> 31476

<211> 236

<212> PRT

<213> A.fumigatus

<400> 31476

Pro Ala Leu Leu Cys Ser Thr Pro Asp Ser Val Gln His Arg Pro Glu
 1 5 10 15
 Leu Thr Asp Gly Asn Gln Leu Pro Asn Leu Ile Ile Gly Asp Leu Asp
 20 25 30
 Ser Ile Arg Pro Ser Val Arg Ser His Tyr Glu Gly Leu Gly Val Ser
 35 40 45
 Val Ile Lys Asp Pro Asp Gln Tyr Ser Thr Asp Phe Thr Lys Cys Leu
 50 55 60
 Lys Tyr Leu Arg Ala His Ala Ala Glu Ile Ile Thr Lys Arg Val Ile
 65 70 75 80
 Ser Thr Gln Ser Arg Ser Ala Arg Leu Glu Ile Leu Ile Met Gly Gly
 85 90 95
 Leu Gly Gly Arg Val Asp Gln Ala Leu Ser Gln Ile His His Leu Tyr
 100 105 110
 Met Met Thr Arg Glu Val Ala Gly Glu Ser Ala Ala Gly Asp Leu Tyr
 115 120 125
 Leu Ile Ser Glu Glu Ser Ile Thr Phe Leu Leu Gln Ser Gly Arg His
 130 135 140
 Thr Ile Arg Thr Pro Arg Thr Asn Arg Pro Gly Val Cys Pro Glu Gln
 145 150 155 160
 Gly Glu Asp Glu Tyr Tyr Leu Leu Glu Glu Asn Val Gly Ile Ile Pro
 165 170 175
 Leu Ser Gly Pro Ala Arg Ile Thr Thr Arg Gly Phe Gln Trp Asp Val
 180 185 190
 Glu Asp Trp Leu Thr Glu Ile Gly Gly Gln Leu Ser Thr Ser Asn His
 195 200 205
 Ile Arg Ala Asp Glu Val Met Val Glu Thr Gly Val Pro Val Leu Phe
 210 215 220
 Thr Leu Glu Leu Ala Glu Arg Phe Lys Arg Met Arg
 225 230 235

<210> 31477

<211> 151

<212> PRT

<213> A.fumigatus

<400> 31477

Lys Gly Leu Leu Pro His Pro Phe Ser Ala Pro Leu Ser Cys Trp Ala
 1 5 10 15
 Gln Pro Ser Ile Thr Leu Arg Phe Ala Phe Lys Gly Thr His Pro Leu
 20 25 30
 His Val Gly Gly Trp Gly Leu Leu Gly Pro Arg Ser Pro Cys Gly Cys
 35 40 45

12149

Leu Arg Ala Thr Leu Leu Pro Trp Phe Phe Ala Tyr Phe Phe Asn Ile
 50 55 60
 Ser Cys Lys Ala Ser Gly Ser Ser Val Leu Lys Thr Arg Lys Ala Pro
 65 70 75 80
 Lys Thr Arg Pro Glu Phe Asp Pro Leu Ser Phe Asn Ile Ala Lys Ala
 85 90 95
 Val Ile Ala Tyr Val Val Tyr Ala Gln His Phe Asn Phe Met Gly Leu
 100 105 110
 Tyr Ser Asn Phe Ser Ile Glu Arg Val Asn Val Ser Val Pro Phe His
 115 120 125
 Trp Pro Gly Met Leu Thr Thr Ala Ala Ile Gly Thr Val Gly Thr Leu
 130 135 140
 Tyr Glu Ala Ile Leu Arg Lys
 145 150

<210> 31478

<211> 69

<212> PRT

<213> A.fumigatus

<400> 31478

Cys Leu Pro Cys Leu His Ala Ala Ala Thr Arg Lys Pro Leu Gly Ile
 1 5 10 15
 Ser Pro Ile Val Gly Thr Ala Ile Ala Ala Phe Gly Asn Gln Leu Ala
 20 25 30
 Thr Thr Thr Phe Ile Thr Tyr Ala Val Asp Asn Tyr Pro Gln Asp Ser
 35 40 45
 Gly Ser Val Gly Val Phe Ile Thr Phe Val Arg Gln Met Trp Gly Phe
 50 55 60
 Ile Val Pro Phe Trp
 65

<210> 31479

<211> 69

<212> PRT

<213> A.fumigatus

<400> 31479

Phe Ser Ala Cys Leu Leu Ser Ala Val Val Ile Met Ser Asn Gly Thr
 1 5 10 15
 Ala Gln Ser Ala Glu Glu Ala Leu Tyr Lys Pro Tyr Asp Gln Phe Ile
 20 25 30
 Leu Phe Gly Asp Ser Ile Thr Gln Met Ser Ser Asp Gln Ser Met Gly
 35 40 45
 Phe Gly Phe Gln Pro Ala Leu Gln Asp Gly Lys Ile Pro Leu Ser Ile
 50 55 60
 Gly His Ala Thr Thr
 65

<210> 31480

<211> 143

<212> PRT

<213> A.fumigatus

<400> 31480

Thr Ile Phe Phe Gly Ala Asn Asp Ala Ala Val Pro Gly His Tyr Gln

12150

1		5		10		15									
His	Val	Pro	Val	Glu	Thr	Tyr	Lys	Glu	Asn	Leu	Lys	Lys	Ile	Ile	Gln
		20						25					30		
His	Pro	Ala	Thr	Val	Ala	Gln	Asn	Pro	Arg	Ile	Leu	Ile	Leu	Thr	Pro
		35					40					45			
Pro	Pro	Val	Asn	Glu	Tyr	Gln	Leu	Glu	Glu	Phe	Asp	Ile	Ala	Lys	Asn
		50				55					60				
Thr	Pro	His	Pro	Ser	Arg	Thr	Val	Lys	Gln	Thr	Lys	Leu	Tyr	Ala	Glu
65					70					75				80	
Ala	Ala	Arg	Glu	Val	Ala	Ala	Ser	Leu	Gly	Val	Ala	Val	Val	Asp	Leu
			85						90					95	
Trp	Thr	Thr	Phe	Met	Thr	Ala	Ala	Gly	Trp	Lys	Glu	Gly	Glu	Pro	Leu
		100						105					110		
Ile	Gly	Ser	Arg	Asp	Ala	Pro	Asn	Asn	Glu	Lys	Leu	Gln	Ser	Phe	Phe
		115					120					125			
Thr	Asp	Gly	Ser	Ile	Pro	Leu	Phe	Val	His	Met	Gly	Ala	Ser	Cys	
		130				135					140				

<210> 31481

<211> 64

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (32), (42), (54), (56)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31481

Glu	Arg	Tyr	Pro	Met	Ala	Phe	Glu	Trp	Leu	Leu	Arg	Ala	Asn	Lys	Glu
1			5					10					15		
Asp	Ile	Thr	Pro	Thr	Ile	Val	Arg	Ile	Asp	Pro	Gly	Tyr	Val	Thr	Xaa
		20					25					30			
Lys	Gln	Ser	Arg	Val	Arg	Val	Leu	Ser	Xaa	Tyr	Asn	Lys	Pro	Val	Val
		35				40					45				
His	Pro	Lys	Phe	Arg	Xaa	Lys	Xaa	Ser	Asn	Leu	Phe	Ser	Lys	Asn	Gln
		50				55					60				

<210> 31482

<211> 294

<212> PRT

<213> A.fumigatus

<400> 31482

Cys	Gly	Gly	Ser	Asp	Asp	Pro	Arg	Leu	Tyr	Thr	Leu	Ile	Ala	Ile	Arg
1			5					10				15			
Arg	Arg	Gly	Ile	Pro	Pro	Gly	Ala	Ile	Leu	Ser	Phe	Val	Asn	Asn	Leu
		20				25						30			
Gly	Val	Thr	Lys	Ala	Thr	Ala	Ile	Val	Gln	Thr	Ala	Lys	Leu	Asp	Gln
		35				40					45				
Ile	Val	Arg	Gln	Tyr	Leu	Glu	Thr	Thr	Val	Pro	Arg	Leu	Met	Val	Val
		50				55				60					
Leu	Glu	Pro	Leu	Lys	Val	Val	Ile	Ser	Asn	Leu	Pro	Asp	Gly	Tyr	Glu
65				70					75				80		
Glu	Met	Val	Glu	Val	Pro	Phe	Ser	Lys	Asp	Pro	Ala	Phe	Gly	Ser	His
			85					90					95		

12151

Leu Val Pro Phe Thr Lys Thr Val Tyr Ile Glu Arg Ser Asp Phe Arg
 100 105 110
 Glu Glu Asp Ser Pro Asp Tyr Phe Arg Leu Ala Pro Gly Lys Thr Val
 115 120 125
 Gly Leu Leu Lys Val Pro Phe Pro Ile Thr Ala Thr Ala Phe Asp Lys
 130 135 140
 Asp Pro Gln Thr Gly Ala Val Thr Cys Val Tyr Ala His Tyr Glu Lys
 145 150 155 160
 Pro Glu Glu Gly Ser Asp Gly Pro Ala Lys Lys Ala Lys Thr Tyr Ile
 165 170 175
 His Trp Val Gly Glu Ser Ala Ala His Lys Ser Pro Val Lys Ala Glu
 180 185 190
 Val Arg Ala Phe Asn Ser Leu Phe Lys Ser Asn Asp Pro Ser Ala His
 195 200 205
 Pro Asp Gly Phe Leu Ala Asp Ile Asn Pro Asp Ser Glu Glu Ile Tyr
 210 215 220
 Glu Gly Ala Tyr Ile Asp Ile Gly Phe His Asp Val Ser Lys Ser Ala
 225 230 235 240
 Pro Trp Pro Lys Thr Ser Gly Glu Thr Gly Gly Glu Val Asn Pro Tyr
 245 250 255
 Ser Ile Arg Phe Gln Gly Met Arg Thr Ala Tyr Phe Cys Val Asp Thr
 260 265 270
 Asp Ser Thr Ala Asp Asn Val Val Leu Asn Arg Ile Val Thr Leu Lys
 275 280 285
 Asp Thr Gln Gly Lys Thr
 290

<210> 31483

<211> 150

<212> PRT

<213> A.fumigatus

<400> 31483

Leu Ile Ser Pro Leu Pro Asn Gln Ser Thr Thr Leu Ser Pro Asn Gln
 1 5 10 15
 Val Gln Ala Lys Ala Lys Lys Lys Lys Asn Glu Pro Ser Gln Thr Pro
 20 25 30
 Asn Ser Pro Pro Tyr Pro Arg Arg Leu Arg His Ser Leu Pro Pro Pro
 35 40 45
 Pro Pro Arg Pro Arg Pro Ile Arg Arg Gly Arg Ala Arg Leu Arg Pro
 50 55 60
 Pro Pro Leu Asn Gln His His Pro Arg Pro Pro Gln Asn Ser Leu Pro
 65 70 75 80
 Ile Asn Leu Gln Glu Thr Val Ala Asp Thr Pro Lys Leu Arg Pro Gly
 85 90 95
 Gly Gly Pro Ala Arg Pro Val Trp Arg Pro Thr Ala Val Val Gly Gly
 100 105 110
 Gly Tyr Pro Gly Glu Phe Cys Ala Gly Val Asp Ile Trp Gly Thr Gly
 115 120 125
 Arg Arg Arg Arg Gly Arg Arg Arg Ala Arg Cys Ala Gly Val Ala Ser
 130 135 140
 Ala Gly Ser Leu Cys Gly
 145 150

<210> 31484

<211> 290

12152

<212> PRT

<213> A.fumigatus

<400> 31484

```

Ile Arg Ile Ser Pro Ser Ala Lys Glu Val Ser Gln His Thr Trp Cys
1           5           10           15
Leu Thr Glu Ser Val Trp Pro Ser Val Ile Tyr Ile Phe Val Asn Gly
          20          25          30
Val Glu Leu Tyr Val Arg Arg Lys Phe His Asn Gly Lys Asp Ile Pro
          35          40          45
Leu Asp Ile Ser Gly His Leu Lys Glu Gly Leu Asn Thr Ile Ser Leu
          50          55          60
His Phe Leu Arg Ser Ala Ala Glu Ser Arg Asp Val Val Tyr Ala Leu
65          70          75          80
Ala Val Glu Val Met Asp Ile Leu Ser Phe Ala Gln Val Lys Lys Leu
          85          90          95
Ala Gln Thr Leu Pro Ala Pro Gln Ser Arg Glu Arg Ile Cys Arg Arg
          100          105          110
Leu Ser Ser Ser Ala Ala Asp Asp Glu Leu Ser Ile Ile Ser Asp Tyr
          115          120          125
Leu Ala Val Asn Leu Val Asp Pro Phe Met Ala Arg Ile Phe Asn Ile
          130          135          140
Pro Ala Arg Gly Ile Thr Cys Glu His Val Glu Cys Phe Asp Leu Glu
145          150          155          160
Thr Tyr Ile Leu Thr Arg Ala Ser Lys Ala Gly Lys Ala Val Leu Lys
          165          170          175
Glu Asn Trp Arg Cys Pro Ile Cys Gly Ala Asp Ala Arg Pro Gln His
          180          185          190
Leu Ile Ile Asp Gly Phe Leu Ser Glu Val Arg Ala Glu Leu Val Arg
          195          200          205
Thr Gly Cys Leu Glu Gly Ala Arg Ala Ile Arg Ile Lys Ala Asp Gly
          210          215          220
Ser Trp Glu Leu Lys Ser Asp Gly Asp Val Thr Ser Ser Glu Arg Glu
225          230          235          240
Leu Ala Arg Val Gln Glu Ser Ser Ser Leu Lys Arg Lys Arg Glu Gly
          245          250          255
Val Val Ser Pro Leu Ala Thr Gln Arg Pro Lys Thr Glu Gly Ala Gly
          260          265          270
Arg Glu Ser Leu Ala Ser Arg Glu Ser Ser Ala Ser Leu Val Ile Glu
          275          280          285
Leu Asp
          290

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<210> 31485

<211> 1073

<212> PRT

<213> A.fumigatus

<400> 31485

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Arg Arg Asp Leu Ala Cys Arg Leu Leu Cys Val Leu Met Leu Asp Arg
1           5           10           15
Phe Gly Asp Tyr Ile Ser Asp Asn Val Val Ala Pro Ile Arg Glu Thr
          20          25          30
Val Gly Gln Thr Leu Gly Ala Leu Leu Ser Gln Leu Pro Ser Arg Ser
          35          40          45
Val Ile Ser Val Tyr Lys Cys Leu Tyr Arg Ile Ile Met Gln Thr Asp

```

50	55	60
Leu Gly Leu Glu Arg Pro Ile Trp Glu Val Cys His Gly Gly Met Ile		
65	70	75
Gly Leu Arg Tyr Leu Val Ala Val Arg Lys Asp Leu Leu Ile Lys Asp		80
	85	90
Ser Lys Leu Met Asp Gly Val Leu Glu Ala Val Met Lys Gly Leu Gly		95
	100	105
Asp Tyr Asp Asp Asp Val Arg Ala Val Ser Ala Ala Thr Leu Val Pro		110
	115	120
Ile Ala Glu Glu Phe Val Lys Thr Arg Gln Ser Thr Leu Gly Thr Leu		125
	130	135
Met Thr Ile Val Trp Asp Cys Leu Ser Asn Leu Gln Asp Asp Leu Ser		140
	145	150
Ala Ser Thr Gly Ser Val Met Asp Leu Leu Ala Lys Leu Cys Thr Phe		155
	165	170
Gln Glu Val Leu Asp Ala Met Lys Ala Asn Ala Ala Val Asn Pro Glu		175
	180	185
Ser Ser Phe Gly Lys Leu Val Pro Arg Leu Tyr Pro Phe Leu Arg His		190
	195	200
Thr Ile Thr Ser Val Arg Ser Ala Val Leu Arg Ala Leu Met Thr Phe		205
	210	215
Leu Gln Leu Glu Gly Glu Gly Thr Asp Glu Trp Val Asp Gly Lys Thr		220
	225	230
Val Arg Leu Ile Phe Gln Asn Leu Leu Val Glu Arg Asn Glu Gly Val		235
	245	250
Leu Lys Gln Ser Leu Gln Val Trp Ser Glu Leu Leu Asn Ser Leu Glu		255
	260	265
Thr Arg Gly Ser Phe Lys Ser Glu Ser Asp Leu Leu Ser His Ile Lys		270
	275	280
Pro Leu Ile Thr Leu Ser Met Gly Pro Phe Gly Val Pro Arg Tyr Pro		285
	290	295
Val Pro Met Asp Ala Ser Leu Phe Ile Lys Pro Ser Gly Leu Pro Phe		300
	305	310
Pro Ser Ser Ala Ala Pro Ala Arg Ser Ser Pro Ala Ser Asn Thr		315
	325	330
Pro Glu Gly Thr Lys Gly Arg Arg Arg Lys Ser Glu Lys Lys Glu Ala		335
	340	345
Pro Pro Pro Ser Ala His Asn Val Asp Gly His Met Leu Gln Gly Asp		350
	355	360
Ile Asp Leu Val Gly Ala Asp Thr Met Leu Arg Ser Lys Ile Tyr Ala		365
	370	375
Ala Arg Ala Leu Gly Gln Leu Leu Phe Val Trp Asp Gln Asn Gln Leu		380
	385	390
Pro Ser Leu Trp Gln Ser Ile Leu Glu Gly Leu Asn His Ser Ala Ser		395
	405	410
Thr Ser Gln Leu Ala Ser Ala Met Ile Val Glu Glu Tyr Ala Lys Leu		415
	420	425
Ser Gly Pro Ser Gly Arg Tyr Ala Ser Thr Leu Cys Glu Asn Leu Arg		430
	435	440
Pro Ile Ile Glu Gly Glu Arg Pro Pro Trp Tyr Ser Asp Ile Ala Cys		445
	450	455
Tyr Leu His Val Ala Arg Ala Gln Cys His Ser Leu Leu Asn Thr Phe		460
	465	470
Arg Asp His Ala His Val Pro Gly Ser Arg Leu Pro Val Leu Ala Val		475
	485	490
Ile Val Gln Gly Asp Pro Glu Ala Gly Pro Asn Ala Phe Ser Leu Ser		495

500					505					510					
Asp	Ala	Glu	Lys	Val	Ile	Gly	Pro	Asp	Phe	Glu	Arg	Leu	Lys	Lys	Gly
515					520					525					
Leu	Thr	Pro	Ala	Gln	Arg	Ile	Thr	Ala	Leu	Gln	Val	Leu	Asn	Asp	Thr
530					535					540					
Arg	Ala	Thr	Ala	Glu	Ser	Ala	Val	Asn	Glu	Ala	Arg	Asn	Val	Arg	Glu
545					550					555					
Gln	Arg	Asp	Leu	Arg	Val	Arg	Ala	Ala	Ala	Ala	Gly	Ala	Leu	Val	Ala
565					570					575					
Leu	Ser	Asp	Ile	Pro	Lys	Lys	Pro	Ser	His	Ile	Ile	Lys	Gly	Met	Met
580					585					590					
Asp	Ser	Ile	Lys	Lys	Glu	Glu	Asn	Ala	Glu	Leu	Gln	Gln	Arg	Ser	Ala
595					600					605					
Thr	Ala	Ile	Thr	Ser	Leu	Val	Glu	Tyr	Tyr	Thr	Thr	Ser	Ala	Lys	Arg
610					615					620					
Gly	Pro	Val	Asp	Lys	Val	Ile	Gly	Asn	Leu	Val	Lys	Tyr	Cys	Cys	Val
625					630					635					
Asp	Thr	Ser	Glu	Thr	Pro	Glu	Phe	His	His	Asn	Ala	Met	Leu	Glu	Lys
645					650					655					
Ser	Ile	Leu	Ser	Leu	Arg	Lys	Glu	Glu	Asp	Arg	Arg	Asp	His	Pro	Asp
660					665					670					
Ala	Ala	Lys	Phe	Glu	Arg	Glu	Ala	Lys	Glu	Ala	Arg	Ile	Met	Arg	Arg
675					680					685					
Gly	Ala	Lys	Glu	Ala	Leu	Glu	Gln	Leu	Ala	Val	Lys	Phe	Gly	Ser	Glu
690					695					700					
Leu	Met	Ala	Lys	Val	Pro	Asn	Leu	Ala	Ser	Leu	Ile	Glu	Arg	Pro	Leu
705					710					715					
Lys	Glu	Ala	Leu	Ala	Ala	Asp	Glu	Leu	Pro	Ala	Asn	Ile	Arg	Asp	Pro
725					730					735					
Glu	Asn	Glu	Leu	Gly	Gln	Glu	Val	Val	Asp	Gly	Leu	Ser	Thr	Leu	Arg
740					745					750					
Ala	Ile	Leu	Pro	Lys	Phe	His	Ser	Gly	Leu	Tyr	Pro	Trp	Val	Val	Asp
755					760					765					
Leu	Leu	Pro	Leu	Val	Val	Lys	Ala	Leu	Gln	Cys	Lys	Leu	Ser	Val	Ile
770					775					780					
Arg	Tyr	Ala	Ala	Ala	Lys	Cys	Phe	Ala	Thr	Ile	Cys	Ser	Val	Ile	Thr
785					790					795					
Val	Glu	Gly	Met	Thr	Met	Leu	Val	Glu	Lys	Val	Leu	Pro	Met	Ile	Asn
805					810					815					
Asp	Ala	Leu	Asp	Val	His	His	Arg	Gln	Gly	Ala	Val	Glu	Cys	Ile	Tyr
820					825					830					
His	Leu	Ile	His	Val	Met	Glu	Asp	Gly	Ile	Leu	Pro	Tyr	Val	Ile	Phe
835					840					845					
Leu	Val	Val	Pro	Val	Leu	Gly	Arg	Met	Ser	Asp	Ser	Asp	Asn	Glu	Val
850					855					860					
Arg	Leu	Leu	Ala	Thr	Thr	Ser	Phe	Ala	Thr	Leu	Val	Lys	Leu	Val	Pro
865					870					875					
Leu	Glu	Ala	Gly	Ile	Pro	Asp	Pro	Pro	Gly	Leu	Ser	Glu	Glu	Leu	Leu
885					890					895					
Lys	Gly	Arg	Asp	Arg	Glu	Arg	Gln	Phe	Met	Ala	Gln	Met	Leu	Asp	Val
900					905					910					
Arg	Lys	Val	Glu	Glu	Phe	Lys	Ile	Pro	Val	Ala	Ile	Lys	Ala	Glu	Leu
915					920					925					
Arg	Pro	Tyr	Gln	Gln	Glu	Gly	Val	Asn	Trp	Leu	Ala	Phe	Leu	Asn	Arg
930					935					940					
Tyr	Asn	Leu	His	Gly	Ile	Leu	Cys	Asp	Asp	Met	Gly	Leu	Gly	Lys	Thr

[illegible]

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<210> 31486
<211> 251
<212> PRT
<213> A.fumigatus
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Arg	Asp	Leu	Tyr	Ser	Arg	Pro	Thr	Val	Arg	Gln	Thr	His	His	Gln	Arg
1				5					10					15	
Pro	Gly	Leu	Gln	Ser	Ser	Pro	Cys	Asn	Ser	Pro	Arg	His	Pro	Thr	Arg
			20					25					30		
Ser	Leu	Pro	Gly	Leu	Leu	His	Ser	Phe	Arg	His	Leu	Pro	Leu	Leu	Ala
		35					40					45			
Ile	Gln	Glu	Tyr	Pro	His	Asn	His	His	Asp	His	Leu	Pro	Leu	Pro	His
	50					55					60				
Pro	Asp	Arg	Arg	Leu	Ser	Thr	Leu	Ala	Ala	Ala	Pro	Asn	Glu	Ser	Leu
65					70					75					80
Arg	Ser	Pro	Leu	Arg	Leu	Leu	His	Arg	Met	Ser	Thr	Thr	Pro	Phe	Phe
				85					90					95	
Gly	Cys	Ile	Leu	Thr	Lys	Gln	Ile	Ala	Ser	Tyr	Val	Thr	Ser	Leu	Val
			100					105					110		
Leu	Cys	Leu	Gln	Met	Pro	Ser	Ser	Asn	Thr	Gly	Gly	Tyr	Thr	Lys	Arg
		115					120					125			
Val	Thr	Ala	Thr	Ala	Leu	Val	Phe	Ile	Ala	Tyr	Cys	Leu	Gly	Asn	Ile
						135					140				
Val	Gly	Pro	His	Ala	Phe	Leu	Ala	Arg	Glu	Ala	Pro	Val	Tyr	Glu	Thr
145					150					155					160
Gly	Cys	Lys	Leu	Ile	Leu	Ala	Cys	Ala	Leu	Gly	Gln	Met	Ala	Cys	Thr
			165						170					175	
Val	Ala	Leu	Arg	Val	Leu	Leu	Ser	Arg	Arg	Asn	Lys	Arg	Arg	Asp	Ala
			180					185					190		
Glu	Gly	Val	Ala	Pro	Ala	Glu	Gly	Asp	Ala	Asp	Glu	Gln	Ile	Leu	Ala
		195					200					205			
Asp	Leu	Thr	Asp	Phe	Glu	Val	Cys	Val	Leu	Cys	Cys	Ala	Val	Leu	His
	210					215					220				
Ala	Ser	Gly	Gly	Ala	Val	Ala	Asp	Gly	Gly	Arg	Ile	Leu	Ala	Phe	Asp
225					230					235					240
Met	Phe	Cys	Arg	Leu	Gly	Gln	Asp	Gly	Leu	Trp					
				245					250						

<210> 31487
 <211> 139
 <212> PRT
 <213> A.fumigatus

<400> 31487

```

Ser Gly Thr Lys Ser Glu Arg Leu Ser Leu Ile Pro Lys Ser Gly Ser
1          5          10          15
Ser Ser Phe Leu Ser Cys Ser Thr Arg Arg Leu Thr Glu Val Trp Leu
          20          25          30
Met Tyr Val Ser Leu Leu His Ser Glu Ile Ser Thr His Ala Leu Gln
          35          40          45
Phe Gly Lys Leu Ile Ile Lys Gly Leu Val Ser Ser Pro Leu Leu Ala
          50          55          60
Thr Ala Leu Gly Ile Pro Gln Gly Ala Phe Gln Val Phe Phe Ile Leu
          65          70          75          80
Ser Gly Thr Tyr Leu Ser Ser Arg Phe Lys Asn Ile Arg Thr Ile Ile
          85          90          95
Met Ile Ile Tyr Leu Phe Pro Thr Leu Ile Gly Val Cys Leu Leu Trp
          100          105          110
Gln Leu Pro Arg Thr Asn Arg Tyr Gly Val Leu Phe Gly Tyr Tyr Ile
          115          120          125
Val Cys Gln Gln Pro Leu Phe Leu Gly Ala Tyr
          130          135

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<210> 31488
 <211> 92
 <212> PRT
 <213> A.fumigatus

<400> 31488

```

Arg Arg Gln Asp Arg Arg His Pro Arg Asn Arg Pro Gly Lys Glu Asp
1          5          10          15
Asp Ile Glu Asn Gly His Ile Ser Ser Leu Asp Glu Ala Glu Leu Phe
          20          25          30
Leu Arg Glu His Gly Ile Ser His Ser Gln Leu Gln Glu Met Leu Asp
          35          40          45
Asp Pro Ala Lys Ser Arg Lys Ile Arg Arg Arg Val Asp Leu Ile Leu
          50          55          60
Leu Pro Leu Leu Cys Gly Thr Tyr Val Leu Gln Tyr Ile Asp Lys Gln
          65          70          75          80
Val Lys Val Ser Cys Thr Ser Glu Gln Thr Thr Tyr
          85          90

```

<210> 31489
 <211> 114
 <212> PRT
 <213> A.fumigatus

<400> 31489

```

Tyr Ser Trp Ile Phe His Asp Ile Ser Asp Asn Leu Lys Leu Gly Gly
1          5          10          15
Leu Ile Ser Phe Ala Ile Gly Gln Leu Asn Gly Phe Pro Val Trp Arg
          20          25          30
Ala Val Phe Leu Ile Cys Gly Gly Val Thr Val Leu Trp Gly Gly Ile

```

12157

		35					40					45							
Leu	Leu	Leu	Tyr	Leu	Pro	Asn	Ser	Ile	Leu	Ser	Ala	Lys	Arg	Phe	Thr				
	50					55					60								
Ile	Glu	Glu	Lys	Ile	Leu	Leu	Ile	Gly	Arg	Gly	Lys	Gln	Asn	Gln	Thr				
65					70					75				80					
Val	Cys	His	Phe	Pro	Gln	Cys	Gln	Cys	Thr	Glu	Cys	Ser	Leu	Ile	Leu				
				85					90					95					
Pro	Gly	Tyr	Ser	Gln	Pro	Leu	Asn	Lys	Val	Val	Pro	Asn	Pro	Arg	Gly				
			100					105						110					
Phe	Pro																		

<210> 31490

<211> 61

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (21)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31490

Gly	Asp	Cys	Tyr	Ser	Val	Pro	Asp	Tyr	Asn	Thr	Lys	His	Ser	Ala	Arg				
1				5					10					15					
Ile	Ser	Pro	Gln	Xaa	Glu	Ala	Phe	Leu	Pro	Leu	Asn	Ala	Thr	Phe	Ala				
			20					25					30						
Ser	Thr	Ser	Thr	Ala	Leu	Met	Arg	Thr	Ser	Glu	Leu	Tyr	Ser	Ser	Pro				
		35					40					45							
Asp	Phe	Thr	Arg	Gly	Leu	Ser	Tyr	Leu	Ile	Ala	Tyr	Arg							
	50					55					60								

<210> 31491

<211> 213

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (2), (11)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31491

Gln	Xaa	Gln	Gln	Ser	Thr	Pro	Gly	Leu	Leu	Xaa	Ala	Ser	Gly	Leu	Leu				
1				5				10						15					
His	Gly	Pro	His	Asn	Leu	His	Pro	Gln	Gln	His	His	Gly	Ser	Gly	Pro				
			20					25					30						
Gly	His	Phe	Glu	Asp	His	His	Arg	Met	Gln	Met	Ser	Ala	Ser	Thr	Ser				
		35					40					45							
Gln	Ile	Phe	Pro	Ser	Pro	Arg	Leu	Gln	His	Gly	Tyr	Pro	Ser	Pro	Met				
	50					55				60									
Ala	Pro	His	Ala	Gln	Leu	Ala	Phe	Gly	Gln	Pro	Val	Pro	Gln	Phe	Tyr				
65				70					75					80					
Val	Asn	Gln	Gly	Gly	Pro	Gln	Pro	Ala	His	Leu	Arg	Pro	Phe	Pro	Gly				
			85					90						95					
Ala	Pro	Gln	Phe	Val	Asn	Pro	Gln	Thr	Gly	Met	Gly	Ala	Pro	Met	Met				

12158

```

      100      105      110
Val Gln Gln Pro Ser Ser Gly Pro Tyr Met Gly Gly Pro Gln Gly Met
      115      120      125
Thr Pro Tyr Ala Pro Gln Met Gln Met Tyr Ser Pro Asn Pro Gly His
      130      135      140
Ala Tyr Pro Gln His Ala Pro Pro Pro Gln Pro His Ser Gly Tyr Pro
      145      150      155      160
Ser Pro Ser Arg Gly Ala Pro Met Met Met His Gln Asn Ser Gln Pro
      165      170      175
Gly Gln Leu Pro Gln Pro Val Met Phe Met Ser Pro Gly Gln His Gly
      180      185      190
Gln Pro Val Tyr Ala Ala Gln Gln Pro Gly His Ser Met Phe Phe Thr
      195      200      205
Val Val Gly Pro Ser
      210

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<210> 31492

<211> 444

<212> PRT

<213> A.fumigatus

<400> 31492

```

Thr Asp Phe Gly Val Ala Tyr Ser Arg Leu Trp Gly Asn Pro Ser His
1      5      10      15
Leu Asp Tyr Leu Thr Ala Ser Leu Arg Glu Arg Tyr Gly Glu Asp Arg
      20      25      30
Leu Tyr Ile Leu Ala Ala Lys Gly Asn Ser Gly Asn Phe Thr Tyr Asp
      35      40      45
Gly Ile Glu Leu Gly Gly Glu Arg Leu Ala His Glu Ile Glu Asp Thr
      50      55      60
Leu Gly Ala Leu Asp Ala Glu Gly Thr His Ile Lys Lys Leu Ser Val
      65      70      75      80
Ile Gly Tyr Ser Leu Gly Gly Leu Val Ala Arg Tyr Ala Leu Gly Leu
      85      90      95
Leu His Ala Arg Gly Trp Phe Asp Lys Leu Glu Pro Val Asn Phe Thr
      100      105      110
Thr Phe Val Ser Pro His Val Gly Val Arg Met Pro Leu Lys Gly Ile
      115      120      125
Arg Asp His Ile Phe Asn Gly Leu Gly Ala Arg Thr Leu Ser Met Ser
      130      135      140
Gly Arg Gln Met Phe Met Val Asp Glu Phe Arg Asp Thr Gly Arg Pro
      145      150      155      160
Leu Leu Ser Ile Leu Ala Asp Pro Asp Ser Ile Phe Met Lys Ala Leu
      165      170      175
Ala Lys Phe Arg Asn Arg Ser Val Tyr Ala Asn Ile Val Asn Asp Arg
      180      185      190
Ser Thr Ala Phe Phe Thr Thr Ala Leu Ser Thr Thr Asn Pro Phe Gln
      195      200      205
Asp Leu Glu Asn Val Asn Val Asn Tyr Val Lys Gly Tyr Glu Pro Val
      210      215      220
Val Ile Asp Pro Asp Asp Tyr Phe Leu Pro Pro Lys Lys Gln Glu Pro
      225      230      235      240
Pro Ser Phe Phe Ser Arg Leu Trp Gln Asn Ile Lys Gly Thr Leu Thr
      245      250      255
Gln Val Ala Ile Ser Leu Leu Val Val Val Phe Val Pro Ile Gly Val
      260      265      270

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Val Leu Tyr Leu Val Asn Ala Ala Val Gln Thr Tyr Arg Ser His Arg
 275 280 285
 Arg Ile Arg Leu His Glu Asp Gly Lys Ala Gly Val Leu Ile Ser Asn
 290 295 300
 Tyr Arg Val Pro Val Ile Val Lys Asp Met Gln Ser Ala Val Glu Asp
 305 310 315 320
 Ala Phe Glu Ser Ala Thr Ala Met Gln Asp Pro Ala Tyr Leu Ser Asn
 325 330 335
 Ala Arg Thr Arg Ala Gly Lys Lys Glu Ser Leu Pro Gln Thr Pro Ala
 340 345 350
 Val Ser Lys Thr Gly Ala Leu Glu Asn Gln Thr Cys Thr Leu Asp Glu
 355 360 365
 Thr Ser Ser Ala Leu Pro Asp Gln Lys Arg Asp Ala Thr Leu Ala Leu
 370 375 380
 Thr Pro Ala Gln Phe Ser Ile Ile Glu Ser Leu Asn Ser Val Gly Phe
 385 390 395 400
 Arg Lys Tyr Pro Val Trp Ile His Asn His Ser His Ser His Ala Ala
 405 410 415
 Ile Ile Val Arg Met Ala Lys Lys Gly Phe Glu Glu Gly Lys Val Val
 420 425 430
 Val Lys His Trp Leu Asp Asn Glu Phe Asp Ile Glu
 435 440

<210> 31493

<211> 60

<212> PRT

<213> A.fumigatus

<400> 31493

Lys Ser Leu Ala Ala Arg Ser Arg Phe Ser Tyr Leu Gly Leu Trp Val
 1 5 10 15
 Gln Phe Val Glu Asp Phe Ser Leu Lys Ser Lys Phe Thr Asp Val Tyr
 20 25 30
 Trp Ala Ala Ser His Thr Lys Leu His Met Pro His Ser Leu Gly Leu
 35 40 45
 Met Asn Glu Leu Leu Glu Cys Ser Tyr Cys Ser Ser
 50 55 60

<210> 31494

<211> 290

<212> PRT

<213> A.fumigatus

<400> 31494

Arg His Gln Asp Thr Gln Val Asn Trp Ala Phe Leu Thr Pro Ser Thr
 1 5 10 15
 Ala Arg Ser Leu Asn Pro Ala Asp Val Pro Leu Leu Thr Thr Leu Val
 20 25 30
 Leu Gly Gly Glu Ala Val Thr His Glu Ser Val Glu Val Trp Ala Lys
 35 40 45
 Gly Arg Ser Leu Ile Asn Gly Tyr Gly Pro Ala Glu Ala Thr Ile Cys
 50 55 60
 Gly Val Gly Asn Ile Pro Glu Ala Gly Trp Lys Ser Gly Val Val Gly
 65 70 75 80
 Arg Ile Ile Gly Gly Leu Gly Trp Val Thr Val Pro Ser Asp Pro Asn
 85 90 95

12160

Arg Leu Ala Ala Val Gly Ala Val Gly Glu Leu Leu Leu Glu Gly Pro
 100 105 110
 Phe Leu Ala Arg Gly Tyr Leu Asn Leu Pro Glu Val Thr Lys Ala Ala
 115 120 125
 Phe Ile Asp Pro Pro Ser Trp Arg Thr Arg Ile Pro Ala Pro Ser Pro
 130 135 140
 Tyr Ser Phe Leu Tyr Arg Thr Gly Asp Leu Val Arg Tyr Gln Pro Asp
 145 150 155 160
 Gly Ser Ile Gln Tyr Val Gly Arg Lys Asp Ser Arg Val Lys Leu Arg
 165 170 175
 Gly Gln Leu Val Asp Leu Gly Ala Val Glu Ala Ser Val Met Arg Val
 180 185 190
 Tyr Pro Ala Ala Gly Gln Val Val Ala Asp Val Leu Val Ser Glu Asn
 195 200 205
 Thr Ala Arg Leu Thr Ala Met Val Lys Leu Gly Pro Ser Val Thr Glu
 210 215 220
 Asn His Asp Gly Pro Met Phe Ala Ala Pro Asp Leu Val Phe Asn Glu
 225 230 235 240
 Ala Ala Ala Ser Ile Gln Ala Arg Leu Arg Ala Ile Val Pro Ala Tyr
 245 250 255
 Met Val Pro Ser Met Phe Ile Ser Leu Arg Asp Ile Pro Gly Thr Leu
 260 265 270
 Thr Gly Lys Asn Gly Ser Ala Ser Ala Ser Gln Thr Lys Tyr Phe Ile
 275 280 285
 Ile Thr
 290

<210> 31495

<211> 541

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (19)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31495

Ala Ser Arg Thr Lys Lys Pro Met Phe Asp Asp Asn Glu Arg Gly Phe
 1 5 10 15
 Gln Glu Xaa Gly Ala Glu Leu Phe Lys Leu Pro Cys Glu Ala Ile Gly
 20 25 30
 Arg Glu Asp Ser Phe Tyr Ser Leu Gly Gly Glu Ser Leu Ala Thr Met
 35 40 45
 Lys Met Val Ala Leu Ala Arg Arg Val Gly Phe Met Phe Ala Val Thr
 50 55 60
 Asp Val Met Asn Asn Thr Ser Leu Ser Thr Leu Ala Arg Ser Arg His
 65 70 75 80
 Leu Ile Thr Glu Gln Ala Ile Leu Thr Ser Ser Pro Ser Leu Ser Leu
 85 90 95
 Pro Thr Ile Glu Gly Glu Ser Leu Gln Glu Ile Leu Arg Pro Leu Leu
 100 105 110
 Asn Ala Gly His Ile Gln Gly Gly Asn Asp Ile Ala Ala Ile His Pro
 115 120 125
 Val Thr Ala Ala Gln Ala Phe Leu Val Gln Arg Tyr Pro Trp Ser His
 130 135 140

12161

Phe Gln Phe Asp Leu Ser Gly Ala Val Ser Pro Ser Lys Leu Gln Thr
 145 150 155 160
 Ala Cys Thr Ala Leu Met Ala Arg Phe Thr Ile Leu Arg Thr Val Phe
 165 170 175
 Val Glu His Ala Gly Cys Leu Leu Gln Leu Val Leu Arg Glu Val Pro
 180 185 190
 Asn Arg Val His Glu Ile Thr Thr Asn Glu Pro Leu Asp Asp Phe Cys
 195 200 205
 Asn Ser Val Cys Gln Gln Gln Gln Asp Val Cys Val Val Asn Ser Thr
 210 215 220
 Thr Leu Pro Thr Leu Phe Thr Leu Val Ser Asn Arg Gln Leu Asn Arg
 225 230 235 240
 His Arg Leu Leu Leu Arg Leu Ala His Ala Gln Tyr Asp Leu Thr Thr
 245 250 255
 Ile Pro Leu Ile Val Gln Ser Leu Ala Asp Glu Tyr Asn Arg Thr Leu
 260 265 270
 Arg Ser Gly Phe Ser Ala Asp Phe Gly Tyr Tyr Leu Ser His His Lys
 275 280 285
 Arg Gln Asn Asn Asp Asp Arg Ser His Asn Phe Trp Lys Arg Tyr Leu
 290 295 300
 Ser Gly Ser Ser Met Met Ser Thr Asn Gln Thr Ala Asp Pro Thr Thr
 305 310 315 320
 Val Gln Glu Arg Val Phe His Val Thr Gly Ser Cys Ile Ile Ile Pro
 325 330 335
 Thr Ser His Pro Pro Asp Ile Thr Ile Ala Thr Ala Val Lys Ala Ala
 340 345 350
 Val Cys Leu Val Leu Ala Ala Arg Thr Gly Cys Lys Asp Ile Val Ile
 355 360 365
 Gly Gln Thr Val Asp Ala Arg Cys Ser Ser Ala Asp Ser Thr Leu Asp
 370 375 380
 Gln Ile Val Gly Pro Cys Thr Asn Tyr Ile Pro Tyr Arg Leu Ser Val
 385 390 395 400
 Cys Cys Ser Lys Thr Ala Leu Glu Tyr Leu Arg Ser Ala Gln Ala Gln
 405 410 415
 His Thr Thr Cys Leu Arg Tyr Ser Ser Leu Asp Phe Asp Gln Ile Val
 420 425 430
 Ala Lys Cys Thr Ser Trp Pro Ser Ser Thr Gln Phe Gly Tyr Ile Val
 435 440 445
 Gln His Gln Asp Thr Gly Ala Glu Leu Ala Leu Thr Leu Gly Gly Asp
 450 455 460
 Thr Thr Ser Leu Pro Met Thr Ser Tyr Gly Arg Val Phe Pro Gln Gly
 465 470 475 480
 Glu Val Trp Ile Gly Ser Thr Pro Cys Ser Thr Gly Leu Arg Ile Asp
 485 490 495
 Val Ile Ala Leu Ser Ala Val Leu Ser Gln Lys Asp Ala Gln Thr Met
 500 505 510
 Ala Glu Glu Val Gly Ala Ala Leu Glu Lys Leu Leu Gly Cys Gly Tyr
 515 520 525
 Arg Arg Leu Ser His Leu Ile Gly Asn Thr Phe Ala Thr
 530 535 540

<210> 31496

<211> 524

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (521)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31496

Lys Asp Leu Gly Arg Arg Asp Met Asp Leu Gln Ser Val Gln Asp Leu
 1 5 10 15
 Lys Gly Val Leu Arg Arg Asp Phe Phe His Gly Tyr Ala Thr Ala Ala
 20 25 30
 Ala Gln Val Glu Gly Ala Trp Asn Lys Asp Gly Lys Gly Gln Ser Ile
 35 40 45
 Trp Asp Thr Phe Ala His Thr Pro Gly Lys Val Lys Asp Gly Ser Thr
 50 55 60
 Gly Asp Asp Ala Val Arg Ser Tyr Asp Leu Tyr Lys Glu Asp Val Ala
 65 70 75 80
 Leu Met Lys Ser Tyr Gly Val Asn Ala Tyr Arg Phe Ser Leu Ser Trp
 85 90 95
 Ser Arg Ile Ile Pro Leu Gly Gly Cys Asp Asp Leu Val Asn Glu Lys
 100 105 110
 Gly Ile Glu Tyr Tyr Ser Asn Leu Val Asp Glu Leu Leu Arg Asn Gly
 115 120 125
 Ile Thr Pro Phe Val Thr Leu Phe His Trp Asp Thr Pro Gln Ser Leu
 130 135 140
 Glu Asp Arg Tyr Gly Gly Met Leu Asn Gln Glu Lys Phe Val Pro Asp
 145 150 155 160
 Phe Val Asn Tyr Ala Arg Val Cys Phe Glu Arg Leu Gly Asp Arg Val
 165 170 175
 Lys His Trp Ile Thr Phe Asn Glu Pro Gly Val Tyr Thr Leu Ala Gly
 180 185 190
 Tyr Ala Ala Gly Val His Ala Pro Gly Arg Ser Ser Phe Arg Asp Arg
 195 200 205
 Asn Glu Glu Gly Asp Ser Ser Thr Glu Pro Phe Ile Val Ala His Thr
 210 215 220
 Glu Leu Val Ala His Gly His Val Ser Arg Leu Tyr Lys Gln Glu Phe
 225 230 235 240
 Gln Pro His Gln Gln Gly Thr Ile Gly Ile Thr Leu His Gly Asn Trp
 245 250 255
 Ser Glu Pro Trp Asp Glu Ala Asp Pro Leu Asp Gln Ala Ala Ala Glu
 260 265 270
 Arg Ala Arg Glu Phe Glu Ile Ala Trp Phe Ala Asp Pro Leu Tyr Lys
 275 280 285
 Thr Gly Asp Tyr Pro Ala Ser Met Arg Ala Gln Leu Gly Asp Arg Leu
 290 295 300
 Pro Lys Phe Thr Pro Glu Glu Ser Lys Leu Val Leu Gly Ser Ser Glu
 305 310 315 320
 Phe Tyr Gly Met Asn Ser Tyr Thr Thr Phe Phe Val Lys His Lys Thr
 325 330 335
 Thr Pro Ala Asp Ile Asn Asp His Lys Gly Asn Val Glu Ile His Asp
 340 345 350
 Phe Asn Lys His Gly Ile Pro Arg Gly Glu Glu Ser Asp Thr Glu Trp
 355 360 365
 Leu Arg Ala Ala Pro Trp Gly Phe Arg Lys Leu Leu Asn Trp Ile Trp
 370 375 380
 Ser Arg Tyr Gln Met Pro Ile Tyr Val Thr Glu Asn Gly Thr Thr Ala
 385 390 395 400

12163

Lys Gly Glu Thr Ala Pro Ser Pro Ser Val Leu Asn Asp Gln Phe Arg
 405 410 415
 Ile Arg Phe Phe Glu Gly Tyr Val Gly Trp Ala Leu Ala Arg Ala Val
 420 425 430
 Lys Glu Asp Gly Ile Asp Ile Arg Ser Tyr Phe Ala Trp Thr Phe Thr
 435 440 445
 Asp Asn Trp Gly Lys Phe Phe Phe Arg Leu Ser Ser Lys Cys Asn Ala
 450 455 460
 Glu Asp Gly Thr Glu Trp Ala Ala Gly Tyr Thr Asp Arg Phe Gly Cys
 465 470 475 480
 Thr Phe Ile Asp Phe Asp Ser Pro Glu Lys Thr Arg Tyr Pro Lys Gln
 485 490 495
 Ser Ala Tyr Tyr Leu Asp Asn Leu Phe Lys His Leu Ile Lys Gly Ser
 500 505 510
 Ser Pro Gly Val Glu Gly Arg Ala Xaa Leu Ile Ser
 515 520

<210> 31497

<211> 143

<212> PRT

<213> A.fumigatus

<400> 31497

Thr Arg Lys Ser Leu Cys Arg Thr Leu Ser Ile Thr Leu Val Phe Ala
 1 5 10 15
 Ser Arg Asp Ser Ala Ile Ala Ser Ser Ile Gly Ser Arg Ser Thr Asn
 20 25 30
 Leu Val Ser Ile Arg Trp Leu Asp Met Gln Arg Ala Ser Thr His Arg
 35 40 45
 Ala Gly Leu His Ser Gly Thr Ala Thr Arg Arg Ala Thr Arg Pro Pro
 50 55 60
 Ser His Ser Ser Leu Arg Thr Arg Ser Trp Ser Pro Thr Gly Thr Cys
 65 70 75 80
 Pro Val Ser Thr Ser Lys Ser Ser Ser Pro Ile Ser Lys Gly Pro Ser
 85 90 95
 Ala Ser Arg Phe Thr Gly Thr Gly Pro Ser His Gly Met Lys Pro Thr
 100 105 110
 Arg Trp Ile Lys Arg Pro Leu Ser Ala Arg Ala Ser Ser Arg Leu Pro
 115 120 125
 Gly Ser Arg Thr Arg Ser Thr Arg Arg Val Thr Ile Arg Pro Arg
 130 135 140

<210> 31498

<211> 341

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (46), (50), (87), (147)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31498

Phe Gly Ile Arg Gly Arg Asn Trp Glu Gln Arg Gln Arg Arg Pro Arg
 1 5 10 15
 Lys Gly Gln Leu Ala Gly Glu Ala Met Gly Lys Thr Asp Asn Lys Gly

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      20      25      30
Glu Trp Gln Pro Glu Glu Gly Gly Ser Phe Arg Ala Ile Xaa Val Thr
      35      40      45
Phe Xaa Lys Gln Tyr Ile Phe Ile Asp Trp Val Lys Val Leu Met Met
      50      55      60
His Asp Pro Tyr Phe Trp Gly Leu Val Glu Ser Ala Pro Ala Arg Pro
      65      70      75      80
Phe Pro Phe Thr Tyr Phe Xaa Leu Pro Thr Ile Pro Asp Ile Val Val
      85      90      95
Arg Leu Tyr Arg Glu Ile Leu Ser Gly Leu Gly Val Tyr Ala Ala Leu
      100      105      110
Ser Phe Val Cys Pro Leu Asn Pro Ile Ile Phe Leu Gly Leu Ser Leu
      115      120      125
Ala Phe Pro Ser Ala Ser Arg Thr Leu Thr Arg Val Pro Leu Asp Ala
      130      135      140
Pro Trp Xaa Tyr Ser Asp Pro Phe Gly Pro Phe Leu Gly Pro Tyr Leu
      145      150      155      160
Asp His Gly Leu Val Gly Cys Trp Ser Lys Trp Trp His Gln Leu Phe
      165      170      175
Arg Phe Gly Phe Thr Ser Thr Gly Asn Phe Leu Leu Ser Leu Leu Pro
      180      185      190
Lys His Met Ala Ala Arg Pro Gly Ile Arg Arg Thr Val Met Thr Val
      195      200      205
Thr Ala Phe Phe Leu Ser Gly Leu Ile His Ala Ser Gly Ser Tyr Thr
      210      215      220
Gln Phe Ala Glu Thr Lys Pro His Thr His Phe Val Phe Phe Cys Leu
      225      230      235      240
Gln Pro Val Gly Val Met Ile Gln Asn Gln Leu Ala Arg Ser Ile Asn
      245      250      255
Ala Arg Tyr Arg Phe Ser Arg Pro Ile Arg Arg Ala Ala Asn Ala Ile
      260      265      270
Phe Ala Leu Trp Trp Leu Met Leu Ser Gly Ala Ser Ile Ala Asp Asp
      275      280      285
Phe Ala Arg Gly Gly Leu Trp Leu Thr Glu Pro Leu Pro Ile Ser Pro
      290      295      300
Leu Arg Gly Leu Gly Leu Gly Ala Lys Gly Glu Gly Trp Trp Cys Trp
      305      310      315      320
Gly Glu Pro Trp Phe Arg Ser Trp Asp Gly Gly Lys Tyr Trp Glu Arg
      325      330      335
Gly Leu Arg Val Leu
      340

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<210> 31499

<211> 224

<212> PRT

<213> A.fumigatus

<400> 31499

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Ser Ile His Tyr Gln Pro Ser Ile Val Thr Ser Ser Ser Ser Ser Ser
1      5      10      15
Ser Ser Ser Ser Val Ser Gly Ser Met Phe Ser Val Gly Ile Ser Ser
      20      25      30
Ser Leu Ser Ser Ser Pro Ala Ser Ala Ala Thr Thr Ala Val Pro Asp
      35      40      45
Ile Gly Ala Ser Ala Pro Asp Val Ala Ala Cys Ala Met Leu Ile Gly
      50      55      60

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12165

Ile Gly Ser Glu Val Ala Val Thr Glu Ala Ala Gly Ile Glu Ile Ala
 65 70 75 80
 Ala Val Ala Val Asn Glu Val Gly Glu Ala Val Pro Arg Ala Gly Trp
 85 90 95
 Asp Lys Thr Ala Ser Val Ser Ser Arg Thr Phe Phe Val Cys Thr Ser
 100 105 110
 Ser Ser Phe Leu Ser Val Arg Leu Ala Ala Gly Ala Ile Gly Ile Pro
 115 120 125
 Gly Leu Ile Ser Ser Gly Arg Leu Arg Leu Cys Met Asp Gly Ala Gly
 130 135 140
 Ser Ser Ile Ala Ser Val Met Pro Arg Leu Leu Trp Ile Ile Gly Val
 145 150 155 160
 Ala Val Gly Leu Arg Asn Pro Val Ser Ser Gly Ala Ala Cys Cys Thr
 165 170 175
 Ala Ala Val Val Arg Ser Ser Cys Ser Ser Ser Ser Ser Ser Leu
 180 185 190
 Ser Ser Thr Met Leu Pro Tyr Pro Leu Ile Pro Gly Ala Cys Ile Arg
 195 200 205
 Thr Gly Ile Leu Gly Leu Ile Ser Pro Ser Thr Ser Ile Ser Val Glu
 210 215 220

<210> 31500

<211> 236

<212> PRT

<213> A.fumigatus

<400> 31500

Lys Gly Arg Gly Thr Gly Ser Ser Ile Met Pro Phe Leu Ala Arg Arg
 1 5 10 15
 Tyr Ser Thr Glu Met Glu Val Glu Gly Leu Ile Arg Pro Arg Met Pro
 20 25 30
 Val Leu Met His Ala Pro Gly Ile Ser Gly Tyr Gly Ser Met Val Asp
 35 40 45
 Asp Asn Asp Asp Glu Glu Asp Glu Glu Gln Glu Glu Arg Thr Thr Ala
 50 55 60
 Ala Val Gln His Ala Ala Pro Glu Leu Thr Gly Phe Leu Arg Pro Thr
 65 70 75 80
 Ala Thr Pro Ile Ile Gln Ser Arg Arg Gly Ile Thr Glu Ala Met Glu
 85 90 95
 Glu Pro Ala Pro Ser Met His Lys Arg Ser Leu Pro Glu Glu Ile Asn
 100 105 110
 Pro Gly Met Pro Ile Ala Pro Ala Ala Ser Leu Thr Asp Lys Lys Leu
 115 120 125
 Asp Asp Val Gln Thr Lys Lys Val Arg Leu Asp Thr Glu Ala Val Leu
 130 135 140
 Ser Gln Pro Ala Leu Gly Thr Ala Ser Pro Thr Ser Phe Thr Ala Thr
 145 150 155 160
 Ala Ala Ile Ser Ile Pro Ala Ala Ser Val Thr Ala Thr Ser Glu Pro
 165 170 175
 Met Pro Met Ser Ile Ala Gln Ala Ala Thr Ser Gly Ala Asp Ala Pro
 180 185 190
 Met Ser Gly Thr Ala Val Val Ala Ala Glu Ala Gly Asp Asp Asp Ser
 195 200 205
 Asp Asp Glu Ile Pro Thr Leu Asn Ile Glu Pro Asp Thr Asp Glu Asp
 210 215 220
 Asp Glu Asp Asp Glu Glu Asp Val Thr Met Asp Gly

225

230

235

<210> 31501
 <211> 70
 <212> PRT
 <213> A.fumigatus

<400> 31501
 Leu Asn Lys Met Val His Ile Ser Arg Val Gln Lys Arg Pro Lys Gly
 1 5 10 15
 His Arg Ala Arg Lys Ala Glu Val Thr Asp Tyr Val Tyr Gly Thr His
 20 25 30
 Phe Ala Ala Gln Asp Leu Pro His His Glu Met Ala Glu Cys Glu Met
 35 40 45
 Pro Ala Ala Val Ala Tyr Arg Leu Ile Lys Asp Glu Leu Ser Leu Asp
 50 55 60
 Gly Asn Pro Leu Leu Lys
 65 70

<210> 31502
 <211> 203
 <212> PRT
 <213> A.fumigatus

<400> 31502
 Thr Gln Pro Ser His Thr Phe Gln Pro Thr Asn Ser Ile Val Thr Pro
 1 5 10 15
 Val Met Ser Ser Pro Arg Gln Asn Gly Val Gln Thr Ser Cys Glu Pro
 20 25 30
 Cys Arg Arg Ser Lys Leu Arg Cys Asp Tyr Ser Thr Pro Thr Cys Gln
 35 40 45
 Arg Cys Leu Arg Arg Gly Lys Ser Asp Val Cys Val Tyr His Pro Ser
 50 55 60
 Pro Met Thr Arg Ser Trp Tyr Ser Asp Pro Val Ser Ser Pro His Thr
 65 70 75 80
 Pro Ala Ser Ser Asp Asn Asn Trp Asp Lys Lys Ile Gln Ser Val Pro
 85 90 95
 Pro Pro Gly Ser Ser Arg Leu Thr Ser Tyr Ser Gly Val Ser Ser Glu
 100 105 110
 Ile Asp Glu His Leu Asn Glu Ile Phe Ala Pro Leu Ala Thr Leu Glu
 115 120 125
 His Gly Gly Thr Gly Ser Ser Pro Lys Gln Val Gln Leu Gly Ala Arg
 130 135 140
 Leu Leu Leu Thr Leu Phe Gly Asn Leu Ser Leu Tyr Glu Thr Ile Thr
 145 150 155 160
 Glu Asn Arg Ser Asp Asn Ser Pro Glu Gly Cys Val Val Gly Gln Gln
 165 170 175
 Leu Val Arg Met Ile Phe Arg Ala Leu Lys Asp Asn His Lys Leu Pro
 180 185 190
 Gly Lys Trp Pro Gly Cys Arg Arg Ser Val Leu
 195 200

<210> 31503
 <211> 78
 <212> PRT
 <213> A.fumigatus

<400> 31503

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Tyr Thr Arg Ala Arg Leu Glu Leu Met Thr Ala Glu Ser Trp Gln Gly
1           5           10           15
Thr Pro His Arg Ser Lys Thr Thr Met Phe Phe Gly Met Thr Arg Lys
          20           25           30
Ile Glu Gln Arg Ser Val Asn Tyr Val Lys Ser Ile Tyr Tyr Arg Val
          35           40           45
Ser Tyr Tyr Gly Tyr Ile Asn Pro Ala Lys Asp His Arg Arg His Asn
          50           55           60
Arg Gln Gly Gln Gln Arg His Leu Ser His Phe Arg Tyr Leu
65           70           75

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<210> 31504

<211> 100

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (46), (61)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31504

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Gly Lys Asn Arg Gly Arg Gly Val Lys Gly Tyr Gly Tyr Trp Ala Pro
1           5           10           15
Gln Pro Pro Phe Thr Val Val Ile Thr Gly Glu Pro Ile Arg Ala Pro
          20           25           30
Ser Asn Arg Ser Glu Asp Trp Asn Ser Thr Pro Trp Val Xaa Val Pro
          35           40           45
Lys Gly His Val Ile Pro Val Pro Cys Gly Gly Ser Xaa Asn Ala Pro
          50           55           60
Leu Tyr Ser Ile Ser Ser Val Val Phe Asp Tyr Lys Gln Ala Ala Tyr
65           70           75           80
Pro Glu Trp Gly Ser Pro Pro Ala Gly Gln Ser Gly Ile Ala Asn Val
          85           90           95
Pro Ser Arg Lys
          100

```

<210> 31505

<211> 190

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (18)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31505

```

Tyr Ser Val Asn Asn Gly Leu Thr Leu Lys Thr Ala Thr Val Thr Thr
1           5           10           15
Asp Xaa Tyr Ala Ala Arg Asn Thr Leu Thr His Arg Ile Leu Gly Pro
          20           25           30
Asp Ser Thr Ala Thr Ile Glu Leu Thr Ile Ser Asn Met Lys Pro Gly
          35           40           45

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<210> 31506
<211> 98
<212> PRT
<213> A.fumigatus
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<210> 31507
<211> 65
<212> PRT
<213> A.fumigatus
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<400> 31507
Ile Asn Glu Lys Val Ser Ser Arg Val Ala His Glu Ile Val Gln Pro
1      5      10      15
Lys Ala Gly Arg Tyr Arg Lys Val Thr Gln Val Thr Phe Thr Thr Tyr
      20      25      30
Val Met Asp Asp Asn Thr Met Arg Met Met Ile Ser Tyr Asn Lys Tyr
      35      40      45
Gln Ile Leu Asp Val Pro Trp Tyr Ile Phe Ser Cys Tyr Glu Tyr Val
      50      55      60
Ser
65

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<210> 31508
 <211> 669
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (29)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31508
 Leu Ile Ala Phe Pro Pro Gly Gly Ala Ser Arg Thr Lys Leu Ala Ser
 1 5 10 15
 Lys Ser Arg Gly Lys Leu Thr Asp Ser Arg Pro Val Xaa Gly Asp His
 20 25 30
 Gly Trp Lys Pro Leu Pro Leu Phe Gln Ala Tyr Pro Gln Ala Ile Lys
 35 40 45
 His Asp Cys Phe Trp Ala Pro Ala Leu Ser Ala Asp Ser Ile Leu Arg
 50 55 60
 Ile Gln Ala Thr Ala Lys Ser His Ser Ser Ser Asn Asp Val Asp Pro
 65 70 75 80
 Gln Gly Asn Gln Pro Pro Asn Glu Glu Ala Ser Ala Glu Arg Lys Lys
 85 90 95
 Lys Glu Glu Arg Val Lys Lys His Met Arg Thr Val Ser Asp Thr Ile
 100 105 110
 Gly Lys Thr Glu Trp Ser Gln Lys Ile Tyr Val Leu Val Thr Ser Gly
 115 120 125
 Tyr Ile Leu Gln Tyr Ser Ala Ser Gly Lys His Asp Arg Leu Pro Glu
 130 135 140
 Lys Met Leu Gln Val Gly Pro Arg Ser Val Ala Phe Ala Ser Asp Ala
 145 150 155 160
 Ile Pro Gly Lys Arg Tyr Val Leu Gln Ile Ser Gln Ser Ser Glu Glu
 165 170 175
 Asp Ser Thr Ala Thr Val Asp Thr His Arg Pro Leu Phe Ser Arg Leu
 180 185 190
 Gly Phe His Arg Ser Tyr Ser Arg Arg Trp Thr Arg Thr Phe Leu Leu
 195 200 205
 Val Phe Cys Asn Ala Glu Glu Met Ser Ser Trp Leu Leu Ala Val Arg
 210 215 220
 Ala Gln Ile Glu Ala Arg Gly Gly Lys Lys Tyr Ile Ser Glu Asn Leu
 225 230 235 240
 Tyr Asp Glu Asp Leu Glu His Gln Leu Arg Pro Lys Pro Ser Ile Arg
 245 250 255
 Gln Met Val Gln Arg Asp Pro Asn Arg Phe Ser Lys Ile Tyr Leu Gln
 260 265 270
 Pro His Gln Ser Ala Gly Ser Asp Glu Lys Asp Gln Ala Pro Ser Asp
 275 280 285
 Gln Ser Arg Arg Ser Ser Tyr Ile Ser Val Gln Arg Arg Ser Ile Val
 290 295 300
 Tyr Gln Ser Gly Ala Glu Ser Arg Ser Asn Ser Met Ser Thr Thr Gln
 305 310 315 320
 Thr Asp Val Thr Pro Pro Val Asn Gly Phe Gly Arg Leu Tyr Pro Ser
 325 330 335
 Ala Ser Pro Pro Ser Gly Pro Tyr Thr Leu Pro Asn Gly Leu Thr Val
 340 345 350

12170

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Pro Gly Thr Ser Glu Pro Gly Val Pro Pro Ser Ser Thr Thr Ala Ser
    355                      360                      365
Met Thr Lys Arg Leu Ser Thr Tyr Val Ala Gly Ser Leu Ser Thr Glu
    370                      375                      380
Gly His Glu Pro Gly Ser Ser Pro Pro Thr Val Pro Glu Pro Ile Leu
385                      390                      395                      400
Arg Ser Thr Ser Pro Pro Ala Pro Asn Phe Ser Val Pro Ser Phe Ser
    405                      410                      415
Lys Arg Phe Ala Ala Lys Thr Val Gln Ala Lys Leu Val Gln Asp Pro
    420                      425                      430
Arg Leu Asp Cys Asp Gln Ser Asn Gly Ile Arg His Gln Glu Ser Asp
    435                      440                      445
Glu Gln Leu Asp Ala Leu Ser Ala Phe Pro Ser Pro Pro Gln Ser Pro
    450                      455                      460
Ala Arg Asn Met Ser Lys Met Ser Leu Asn Asp Ile His Glu Asp Pro
465                      470                      475                      480
Ser Thr Val Arg Asn Ala Ser Pro Arg Arg Gln Leu Arg Val Ser Asn
    485                      490                      495
Ser Glu Asp Ser Leu Ala Asp Leu Gln Gln Arg Asn Asn Asp His Arg
    500                      505                      510
Ser Leu Pro Asn Gln Arg Leu Pro Ile Thr Tyr Thr Met Pro Ser His
    515                      520                      525
Ser Arg Pro Gln Ser Ile Ala Ile Asp Pro Leu Ser Lys Leu Pro Ser
    530                      535                      540
Glu Pro Gln Pro Thr Arg Pro Thr Thr Asn His Gly Asn Gln Pro His
545                      550                      555                      560
Leu Glu Leu Gln Arg Asp Arg Met Tyr Pro Thr Asp Arg Ser Gly Arg
    565                      570                      575
Pro Pro Ser Met Ala Arg Arg Lys Ser Met Pro Gly Leu Ser Val Gly
    580                      585                      590
Pro Pro Ala Ala Pro Pro Pro Asn Cys Pro Leu Pro Lys Ile Pro Tyr
    595                      600                      605
Pro Ile Asp Pro His Arg Pro Ile Leu Leu Pro Ser Ala Ser Leu Thr
    610                      615                      620
Ser Arg Ser Ser Gln Leu Pro Pro Ser Lys Ser Leu Arg Asp Arg Gln
625                      630                      635                      640
Arg Ser Phe Ala Ser Ile Asn Pro Pro Thr Ser His Ile Asp Leu Pro
    645                      650                      655
Thr Ala Pro Ser Ile Asp Thr Pro Val Ser Ser Gly Leu
    660                      665

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<210> 31509

<211> 62

<212> PRT

<213> A.fumigatus

<400> 31509

```

Ser Lys Lys Lys Lys Lys Ser Lys Lys Ala Val Ala Gly Ala Val
1                      5                      10                      15
Thr Ala Glu Pro Gln Thr Ala Ser Gly Lys Gly Glu Asp Ser Thr Pro
    20                      25                      30
Ser Ala Thr Thr Thr Ala Thr Pro Ala Ala Asp Ala Ser Gly Val Val
    35                      40                      45
Lys Arg Asp Leu Ala Pro Lys Val Glu Glu Ala Thr Glu Glu
    50                      55                      60

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12171

<210> 31510
 <211> 79
 <212> PRT
 <213> A.fumigatus

<400> 31510
 Ser Val Pro Val His Glu Leu Thr Thr His Arg Lys Ser His Asn Val
 1 5 10 15
 Gln Cys Ser Ile Thr Ala Arg Leu Arg Leu His Phe Glu Ala Lys Asn
 20 25 30
 Pro Thr Met Gln Gln Ser Ser Leu Tyr Thr His Ser Val Thr Gln Met
 35 40 45
 Ser Thr Trp Lys Lys Tyr Gln Ile Ile Thr Ser Glu Thr Ile Ala Thr
 50 55 60
 Thr Ile Leu Leu Ile Thr Lys Tyr Pro Ser Ser Ile Pro Thr Ser
 65 70 75

<210> 31511
 <211> 242
 <212> PRT
 <213> A.fumigatus

<400> 31511
 Cys Ser Gly Thr Gly Ser Asp Glu Lys Leu Tyr Thr Tyr Thr Ile Ile
 1 5 10 15
 Thr Thr Ser Ser Asn Ser Tyr Leu Lys Phe Leu His Asp Arg Met Pro
 20 25 30
 Val Ile Leu Glu Pro Asn Ser Glu Ala Met Lys Met Trp Leu Asp Pro
 35 40 45
 Glu Arg Thr Thr Trp Ser Ser Glu Leu Gln Ser Ile Leu Lys Pro Tyr
 50 55 60
 Glu Gly Glu Leu Glu Cys Tyr Pro Val Thr Lys Glu Val Gly Lys Val
 65 70 75 80
 Gly Asn Asn Ser Pro Asp Phe Ile Ile Pro Ile Asn Ser Lys Asp Asn
 85 90 95
 Lys Ser Asn Ile Ala Asn Phe Phe Ala Asn Ala Lys Lys Gln Lys Gly
 100 105 110
 Gly Ala Asp Ser Phe Ala Arg Asp Glu Asp Ala Lys Glu Ala Leu Pro
 115 120 125
 Ser Ala Glu Gln Lys Val Val Lys Asp Ser Asp Glu Pro Arg Lys Thr
 130 135 140
 Gln Asp Ser Gln Trp Ser Glu Ser Asn Ala Pro Leu Pro Glu Pro Gly
 145 150 155 160
 Val Lys Arg Glu Tyr Pro Leu Asp Gly Asn Asp Ile Ser Asn Glu Thr
 165 170 175
 Pro Lys Arg Gln Lys Thr Glu Pro Ala Pro Ser Leu Ser Pro Arg Gly
 180 185 190
 Lys Ala His Glu Pro Lys Ala Lys Ser Asp Arg Lys Thr Thr Thr Ser
 195 200 205
 Thr Arg Lys Thr Arg Ser Ala Thr His Asn Asp Lys Ser Leu Lys Lys
 210 215 220
 Pro Asn Arg Lys Thr Thr Asp Gly Ser Gln Arg Ile Thr Asn Phe Phe
 225 230 235 240
 Gln Lys

<210> 31512
 <211> 841
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (1), (2)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31512

Xaa	Xaa	Pro	Arg	Gly	Val	Glu	Trp	Trp	Lys	Thr	Asn	Glu	Phe	Gly	Ser
1				5					10					15	
Tyr	His	Pro	Lys	Arg	Lys	Asp	Asp	Ile	Pro	Ala	Leu	Val	Val	Pro	Asp
			20					25					30		
Leu	Ala	Tyr	Ile	Glu	Phe	Thr	Arg	Ala	Pro	Thr	Gly	Asp	Met	Arg	Gly
		35					40					45			
Val	Val	Met	Ser	His	Arg	Thr	Ile	Met	His	Gln	Met	Ala	Cys	Leu	Ser
		50				55				60					
Ala	Ile	Ile	Ala	Thr	Val	Pro	Gly	Ser	Gly	Lys	Ser	Val	Arg	Pro	His
65					70					75					80
Gly	Glu	Thr	Leu	Ile	Ser	Tyr	Leu	Asp	Pro	Arg	Gln	Gly	Ile	Gly	Met
				85				90						95	
Ile	Leu	Gly	Val	Leu	Leu	Thr	Val	Tyr	Gly	Gly	His	Thr	Thr	Val	Trp
			100					105					110		
Leu	Glu	Asp	Arg	Ala	Val	Glu	Thr	Pro	Gly	Leu	Tyr	Ala	His	Leu	Val
		115					120					125			
Thr	Lys	Tyr	Arg	Ala	Thr	Leu	Met	Ala	Ala	Asp	Tyr	Pro	Gly	Leu	Lys
		130				135					140				
Ile	Thr	Ala	Tyr	Asn	Tyr	Gln	Gln	Asp	Pro	Met	Ala	Thr	Arg	His	Phe
145					150					155					160
Lys	Lys	Asn	Ser	Glu	Pro	Asn	Phe	Glu	Asn	Val	Lys	Leu	Cys	Leu	Ile
				165				170						175	
Asp	Thr	Leu	Thr	Val	Asp	Ala	Glu	Phe	His	Glu	Ile	Leu	Ala	Asp	Arg
			180					185					190		
Trp	Leu	Arg	Pro	Met	Arg	Asn	Pro	Arg	Ala	Arg	Glu	Ile	Val	Ala	Pro
		195					200					205			
Met	Leu	Cys	Leu	Pro	Glu	His	Gly	Gly	Met	Val	Ile	Ser	Val	Arg	Asp
		210				215					220				
Trp	Leu	Gly	Gly	Glu	Glu	Arg	Leu	Gly	Cys	Pro	Leu	Thr	His	Glu	Met
225					230					235					240
Asp	Pro	Ala	Glu	Arg	Ser	Glu	Ala	Ala	Asp	Ala	Lys	Lys	Glu	Glu	Arg
				245					250					255	
Lys	Ser	Glu	Asn	Asn	Ser	Gly	Phe	Gly	Ser	Ser	Leu	Leu	Gly	Gly	Gly
			260					265					270		
Val	Arg	Ala	Ser	Pro	Ala	Pro	Lys	Glu	Gln	Asn	Lys	Asn	Glu	Leu	Gly
		275					280					285			
Glu	Val	Leu	Leu	Asp	Lys	Glu	Ala	Leu	Lys	Ser	Asn	Glu	Val	Val	Val
		290				295					300				
Leu	Ala	Met	Gly	Glu	Asp	Ala	Arg	Lys	Tyr	Ala	Ala	Thr	Met	Pro	Asn
305					310					315					320
Ala	Val	Arg	Val	Gly	Ser	Phe	Gly	Tyr	Pro	Ile	Pro	Asp	Ala	Thr	Leu
				325					330					335	
Ala	Val	Val	Asp	Pro	Glu	Thr	Asn	Leu	Leu	Cys	Thr	Pro	Asn	Val	Ile
			340					345					350		
Gly	Glu	Ile	Trp	Val	Asp	Ser	Pro	Ser	Leu	Ser	Gly	Gly	Phe	Trp	Ala

355					360					365						
Leu	Pro	Lys	His	Thr	Glu	Ala	Ile	Phe	His	Ala	Arg	Pro	Tyr	Lys	Phe	
370					375					380						
Glu	Glu	Gly	Asn	Pro	Thr	Pro	Val	Leu	Val	Glu	Pro	Glu	Phe	Leu	Arg	
385					390					395					400	
Thr	Gly	Leu	Leu	Gly	Cys	Val	Ile	Glu	Gly	Lys	Ile	Phe	Val	Leu	Gly	
405					410					415						
Leu	Tyr	Glu	Asp	Arg	Leu	Arg	Gln	Lys	Val	Glu	Trp	Val	Glu	His	Gly	
420					425					430						
Gln	Glu	Ile	Val	Glu	His	Arg	Tyr	Phe	Phe	Val	Gln	His	Met	Ile	Val	
435					440					445						
Ser	Ile	Leu	Lys	Asn	Leu	Pro	Lys	Ile	His	Asp	Cys	Thr	Ala	Phe	Asp	
450					455					460						
Val	Phe	Val	Asn	Asp	Glu	His	Leu	Pro	Ile	Val	Val	Leu	Glu	Ser	Tyr	
465					470					475					480	
Ala	Ala	Ser	Thr	Ala	Pro	Thr	Thr	Ser	Gly	Gly	Pro	Pro	Arg	Gln	Leu	
485					490					495						
Asp	Ser	Val	Leu	Glu	Ser	Leu	Ala	Glu	Arg	Cys	Met	Glu	Val	Leu		
500					505					510						
Tyr	Gln	Glu	His	His	Leu	Arg	Val	Tyr	Cys	Val	Leu	Leu	Thr	Ala	Pro	
515					520					525						
Asn	Thr	Leu	Pro	Arg	Val	Thr	Lys	Asn	Gly	Arg	Arg	Glu	Ile	Gly	Asn	
530					535					540						
Met	Leu	Cys	Arg	Arg	Glu	Phe	Asp	Ala	Gly	Thr	Leu	Pro	Cys	Val	His	
545					550					555					560	
Val	Lys	Phe	Gly	Ile	Glu	Arg	Ser	Val	Met	Asn	Leu	Pro	Val	Gly	Val	
565					570					575						
Asp	Pro	Val	Gly	Gly	Ile	Trp	Ser	Pro	Leu	Ala	Ser	Ala	Thr	Arg	Gln	
580					585					590						
Glu	Met	Leu	Ala	Met	Gln	Glu	Lys	Gln	Tyr	Ser	Gly	Val	Asp	Tyr	Arg	
595					600					605						
Asp	Val	Val	Met	Asp	Asp	Arg	Thr	Ser	Thr	Pro	Leu	Asn	Asn	Phe	Ala	
610					615					620						
Thr	Ile	Val	Asp	Leu	Leu	Gln	Trp	Arg	Val	Ser	Arg	Gln	Ala	Glu	Glu	
625					630					635					640	
Leu	Ala	Tyr	Cys	Thr	Ile	Asp	Gly	Arg	Gly	Lys	Glu	Gly	Lys	Gly	Ile	
645					650					655						
Thr	Trp	Lys	Lys	Phe	Asp	Leu	Lys	Val	Ala	Ala	Val	Ala	Met	Tyr	Leu	
660					665					670						
Lys	Asn	Lys	Val	Lys	Val	Arg	Pro	Gly	Asp	His	Leu	Ile	Leu	Met	Tyr	
675					680					685						
Thr	His	Ser	Glu	Asp	Tyr	Val	Tyr	Ala	Val	His	Ala	Cys	Phe	Cys	Leu	
690					695					700						
Gly	Val	Val	Val	Ile	Pro	Ile	Ala	Pro	Ile	Asp	Gln	Asn	Arg	Leu	Ala	
705					710					715					720	
Glu	Asp	Ala	Pro	Ala	Phe	Leu	His	Val	Ile	Asn	Asp	Phe	Lys	Val	Lys	
725					730					735						
Ala	Ile	Leu	Val	Asn	Ser	Asp	Val	Asp	His	Val	Met	Arg	Gln	Lys	Val	
740					745					750						
Val	Ser	Gln	His	Ile	Lys	Gln	Ser	Ala	Gln	Val	Leu	Lys	Ile	Gly	Val	
755					760					765						
Pro	Ala	Ile	Tyr	Asn	Thr	Ser	Lys	Pro	Ser	Lys	Gln	Ser	His	Gly	Cys	
770					775					780						
Arg	Asp	Leu	Gly	Phe	Thr	Val	Lys	Glu	Thr	Trp	Leu	Gln	Ser	Asp	Gln	
785					790					795					800	
Pro	Ala	Leu	Val	Trp	Thr	Tyr	Trp	Thr	Pro	Asp	Gln	Arg	Arg	Ile	Ser	

12174

	805		810		815										
Val	Gln	Ile	Gly	His	Asp	Thr	Ile	Leu	Gly	Met	Cys	Ser	Leu	His	His
	820						825						830		
Gly	Ala	Lys	Arg	Thr	Thr	Val	Val	Tyr							
	835						840								

<210> 31513
 <211> 79
 <212> PRT
 <213> A.fumigatus

<400> 31513

Tyr	Ala	Leu	Ser	Ser	Leu	Leu	Pro	Ser	Leu	Ala	Leu	Ser	Val	Cys	His
1			5					10					15		
Phe	Arg	Phe	Leu	Glu	Pro	Phe	Pro	Arg	Val	Met	Cys	Ile	Pro	Ala	Ile
	20						25					30			
Pro	Lys	Met	Gly	Gln	Thr	Asn	Tyr	Thr	Phe	Pro	Phe	Trp	Pro	Ser	Ala
	35					40					45				
Phe	Asn	Thr	Tyr	Arg	Lys	Gln	Ala	Ser	Glu	Asn	Ser	Leu	Gln	Met	Pro
	50				55					60					
Asn	Tyr	Pro	Gly	Ser	Gln	Ala	Thr	Ile	Pro	Ser	Ser	Gln	Pro	His	
65					70					75					

<210> 31514
 <211> 123
 <212> PRT
 <213> A.fumigatus

<400> 31514

Gln	Met	Ala	Ser	Thr	Ser	Thr	Pro	Ala	Ser	Arg	Ser	Arg	Ser	Thr	Ser
1			5					10					15		
Thr	Ser	Thr	Ser	Lys	Phe	Ser	Thr	Thr	Val	Thr	Ala	Ser	Thr	Pro	Ser
	20						25					30			
Thr	Leu	Gln	Leu	Ser	Ala	Asn	Phe	Ala	Gly	Ala	His	Thr	Lys	Ser	His
	35					40					45				
Ala	Gly	Asn	Ser	Asn	Ala	Val	Gly	Tyr	Asp	His	Glu	Thr	Tyr	Leu	Gln
	50				55					60					
Leu	Thr	Ala	Gly	Glu	Lys	Ala	Lys	Glu	Lys	Thr	Pro	Asn	Gln	Val	Tyr
65					70				75					80	
Arg	Glu	Val	Ser	Asp	Pro	Tyr	Gln	Lys	Arg	Arg	Asn	Ala	Ile	Asp	Val
			85					90					95		
Ile	Ala	Gly	Ala	Ser	Ser	Glu	Ala	His	Asp	Glu	Gly	Ile	Gly	Ser	Ser
		100					105					110			
Tyr	Pro	Arg	Thr	Ser	Gly	Arg	Ser	Glu	Pro	Asp					
		115					120								

<210> 31515
 <211> 134
 <212> PRT
 <213> A.fumigatus

<400> 31515

Pro	His	Gly	Ser	Leu	Val	Leu	Tyr	Ala	Ala	Thr	Pro	Pro	Pro	Arg	Pro
1			5					10					15		
Cys	Ser	Asp	Ile	Ser	Gly	Ser	Leu	Ser	Arg	Ser	Pro	Ser	Ile	Ser	Ala
		20						25					30		

[illegible]

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<210> 31516
<211> 135
<212> PRT
<213> A.fumigatus
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<210> 31517
<211> 400
<212> PRT
<213> A.fumigatus
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<400> 31517															
Met	Gln	Thr	Asp	Phe	Lys	Ser	Phe	Gln	Lys	Pro	Asp	Phe	Ala	Val	Arg
1				5					10					15	
Arg	Arg	Phe	Thr	Asp	Phe	Tyr	Phe	Leu	Tyr	Lys	Thr	Leu	Tyr	Arg	Glu
			20					25					30		
Tyr	Pro	Ala	Cys	Ala	Val	Pro	Pro	Leu	Pro	Glu	Lys	His	Lys	Met	Glu
		35					40					45			
Tyr	Val	Thr	Gly	Asp	Arg	Phe	Gly	Pro	Glu	Phe	Thr	Ser	Arg	Arg	Ala
	50					55					60				
Trp	Ser	Leu	His	Arg	Phe	Leu	Lys	Arg	Leu	Thr	Leu	His	Pro	Val	Leu
65					70					75					80

Arg Arg Ala Pro Leu Leu Ala Ile Phe Leu Glu Ser Pro Asp Trp Asn
 85 90 95
 Ala His Met Arg Leu His Ser Thr Arg Thr Ser Thr Gly Asn Ser Asp
 100 105 110
 Gly Ser Gly Thr Glu Ile Phe Asp Asn Phe Thr Asp Thr Phe Val Asn
 115 120 125
 Ala Phe Thr Lys Val His Lys Pro Asp Arg Arg Phe Ile Glu Val Lys
 130 135 140
 Glu Lys Ala Asp Lys Leu Asp Glu Asp Leu Asn His Val Glu Lys Ile
 145 150 155 160
 Val Ala Arg Val Ala Arg Arg Glu Ser Asp Leu Asp Ala Asp Tyr Asn
 165 170 175
 Asp Leu Ala Thr Gln Phe Arg Lys Leu Val Pro Leu Glu Pro Asp Val
 180 185 190
 Glu Val Pro Leu Gln Ile Phe Ala Ser Val Glu Glu Thr Ala Arg
 195 200 205
 Gly Phe Lys Met Leu Lys Asp His Thr Asp Gln Asn Tyr Leu Gly Ser
 210 215 220
 Leu Arg Asp Met Glu Ala Tyr Ile Val Ser Val Lys Ala Leu Leu Lys
 225 230 235 240
 Thr Arg Glu Gln Lys Gln Leu Asp Phe Glu Ala Leu Val Asp Tyr Arg
 245 250 255
 Asn Lys Ala Val Ala Glu Arg Asp Ser Leu Ala Ala Asn Pro Ser Ser
 260 265 270
 Tyr Tyr Ala Ser Asn Pro Leu Thr Ser Ser Pro Ala Ser Phe Ile Arg
 275 280 285
 Ser Lys Met Glu Asp Met Arg Gly Val Asp His Glu Gln Ser Arg Arg
 290 295 300
 Glu Arg Val Arg Lys Leu Glu Leu Arg Ile Asp Glu Leu Thr Arg Glu
 305 310 315 320
 Val Glu Ser Ala Lys Thr Thr Ser Glu Met Phe Asp Glu Glu Val Val
 325 330 335
 Arg Glu Val Ala Asp Phe Glu Arg Ile Lys Ala Val Glu Phe Arg Asp
 340 345 350
 Thr Leu Gly Ala Leu Ala Glu Lys His Ile Asp Phe Phe Gln Gly Val
 355 360 365
 Ile Asn Thr Trp Glu Arg Phe Val Ala Glu Met Glu Gly Asp Leu Asp
 370 375 380
 Asn Asp Pro Glu Met Ser Glu His Gly Arg Gly Gly Gly Val Ala Ala
 385 390 395 400

<210> 31518

<211> 365

<212> PRT

<213> A.fumigatus

<400> 31518

Leu Arg Phe Asp Ala Tyr Ala His Pro Val Val Lys Met Arg Ile Cys
 1 5 10 15
 Val Glu Asn Gly Met Phe Thr Tyr Ser Phe Leu Lys Glu Ala Ser Gln
 20 25 30
 Lys Phe Arg Gly Trp Ile Asp Asp Leu Leu Ser Ser Ala Trp Ala Ser
 35 40 45
 Cys Gln Asp Ser Asp Leu Leu Ile Glu Ser Pro Ser Ala Met Ala Gly
 50 55 60
 Ile His Ile Ala Glu Ala Leu Arg Ile Pro Tyr Phe Arg Ala Phe Thr

12177

65					70					75					80
Met	Pro	Trp	Ser	Arg	Thr	Arg	Ala	Tyr	Pro	His	Ala	Phe	Ala	Val	Pro
				85					90					95	
Glu	His	Arg	Met	Gly	Gly	Ala	Tyr	Asn	Tyr	Ile	Thr	Tyr	Val	Met	Phe
			100					105					110		
Asp	Asn	Val	Phe	Trp	Lys	Ala	Ile	Ala	Gly	Gln	Val	Asn	Arg	Trp	Arg
			115				120					125			
Lys	Asn	Glu	Leu	Gly	Leu	Lys	Ala	Thr	Thr	Leu	Asp	Lys	Met	Gln	Pro
			130				135				140				
Asn	Lys	Val	Pro	Phe	Leu	Tyr	Asn	Tyr	Ser	Pro	Ser	Val	Val	Pro	Pro
145					150					155				160	
Pro	Leu	Asp	Tyr	Pro	Asp	Trp	Ile	Arg	Ile	Thr	Gly	Tyr	Trp	Phe	Leu
				165					170					175	
Asn	Glu	Gly	Ser	Asp	Trp	Thr	Pro	Pro	Thr	Ala	Leu	Ser	Glu	Phe	Ile
			180					185					190		
His	Arg	Ala	Arg	Glu	Asp	Gly	Lys	Lys	Ile	Val	Tyr	Ile	Gly	Phe	Gly
			195				200					205			
Ser	Ile	Val	Val	Ser	Asp	Pro	Ser	Ala	Leu	Thr	Lys	Thr	Val	Ile	Glu
			210				215				220				
Ser	Val	Leu	Lys	Ala	Asp	Val	Arg	Cys	Ile	Leu	Ser	Lys	Gly	Trp	Ser
225					230					235				240	
Asp	Arg	Leu	Gly	Asp	Pro	Ala	Ser	Ala	Lys	Pro	Glu	Val	Pro	Leu	Pro
				245					250					255	
Ser	Glu	Ile	His	Gln	Ile	Gln	Ala	Ala	Pro	His	Asp	Trp	Leu	Phe	Ser
			260				265						270		
His	Ile	Asp	Ala	Ala	Val	His	His	Gly	Gly	Ala	Gly	Thr	Thr	Gly	Ala
			275				280					285			
Ser	Leu	Arg	Ala	Gly	Val	Pro	Thr	Ile	Ile	Lys	Pro	Phe	Phe	Gly	Asp
			290			295				300					
Gln	Phe	Phe	Phe	Gly	Ser	Arg	Val	Glu	Asp	Leu	Gly	Val	Gly	Ile	Cys
305					310					315				320	
Met	Lys	Lys	Leu	Asn	Val	Ser	Val	Phe	Ser	Arg	Ala	Leu	Trp	Glu	Ala
				325					330					335	
Thr	His	Ser	Glu	Arg	Met	Ile	Ile	Arg	Ala	Gln	Asp	Leu	Gly	Ala	Arg
			340					345					350		
Ile	Arg	Ser	Val	Ser	Asp	Ile	Leu	Thr	Ile	Lys	Phe	Leu			
			355				360					365			

<210> 31519

<211> 280

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (33)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31519

Lys	Ser	Lys	Arg	Ala	Pro	Val	Leu	Val	Thr	Phe	Gly	Gln	Cys	Glu	Val
1				5					10					15	
Glu	Asp	Pro	Lys	Ala	Asp	Leu	Gln	His	Gly	Val	Asp	Asp	Ser	Tyr	Pro
			20					25					30		
Xaa	Asp	Val	Lys	Lys	Gly	Ser	Asp	Thr	Ile	Gln	Ile	Thr	Ala	Lys	Thr
			35				40					45			
Val	Trp	Gly	Ala	Leu	His	Ala	Phe	Thr	Thr	Pro	Gln	Gln	Ile	Ile	Ile

12178

50 55 60
 Ser Asp Gly Lys Gly Gly Leu Ile Ile Glu Gln Pro Val Ser Ile Gln
 65 70 75 80
 Asp Ala Pro Leu Tyr Pro Tyr Arg Gly Ile Met Ile Asp Thr Gly Arg
 85 90 95
 Asn Phe Ile Ser Val Lys Lys Ile Leu Glu Gln Leu Asp Ala Met Ser
 100 105 110
 Leu Ser Lys Leu Asn Val Leu His Trp His Leu Asp Asp Thr Gln Ser
 115 120 125
 Trp Pro Val Gln Ile Asn Ala His Pro Glu Met Val Lys Asp Ala Tyr
 130 135 140
 Ser Val Arg Glu Thr Tyr Ser His Ala Asp Ile Arg Gln Ile Ile Ala
 145 150 155 160
 Tyr Ala Arg Ala Arg Gly Ile Arg Val Ile Pro Glu Val Asp Met Pro
 165 170 175
 Ser His Ser Ser Ser Gly Trp Lys Gln Ala Asp Pro Lys Met Val Thr
 180 185 190
 Cys Ala Asp Ser Trp Trp Ser Asn Asp Val Trp Gln Tyr His Thr Ala
 195 200 205
 Val Gln Pro Asn Pro Gly Gln Leu Asp Ile Ile Tyr Asp Lys Thr Tyr
 210 215 220
 Asp Ile Val Arg Asp Val Tyr Asn Glu Leu Ser Gly Val Phe Thr Asp
 225 230 235 240
 Asn Trp Phe His Val Gly Ala Asp Glu Ile Gln Pro Asn Cys Phe Asn
 245 250 255
 Phe Ser Thr Tyr Val Gln Ser Trp Phe Ala Glu Asp Pro Ser Ser Ser
 260 265 270
 Arg Arg Gly Trp Asn Asp Leu Gln
 275 280

<210> 31520
 <211> 61
 <212> PRT
 <213> A.fumigatus

<400> 31520
 Glu Thr Gln Glu Ser Val Leu Thr Leu Ser Phe Trp Ser Ser Lys Gln
 1 5 10 15
 Gly Trp Lys Arg Ala Ala Val Asn Thr Leu Arg Cys Leu Ala Gly Cys
 20 25 30
 Thr Leu Gly Asp Phe Leu Ala Leu Trp Val Leu Gln Ser Phe Tyr Gly
 35 40 45
 His Trp Asp Met Ser Ala Ile Met Gly Val Ser Ser Met
 50 55 60

<210> 31521
 <211> 325
 <212> PRT
 <213> A.fumigatus

<400> 31521
 Tyr Ser Cys Gln Leu Leu Phe Leu Tyr Thr Asn Gln Leu Pro Leu Thr
 1 5 10 15
 Ser Val Gln Gln His Glu Arg Asp Ala Val Ser Tyr Asp Pro Phe Ser
 20 25 30
 Val Gly Leu Gln Leu Gln Ala Gln Gly Ile Glu Ala Lys His Pro Ile

Lys	Leu	Thr	Thr	Thr	Glu	Lys	Leu	Asp	Tyr	Leu	Leu	Asp	Gln	Ser	Glu
1				5					10					15	
Asp	Trp	Tyr	Pro	His	Gln	Val	Leu	Ser	Asn	Tyr	Ser	His	Xaa	Gly	Ala
			20					25					30		
His	Thr	Thr	Xaa	Glu	Val	Gln	Ala	Asn	Glu	Thr	Asn	Pro	Xaa	Thr	Trp
		35					40					45			
Phe	Asn	Pro	Leu	Glu	Thr	Pro	Val	Ala	Leu	Ala	Pro	Gly	Ile	Glu	Glu

12180

50		55		60											
Leu	Leu	Ala	Leu	Pro	Gly	Gly	Gln	Thr	Arg	Arg	Thr	Pro	Leu	Leu	Leu
65					70				75					80	
Leu	Arg	Lys	Thr	Glu	Pro	Leu	Val	Lys	Leu	Lys	Arg	Trp	Ile	Trp	Asn
			85						90					95	
Pro	Arg	Asn	Pro	Pro	Lys	Gly	Val	Asn	Pro	Gly	Val	Ser	Leu	Gly	
			100					105					110		

<210> 31523
 <211> 162
 <212> PRT
 <213> A.fumigatus

<400> 31523
Leu Leu Thr Phe Asn Ser Phe Tyr Leu Leu Ser Cys Arg Pro Ile Leu
1 5 10 15
Trp Ala Leu Gly Val Ile Val Phe Glu Leu His Ser Gln Ser Glu Phe
20 25 30
Gly Val Thr Ser Ile Ala Ala Phe Cys Phe Pro Leu Arg Pro Phe Leu
35 40 45
Ala Val Ala His Met Leu Arg Arg Arg Leu Ala Lys Asp Asp Asp Val
50 55 60
Gln Gln Thr Lys Asp Lys Ser Arg Asp Asp Lys Gly Lys Ser Ser Pro
65 70 75 80
Asp Thr Lys Thr Val Val Ile Gln Glu Lys Pro Gln Ser Gly Ser Phe
85 90 95
Phe Ser Arg Pro Lys Ser Lys Arg Arg Asn Gly Leu Ile Phe Ala Leu
100 105 110
Gly Gly Ile Phe Gly Ile Phe Val Ala Leu Phe Phe Ala Asn Gln Gln
115 120 125
Asp Val Ile Ser Leu Glu Ser Leu Met Asp Leu Asn Leu Asp Thr Leu
130 135 140
Ile Asp Val Ile Pro Gln Gly Ile Ile Arg Asp Ala Arg Glu Phe Thr
145 150 155 160
Val Cys

<210> 31524
 <211> 176
 <212> PRT
 <213> A.fumigatus

<400> 31524
Lys Lys Val Pro Lys Asn Ser Asp Gly Arg Arg Asn His Met Gly Asn
1 5 10 15
Arg Asn Pro Asn Val Met Arg Asp Pro Gln Asn Ser Cys Leu Gly
20 25 30
Pro Pro Thr Thr Ile Ile Arg His Ser Ala Ile Thr Ser Cys Ser His
35 40 45
Ser Ser Phe Tyr Arg Leu Leu Gln Gln Ser Thr Glu Ile Lys Leu His
50 55 60
Arg Pro Ser Pro Tyr Pro Thr Thr Thr Pro Ala Pro Ile Pro Leu Asp
65 70 75 80
Asp Ser Val Met Ser Gln Asp Asp Ser Ser Pro Ala Glu Pro Thr Ala
85 90 95
Ala Gly Ala Ala Ala Pro Ser Asp Leu Arg Tyr Val Arg Tyr Asp Gly

12181

	100		105		110										
Ser	Arg	Glu	Ser	Glu	Phe	Val	Ser	Ala	Met	Arg	Gln	Leu	Ile	Ser	Lys
	115		120		125										
Asp	Leu	Ser	Glu	Pro	Tyr	Ser	Ile	Tyr	Val	Tyr	Arg	Tyr	Phe	Leu	Tyr
	130		135		140										
Gln	Trp	Gly	Asp	Leu	Cys	Phe	Met	Ala	Met	Asp	Asp	Thr	Lys	Glu	Lys
	145		150		155										160
Asp	Phe	Met	Val	Gly	Val	Val	Ala	Phe	Pro	Thr	Gly	Glu	Asn	Pro	Arg
			165						170						175

<210> 31525

<211> 73

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (55)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31525

Pro	Val	Leu	Met	Asn	Asn	Glu	Ala	Leu	Ala	Glu	Asp	Pro	Pro	Thr	Pro
1			5						10					15	
Leu	Trp	Glu	Leu	Val	Leu	Glu	Gln	Phe	Lys	Asp	Gln	Leu	Val	Leu	Ile
			20				25						30		
Leu	Leu	Gly	Ser	Ala	Ala	Val	Ser	Phe	Val	Leu	Ala	Leu	Phe	Glu	Glu
			35				40						45		
Gly	Asp	Asp	Trp	Thr	Ala	Xaa	Val	Asp	Pro	Val	Val	Val	Arg	Ser	Ala
	50					55					60				
Lys	Pro	Arg	Cys	Thr	Lys	Val	Ile	Ser							
65					70										

<210> 31526

<211> 167

<212> PRT

<213> A.fumigatus

<400> 31526

Ile	Leu	Thr	Ile	Leu	Ile	Leu	Asn	Ala	Val	Val	Gly	Val	Thr	Gln	Glu
1			5						10					15	
Ser	Ser	Ala	Glu	Lys	Ala	Ile	Ala	Ala	Leu	Gln	Glu	Tyr	Ser	Ala	Asn
			20				25						30		
Glu	Ala	Thr	Val	Val	Arg	Asp	Gly	Lys	Thr	Gln	Arg	Ile	Lys	Ala	Glu
			35				40					45			
Asp	Leu	Val	Pro	Gly	Asp	Ile	Ile	His	Ile	Gly	Val	Gly	Asp	Arg	Val
	50				55					60					
Pro	Ala	Asp	Cys	Arg	Leu	Leu	Ala	Ile	Gln	Ser	Asn	Ser	Phe	Arg	Val
65				70					75					80	
Asp	Gln	Ala	Val	Leu	Thr	Gly	Glu	Ser	Glu	Ser	Val	Ser	Lys	Asp	Thr
			85				90						95		
Arg	Ser	Ile	Lys	Asp	Glu	Gln	Ala	Val	Lys	Gln	Asp	Gln	Thr	Asn	Ile
			100				105					110			
Leu	Phe	Ser	Gly	Thr	Ser	Val	Val	Asn	Gly	His	Ala	Thr	Ala	Ile	Val
			115				120					125			
Val	Leu	Thr	Gly	Ala	Ser	Thr	Ala	Ile	Gly	Gly	Ile	His	Glu	Ser	Ile
			130				135					140			

12182

Thr Ser Gln Ile Ser Glu Pro Thr Pro Leu Lys Gln Lys Leu Asn Asp
 145 150 155 160
 Phe Gly Lys Cys Leu Leu Lys
 165

<210> 31527
 <211> 94
 <212> PRT
 <213> A.fumigatus

<400> 31527
 Lys Tyr Cys Tyr Pro Arg Thr Thr Tyr Leu Thr Trp Ser Thr Thr Thr
 1 5 10 15
 Gly Asn Leu Leu Phe Ile Arg Pro Leu Gly Ile His Asp Ser Val Ala
 20 25 30
 Thr Phe Ser Leu Tyr Ile Ser Ser His Ser Phe Phe Leu Ser Leu Leu
 35 40 45
 Phe Val Ser Leu Ser Leu Gly Leu Phe Asp Cys Ser Arg Cys Asp Trp
 50 55 60
 Gln Trp Ser Asp Leu Phe Ser Ile Leu Gln Gln Lys Cys Trp Ser Thr
 65 70 75 80
 Leu Glu Ser Gln Ser Val Leu Val Cys Pro Arg Ile Arg Ser
 85 90

<210> 31528
 <211> 200
 <212> PRT
 <213> A.fumigatus

<400> 31528
 Ser Ile Val Arg Pro Thr Gly Leu Arg Met His Leu Pro Leu Pro Arg
 1 5 10 15
 Gly Ser Arg Ile Cys Cys Asn Leu Ser Arg Leu Gln Val Pro Pro Ser
 20 25 30
 Leu Ser Ser Ser Thr His Ser Ser Ser Ser Ser Ser Phe Ser Ser Asn
 35 40 45
 Arg Ala Gly Arg Cys Ala Cys Gly Cys Arg Asn Ser Ala Ser Cys Ser
 50 55 60
 Cys Ser Cys Cys Val His Pro Ser Ser Leu Ser Pro Leu Thr Lys Ala
 65 70 75 80
 Thr Arg Ser Leu Thr Thr Thr Thr Ser Arg Ala Leu Phe Arg Thr Ser
 85 90 95
 Pro Ser Arg Met Ala Gln Glu Tyr Lys Leu Lys Asp Ile Ser Ser Leu
 100 105 110
 Ala Asp Ile Lys Asn Met Asp Lys Val Glu Ser Glu Val Glu Gly Val
 115 120 125
 Glu Gly Gly Lys Val Leu Val Leu Arg Phe Asn Gly Gln Val His Ala
 130 135 140
 Met Ser Pro Lys Cys Thr His Tyr Gly Ala Pro Leu Lys Leu Gly Val
 145 150 155 160
 Val Ala Pro Asp Gly Arg Ile Thr Cys Pro Trp His Gly Gly Lys Ser
 165 170 175
 Val Leu Val Arg Glu Trp Ala Val Tyr Met Leu Ile Ile Val Ser Gly
 180 185 190
 Ser Leu Phe Gln Tyr Trp Glu Arg
 195 200

<210> 31529
 <211> 69
 <212> PRT
 <213> A.fumigatus

<400> 31529
 Ser Ser Phe Leu Val Ala Cys Phe Asn Ile Gly Ser Gly Asp Val Glu
 1 5 10 15
 Asp Ala Pro Ala Pro Asn Ala Leu Asn Lys Phe Glu Leu Val Glu Lys
 20 25 30
 Asn Gly Ala Val Tyr Ile Lys Gly Glu Glu Ala Ala Ile Lys Ser Gly
 35 40 45
 Gln Arg Asp Pro Val Phe Lys Cys Ser Pro Ser Thr Gly Glu Lys Val
 50 55 60
 Val Val Val Gly Gly
 65

<210> 31530
 <211> 99
 <212> PRT
 <213> A.fumigatus

<400> 31530
 Ala Pro Ser Ser Ser Phe Ser Ile Leu Phe Tyr Ser Phe Ile Leu Ile
 1 5 10 15
 Leu Ile Leu Phe Phe Gln Ser Arg Arg Pro Leu Cys Leu Trp Leu Ser
 20 25 30
 Gln Phe Arg Leu Val Leu Leu Leu Leu Cys Ser Ser Ile Leu Ser
 35 40 45
 Val Pro Phe Asn Gln Ser Tyr Gln Ile Ile Asp Tyr His Tyr Phe Ala
 50 55 60
 Arg Thr Ile Pro His Ile Thr Ile Gln Asn Gly Ala Gly Ile Gln Thr
 65 70 75 80
 Gln Gly His Leu Val Pro Ser Gly His Gln Glu His Gly Gln Gly Arg
 85 90 95
 Val Arg Gly

<210> 31531
 <211> 403
 <212> PRT
 <213> A.fumigatus

<400> 31531
 His Tyr Lys Pro Gly Lys Pro Leu Val Ala Glu Ser Gln Ala Lys Ala
 1 5 10 15
 Ala Ile Gly Pro Leu Trp Met Thr Gln Ile Lys Met Ala Arg Thr Arg
 20 25 30
 Met Met Thr Ile Gln Phe Ser Leu Arg Ile Pro Gln Ala Gly Arg Arg
 35 40 45
 Lys Arg Ala Leu Asp Pro Thr Tyr Ile Pro Gly Lys Asn Asp Val Gly
 50 55 60
 Glu Glu Glu Asp Asp Asp Asp Glu Tyr Ile Pro Thr Gly Leu Gly Arg
 65 70 75 80
 Lys Lys Arg Arg Ile Leu Asp Pro Ala Phe Val Pro Asp Lys Gly Asp

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<210> 31532
<211> 121
<212> PRT
<213> A.fumigatus
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<400> 31532
Ala Leu Met Asp His Leu Ser Leu Arg Arg Asp Ser Ser Gln Met Ala
1          5          10          15
Glu Asn Asn Pro Asp Val Met Asn Glu Leu Ala Thr Lys Leu Gly Leu
          20          25          30
Ser Ser Glu Leu Gln Phe Tyr Asp Val Tyr Ser Leu Asp Glu Pro Glu
          35          40          45
Gln Leu Ala His Ile Pro Arg Pro Ala Met Ala Leu Leu Ala Ile Ile
          50          55          60

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Pro Arg Thr Pro Ala Trp Glu Arg Asp Arg Glu Ala Glu Asp Ala Asn
 65 70 75 80
 Lys Glu Pro Tyr Thr Gly Ser Gly Pro Asn Glu Pro Val Thr Trp Phe
 85 90 95
 Lys Gln Thr Ile Gly His Ala Cys Gly Ser Ile Gly Leu Leu His Asn
 100 105 110
 Leu Val Asn Gly Pro Ala Ala Asp Tyr
 115 120

<210> 31533

<211> 314

<212> PRT

<213> A.fumigatus

<400> 31533

Gln Ala Val Asp Thr Leu Leu Asp Leu His Ala Lys Leu Ser Thr Val
 1 5 10 15
 Val Arg Tyr Tyr Asp Arg Met Leu Glu Glu Arg Leu Ser Ser Ala Tyr
 20 25 30
 Ser Gln His Ser Leu Gly Tyr Ala Thr Ala Pro Gly Gly Ser Pro Tyr
 35 40 45
 Pro Asn Ile Tyr Pro Thr Met Pro Ser His Ile Pro Glu Gly Lys Thr
 50 55 60
 Gly Ala Glu Asn Phe Tyr Tyr Gly Asn Pro Val Ala Asp Arg Ala Pro
 65 70 75 80
 Pro Val Arg Asn Thr Tyr Gly Tyr Pro His Ser Ser Arg Asp Ile Arg
 85 90 95
 Glu Pro Thr Ala Ala Pro Ser Gly Pro Ile Ser Ser Gly Val Tyr Tyr
 100 105 110
 Gln Pro Gly Gln Ala Val Pro Leu Asn Pro Pro Trp Asn Gly Lys Ala
 115 120 125
 Pro Ser Val Ala Ser Pro Gln Pro Ser Asp Pro Ser Thr Pro Phe Pro
 130 135 140
 Asn Ile Ser Ser Asp Asn Leu Glu Pro Ser Ala Trp Arg Gln Tyr Tyr
 145 150 155 160
 Ala Ser Ala Pro His Gln Lys Gln Asp Ser Asn Ala Tyr Ser Gly Pro
 165 170 175
 Arg Pro Gly Glu Thr Asp Val Ser His Gln Ser Ser Pro Asn Met Arg
 180 185 190
 Arg Asp Ser Tyr Tyr Gln Ser Ala Gly Ala Pro Val Thr Ala Arg Ala
 195 200 205
 Ser Ala Pro Glu Gln Ser Pro Pro Thr Asp Gln Gly Gln Ser Pro Ala
 210 215 220
 Tyr Met Gln Tyr Gly Asp Ser His Ser Ala Gln Ser Thr Gly Gln Pro
 225 230 235 240
 Thr His Gln His Gln Pro Thr Ala Pro Pro Gln Ser Tyr Tyr Phe
 245 250 255
 Gln His Gln Pro Pro Gln Ser Ala Pro Leu Pro Thr His Ser Gln Thr
 260 265 270
 Pro Gly Ala Pro Tyr Gly Thr Tyr Pro Gly Gly Asp Val Ser Pro Ile
 275 280 285
 Gly Ala Pro Ala Pro Ala Val His Tyr Gln Pro Ala Ala Gln Thr Lys
 290 295 300
 Pro Ala Val Glu Glu Ser Leu Ile Glu Leu
 305 310

<210> 31534
 <211> 61
 <212> PRT
 <213> A.fumigatus

<400> 31534
 Tyr Tyr His Pro Pro Gly Asp Ala Phe Cys Leu Ala Pro Leu Phe Leu
 1 5 10 15
 Ser Thr Ser Val Phe Tyr Ser His Ser Ser Leu Phe Asp Thr His Phe
 20 25 30
 Ser Thr Asn Gly Val Arg Cys Ile Val Met Ala Phe Ser Leu Arg Ala
 35 40 45
 Phe Leu Ile Lys Phe Gly Ile Ser Tyr Cys Val Asn Leu
 50 55 60

<210> 31535
 <211> 75
 <212> PRT
 <213> A.fumigatus

<400> 31535
 Lys Leu Gln Pro Ser Phe Ala Leu Asp Thr Gly Glu Leu Lys Tyr Ser
 1 5 10 15
 Gly Glu Val Arg Thr Ala Thr Val Pro Asp Ala Phe Phe Gly Pro Leu
 20 25 30
 Lys Leu Ile Ala Tyr Arg Tyr Leu Trp Pro Thr Tyr Ser Glu Asp Ala
 35 40 45
 Ser Asn His His Val Leu Leu Ile Ala Leu Ile Val Ser Ile Lys Gln
 50 55 60
 Arg Asp His Leu Pro Ile Trp Gly Ala Phe Leu
 65 70 75

<210> 31536
 <211> 602
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (533)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31536
 Ile Ile Glu Thr Phe Ser Asp Arg Pro Gly Asp Phe Ser Asn Leu Phe
 1 5 10 15
 His Arg Ile Leu Ser Met Ser Val Asp Asn Ser Leu Ser Thr Phe Ser
 20 25 30
 Arg Gln Ser Ile Leu Ser Phe Ile Ser Ala Phe Gln Ser Leu Glu
 35 40 45
 Asn Val Leu Ile Arg Lys Glu Cys Ala Pro Leu Val Ser Ile Ser Ile
 50 55 60
 Trp His Asn Leu Ser Ser Glu Glu Leu Arg Asp Arg Ile Phe Ala Lys
 65 70 75 80
 Val Pro Ser Leu Lys Lys Ala Trp Arg Ala Ala Gly Lys Arg Tyr Glu
 85 90 95
 Ala Gly Asp Glu Thr Ala Lys Ala Arg Met Arg Phe Glu Arg Ser Trp

100	105	110
Leu Phe Thr Met Leu Leu Asp Phe Leu Arg Arg Leu Asn Gly Ser Glu		
115	120	125
Gln Glu Leu Ser Asp Asn Leu Arg Tyr Cys Glu Arg Phe Leu Glu Tyr		
130	135	140
Leu Val Asp Leu Glu Ser Gln Leu Pro Thr Arg Arg Tyr Val Asn Thr		
145	150	155
Leu Leu Lys Asp Leu Asn Leu Leu Pro Val Ile Arg Leu Ser Gln Met		
165	170	175
Tyr Arg Ser Pro Gly Asn Ala Leu Phe Arg Asp Leu Val Glu Leu Leu		
180	185	190
Asn His Phe Ser Gly Phe Ala Ile Asp Asp Tyr Thr Gly Glu Pro Leu		
195	200	205
Asp Pro Gln Ala Ile Tyr Glu Ser His Ser Arg Glu Leu Ala His Leu		
210	215	220
Gln Arg Thr Ala Met Lys His Phe Lys Asp Lys Leu Met Ile Leu Ala		
225	230	235
Leu Ser Asn Tyr Gly Ser Ile Glu Gln Arg Ser Glu Leu Glu Gly Gln		
245	250	255
Leu Ser Thr Leu Asn Asp Ser Glu Leu Gln Ser Leu Cys Met His Leu		
260	265	270
Gly Phe Arg Thr Asp Tyr Pro Lys Gln Ser Gly Val Ile Pro Thr Arg		
275	280	285
His Leu Tyr Leu Glu Ile Leu Leu Ser Phe Tyr Glu Arg Lys Val Pro		
290	295	300
Phe Gln Glu Thr Ala Ser Arg Leu Ser Ile Val Pro Thr Glu Lys Asp		
305	310	315
Leu Tyr Asp Pro Ser Phe Leu Arg Asn Glu Thr Tyr Asp Gly Ser Arg		
325	330	335
Pro Leu Ala Ile Pro Lys Leu Asn Leu Gln Tyr Leu Ser Leu Gly Asp		
340	345	350
Phe Leu Trp Arg Ser Phe Leu Leu Tyr Arg Ser Glu Ala Phe Phe Gln		
355	360	365
Val Arg Lys Asp Met Glu Ala Ile Ile Lys Arg Met Gln Pro Arg Ser		
370	375	380
Ser Arg Asp Gly Lys Thr Leu Thr Phe Asp Gly Phe Ser Arg Met Ala		
385	390	395
Ile Pro Ile Ser Lys Pro Ala Ile Ile Glu Val Ala Pro Pro Lys Val		
405	410	415
Gly Ser Ser Asp Pro Ala Phe Val Arg Ala Glu Ile Ala Ile Glu Val		
420	425	430
Gly Arg Leu Ala Asp His Ile Arg Lys Glu Trp Asp Ser Leu Arg Pro		
435	440	445
Asp Asp Val Val Phe Leu Leu Ala Val Gln Pro Gly Asn Ala Asn Asn		
450	455	460
Ser Val Phe Arg Asp Ser Ser Val Glu Thr Pro Ser Leu Met His Leu		
465	470	475
Arg Thr Ala Thr Val Val Gln Val Leu Asp Glu Gln Gly Arg Pro Leu		
485	490	495
Arg Glu Pro Val Val Gly His Thr Asn Gly Tyr Gln Ser Arg Pro Arg		
500	505	510
Leu Arg Arg Leu Leu Leu Asn Leu Asp Pro Ser Ala Phe Lys Ala Asp		
515	520	525
Lys Asp Arg Thr Xaa Gln Gly Lys Gln Asp Ile Tyr Pro Leu Ile Asn		
530	535	540
Val Ile Ala Arg Arg Lys Gly Arg Glu Asn Asn Phe Arg Ser Ile Leu		

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545									550									555									560								
Glu	Asn	Met	Gln	Arg	Leu	Ile	Val	Ser	Asp	Val	Thr	Leu	Pro	Ser	Trp																				
				565					570					575																					
Ile	Gln	Asp	Ile	Phe	Leu	Gly	Tyr	Gly	Asp	Pro	Ala	Gly	Ala	Arg	Tyr																				
				580					585					590																					
Thr	Gly	Ile	Ala	Gln	Pro	Thr	Glu	Val	Ser																										
				595					600																										

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<210> 31537
<211> 107
<212> PRT
<213> A.fumigatus
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<400> 31537																
Glu	Leu	Phe	Asn	Leu	Arg	Asn	Val	Gln	Glu	Thr	Ser	Phe	Ser	Phe	Ser	
1				5					10					15		
Gly	His	Glu	Met	Thr	Thr	Met	Ser	Asp	Lys	Leu	Glu	Pro	Leu	Ala	Ile	
			20					25					30			
Val	Gly	Met	Lys	Trp	Arg	Phe	Ser	Gly	Glu	Ala	Asn	Ser	Ala	Ser	Gly	
			35				40					45				
Phe	Trp	Asp	Val	Leu	Thr	Asn	Ala	Arg	Ser	Ala	Lys	Ser	Arg	Ile	Gln	
	50					55					60					
Ala	Asp	Arg	Phe	Asn	Val	Asp	Ala	His	Tyr	His	Pro	Ser	Ala	Asp	Arg	
65				70					75					80		
Asn	Gly	Ser	Val	Ser	Ala	Phe	Asn	Ile	Pro	Trp	Gln	Ser	Asp	Ala	Glu	
			85						90					95		
Ser	Leu	Arg	Arg	Ser	Leu	Arg	Lys	Asp	Thr	Ser						
			100					105								

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<210> 31538
<211> 80
<212> PRT
<213> A.fumigatus
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<400> 31538
Phe Gly Lys Gly Ser Ile Thr Ile Cys Val Arg Val Thr Ser Ser Leu
1          5          10          15
Lys Thr Gly Glu Ser Ala Thr Asp Arg Ser Cys Gly Met His His Glu
          20          25          30
Ile Cys Leu Leu Thr Glu Leu Thr Arg His Ser Leu Asn Leu Met Phe
          35          40          45
Thr Ile Ala Ala Val Ala Thr Asn Val Cys Ala Leu Pro Val Gly Thr
          50          55          60
Ile Leu Asp Gln Tyr Gly Pro Arg Val Cys Gly Ile Ile Ser Ser Ile
65          70          75          80

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<210> 31539
<211> 64
<212> PRT
<213> A.fumigatus
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<400> 31539
His Arg Met Leu Ile Glu Ser Gly Gly Ala Ser Ser Pro Tyr Met Gln
1          5          10
Met Tyr Met Tyr Glu Asp Ser Trp Glu Leu Arg Asp Pro Ala Arg Leu
          20          25          30

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12189

Leu Leu Thr Gln Asp Ser Ile Thr Ala Thr Phe Glu Lys Thr Gln Phe
 35 40 45
 Cys Ser Asn Lys Leu Asp Pro Arg Arg Asn Thr Ser Ser Pro Lys Pro
 50 55 60

<210> 31540
 <211> 239
 <212> PRT
 <213> A.fumigatus

<400> 31540
 Asn Leu Ile Lys Ala Thr Val Cys Arg Leu Gln Pro Lys Leu Cys Phe
 1 5 10 15
 Cys Ser Ala Ser His Leu Gln Cys Ile Ala Met Ser Leu Asn Arg Val
 20 25 30
 Ser Tyr Leu Glu Ser Trp Gly Gln Thr Arg Pro Gly Ser Leu Gln Gln
 35 40 45
 Gln Gln Gln Gly Gln Glu Asp Gly Asp Ser Asp Ser Val Asp Gly Arg
 50 55 60
 Asn Val Asp Leu Pro Glu Ser Ser Leu Ser Ser Ser Phe Gln Ser Thr
 65 70 75 80
 Tyr Thr Tyr Arg Leu Asn Phe Asn Pro Tyr Ala Gly Pro Gly Trp Thr
 85 90 95
 Gln Thr Pro Asp Glu Val Ala Pro Glu Val Leu Pro Ser Gly Pro Glu
 100 105 110
 Thr Pro Thr Ile Lys Thr Gln Pro Lys Pro Leu Glu Glu Gly Asp His
 115 120 125
 Gly Arg Tyr Asp Pro Gln His Ala Ser Leu Arg Leu Pro Asn Glu Asp
 130 135 140
 Tyr Pro Leu Gln Thr Thr Gly Ala Phe Glu Val Ser Ser Thr Arg Arg
 145 150 155 160
 Ile Cys Lys Asn Pro Val Lys Pro Cys Leu Phe Thr Thr Arg Glu Ile
 165 170 175
 Leu Met Arg Tyr Leu Gly Gln Val Ile Val Ala Val Ile Tyr Cys Phe
 180 185 190
 Leu Ala Ala Gly Val Val Phe Gly Phe Ala Ala Leu Lys Pro Val Leu
 195 200 205
 Ile Arg Glu Gly Val Tyr His Asn Leu Cys Ser Arg Asp Glu Leu Ser
 210 215 220
 Lys Asn Arg Gly Val Cys Tyr Gly Gln Glu Leu Arg Tyr Ala Pro
 225 230 235

<210> 31541
 <211> 423
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (163), (165)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31541
 Arg Val Lys Val Leu Asp Asp Leu Cys Arg Leu Val Asp Gly Glu Gln
 1 5 10 15
 Leu His Phe Leu Arg Ile Lys Ser Leu Ser Gln Thr Phe Thr Leu Glu

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<210> 31542
<211> 97
<212> PRT
<213> A.fumigatus
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<400> 31542

Arg His Cys Leu Gln Leu Pro Arg Leu Arg Tyr Leu Leu Val Gly Val
 1 5 10 15
 Lys Pro Cys His Met Ser Pro Leu Leu Leu Leu Gly Lys Ile Thr Glu
 20 25 30
 Tyr Pro Arg Asp Leu Val Arg Lys Pro Lys Phe Val Asp Pro Phe Ile
 35 40 45
 Leu Ala Cys His Ser Arg His Ala Lys Leu Ala Gly Ile Gly Val Val
 50 55 60
 Cys Leu Gln Arg Leu Val Ala Ser Arg Ser Leu Pro Ser Glu Arg Leu
 65 70 75 80
 Asn Asp Val Leu Gly Gly Leu Lys Glu Thr Thr Ser Leu Ser Met Gln
 85 90 95
 Ser

<210> 31543

<211> 98

<212> PRT

<213> A.fumigatus

<400> 31543

Phe Leu Val Val Val Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Leu Ala Cys Pro
 1 5 10 15
 His Thr Arg Ser Ser Thr Phe Phe Ser Ser Val Ser Ile Thr His Phe
 20 25 30
 Phe Pro Leu Leu Ser Ile Ser Phe Pro Glu Tyr Arg Ser Pro Val Tyr
 35 40 45
 Leu Thr Met Val Leu Ile Asp Lys Gln Glu Tyr Leu Thr Gln Glu Glu
 50 55 60
 Gln Arg Leu Lys Glu Asp Arg Glu Arg Thr Arg Tyr Trp Lys Lys Trp
 65 70 75 80
 Gly Pro Tyr Val Ala Glu Arg Gln Trp Ala Thr Gly Glu Ser Ser Leu
 85 90 95
 Tyr Ser

<210> 31544

<211> 65

<212> PRT

<213> A.fumigatus

<400> 31544

Ser Thr Tyr Leu Leu Arg Leu Asp Phe Ser Tyr Asp His Ser Arg Ser
 1 5 10 15
 Arg Thr Tyr Arg Trp Gly Glu Asp Gly Ile Ala Gly Val Ser Asp Thr
 20 25 30
 His Gly Leu Glu Asn Ile Ala Phe Ala Phe Trp Asn Glu Lys Glu Tyr
 35 40 45
 Ala Tyr Ala Phe Leu Asp Met Gln Ser Glu Arg Ser Ser Asp Ile Asp
 50 55 60
 Cys
 65

<210> 31545

<211> 111
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (94)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31545

Met	Ser	Tyr	Asp	Ser	Ala	Phe	Thr	Pro	Gln	Gly	Ala	Ala	Leu	Ser	Asp
1				5					10					15	
Leu	Pro	Trp	Arg	Glu	Gln	Leu	Arg	Arg	Gly	Phe	Lys	Asp	Met	Gly	Ala
			20					25					30		
Arg	Ser	Trp	Ser	Ser	Ala	Lys	Asn	Phe	Gly	Ile	Val	Gly	Ala	Leu	Tyr
		35					40					45			
Ala	Gly	Thr	Glu	Cys	Cys	Ile	Glu	Gly	Leu	Arg	Ala	Lys	Asn	Asp	Leu
	50					55				60					
Thr	Asn	Ser	Val	Ala	Ala	Gly	Cys	Ile	Thr	Gly	Gly	Ile	Leu	Gly	Ala
65					70					75					80
Lys	Ala	Gly	Pro	Gln	Ala	Ala	Ala	Ala	Gly	Cys	Val	Gly	Xaa	Ala	Ala
				85					90					95	
Phe	Ser	Ala	Ala	Ile	Asp	Ala	Tyr	Met	Arg	Met	Pro	Ser	Glu	Glu	
				100				105						110	

<210> 31546
 <211> 164
 <212> PRT
 <213> A.fumigatus

<400> 31546

Thr	Phe	Leu	Glu	Asn	Ile	Arg	Gln	Ala	Thr	Val	Gly	Glu	Glu	Gly	Ile
1				5					10					15	
Asn	Ala	Thr	Gln	Ser	Arg	Gly	Val	Pro	Pro	Ala	Arg	Lys	Arg	Asp	Ser
			20					25					30		
Ser	Ser	Ala	Ser	Arg	Ser	Arg	Asp	Arg	Leu	Ser	Val	His	Gly	Gly	Lys
		35				40						45			
Ser	Ser	Arg	Ser	Pro	Ser	Ser	Ala	Arg	Gly	Lys	Ala	Ala	Gly	Thr	Gln
	50					55				60					
Leu	Ser	Gly	Lys	Asp	Thr	Lys	Ser	Val	Asp	Ile	Asp	Val	Ser	Phe	Trp
65					70					75					80
Ser	Glu	Phe	Gly	Ile	Asp	Thr	Ala	Gly	Gln	Lys	Ser	Thr	Lys	Ala	Arg
			85					90					95		
Gly	Ala	Ser	Asn	Thr	Pro	Arg	Gly	Ala	Thr	Glu	Gln	Glu	Thr	Ser	Asn
			100				105						110		
Asn	Ile	Asp	Val	Glu	Glu	Asn	Trp	Asp	Asp	Trp	Asp	Thr	Pro	Gln	Pro
		115					120					125			
Lys	Lys	Thr	His	Thr	Pro	Ser	Ser	Arg	Ser	Thr	Leu	Glu	Ser	Lys	
	130					135					140				
His	Asp	Gln	Ser	Pro	Ile	Thr	Gln	Asn	Ser	Ser	Pro	Arg	Thr	Ser	Gly
145					150					155					160
Arg	Tyr	Ala	Ile												

<210> 31547
 <211> 402

<212> PRT

<213> A.fumigatus

<400> 31547

Thr Met Met Asn Pro Tyr Ile Ser Trp Ala Leu Leu Leu Val Val Ala
 1 5 10 15
 Gly Gly Leu Gly Trp Tyr Tyr Asn Ala Pro Asn Pro Lys Ala Lys Pro
 20 25 30
 Thr Val Lys Pro Ala Ala Glu Lys Ile Glu Ser Ala Thr Gly Val Lys
 35 40 45
 Lys Pro Lys Lys Lys Ala Lys Lys Ser His Glu Pro Thr Ser Ser Ala
 50 55 60
 Thr Thr Lys Lys Val Glu Glu Lys Pro Ala Phe Glu Asp Gly Ala Thr
 65 70 75 80
 Glu Gly Asp Asp Gly Asp Glu Glu Ile Asp Arg Lys Glu Met Ala Lys
 85 90 95
 Arg Phe Thr Ala Gly Glu Ser Gly Ile Pro Ala Gln Gly Ser Gly Ser
 100 105 110
 Glu Gly Lys Ser Gln Lys Lys Lys Lys Lys Thr Thr Ser Gln Leu Glu
 115 120 125
 Ala Glu Glu Ser Lys Arg Ser Gly Ser Arg Val Ser Ala Arg Thr Ser
 130 135 140
 Ser Thr Ala Gly Ala Asp Ala Asp Asp Asp Leu Ser Pro Ala Gly Ser
 145 150 155 160
 Pro Met Val Lys Pro Thr Ala Ser Ser Ala Gly Tyr Val Ser Asp Met
 165 170 175
 Leu Glu Ala Pro Ala Pro Gly Ala Ser Val Leu Arg Val Thr Gly Ser
 180 185 190
 Met Glu Ala Pro Gln Lys Lys Gln Lys Ala Gln Ser Phe Lys Gln Val
 195 200 205
 Glu Thr Lys Lys Gln Arg Gln Gln Arg Ala Lys Asn Glu Ala Arg Lys
 210 215 220
 Gln Gln Val Gln Glu Ala Glu Arg Arg Lys Leu Leu Glu Lys
 225 230 235 240
 Gln Leu His Thr Ala Arg Glu Ala Glu Arg Arg Glu Ala Ala Lys Thr
 245 250 255
 Lys Leu Val Ala Pro Gln Ser Asn Ala Trp Gln Ala Lys Glu Val Asn
 260 265 270
 Pro Thr Ser Asn Gly Thr Pro Asn Val Ser Gln Gly Pro Asn Val Glu
 275 280 285
 Leu Leu Asp Thr Phe Glu Thr Pro Ser Ser Lys Gln Ser Pro Ala Thr
 290 295 300
 Thr Ser Ser Ser Lys Lys Trp Asp Gln Gly Leu Pro Ser Glu Glu Glu
 305 310 315 320
 Gln Met Arg Ile Leu Gly Ala Asp Pro Ser Asp Asp Trp Thr Thr Val
 325 330 335
 Ser Ser Lys Lys Pro Lys Lys Lys Gly Lys Lys Ala Asp Glu Ser Phe
 340 345 350
 Ser Glu Ala Ser Ala Ser Glu Thr Gln Leu Thr Pro Ala Ala Pro Ala
 355 360 365
 Ala Val Pro Ala Ala Pro Lys Val Thr Val Thr Pro Thr Tyr Ile Pro
 370 375 380
 Asp Ile Leu Arg Ser Lys Gln Lys Gly His Pro Leu Asp Ser Asp Trp
 385 390 395 400
 Ala Ala

<210> 31548
 <211> 80
 <212> PRT
 <213> A.fumigatus

<400> 31548
 Ile Gly Ser Leu Gln Asn Phe Gln Ser Ile Asn Tyr Leu Arg Ser Val
 1 5 10 15
 Thr Thr Arg Gly Tyr Ser Leu Pro Asn Leu Leu Arg Arg Ser Ala Asn
 20 25 30
 Phe Tyr Phe Lys Glu Arg Ser Ile Glu Thr Thr Thr Ile Asn Ile Thr
 35 40 45
 Thr Phe Leu Tyr Phe Phe Leu Ser Leu Leu Leu Leu Phe Glu Lys Pro
 50 55 60
 Ile Cys Pro Arg Leu Leu Arg Ser Tyr Thr Asp Ala Pro Leu Arg Ser
 65 70 75 80

<210> 31549
 <211> 185
 <212> PRT
 <213> A.fumigatus

<400> 31549
 Ser Pro Ile Arg Pro Leu Cys Phe Leu Pro Arg Gly Glu Asp Ala Pro
 1 5 10 15
 Leu Pro Pro Thr Thr Ile Leu Ser Ser Lys Ser Ile Ser Gln Ser Ala
 20 25 30
 Ala His Asp Phe Leu Ala Ala Tyr Leu Asp Arg Ala Ala Thr Asp Pro
 35 40 45
 Ala Leu Gln Pro Asn Ala Ser Ile Ser Glu His Gly Pro Ile Ser Arg
 50 55 60
 Thr Thr Ala Ala Ala Pro Asn Leu Ile Leu His Asn Leu Lys Arg Val
 65 70 75 80
 Gln Ala Gly Leu Ala Gly Glu Val Leu Gly Arg Asp Leu Thr Leu Ala
 85 90 95
 Lys Ile Asn Ala Gly Glu Ala Leu Gln Gly Glu Ser Gly Asp Asn Val
 100 105 110
 Val Trp Glu Glu Thr Lys His Glu Gln Val Ala Ala Asp Asp Ala Met
 115 120 125
 Asp Asp Asp Glu Glu Glu Met Arg Gly Glu Asp Asp Glu Glu Asn Glu
 130 135 140
 Gln Gln Pro Ser Arg Val Gly Gly Glu Ala Asp Lys His Thr Val Asp
 145 150 155 160
 Lys Glu Glu Arg Lys Arg Lys Lys Lys Glu Arg Arg Leu Ala Glu Lys
 165 170 175
 Arg Ala Lys Ala Lys Gly Ala Asp Ala
 180 185

<210> 31550
 <211> 253
 <212> PRT
 <213> A.fumigatus

<400> 31550
 Ala Tyr Gly Arg Ala Lys Ala Lys Phe Gly Phe Ile Ser Gly Leu Tyr

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1           5           10           15
Gly Gln Ile Gln Asn Leu Ala Phe Ile Tyr Gly Asp Val Leu Pro Lys
20           25           30
Leu Trp Gly Leu Ser Gly Leu Leu Leu Ala Arg Tyr Phe Pro Ser Arg
35           40           45
Phe Gln Gly Glu Ile Ser Gln Thr Leu Leu Phe Ile Phe Gly Phe Asn
50           55           60
Leu Ile Ser Thr Val Leu Ser Leu Pro Val Ser Tyr Tyr Asn Thr Phe
65           70           75           80
Val Leu Glu Glu Lys Phe Gly Phe Asn Lys Gln Thr Leu Lys Leu Trp
85           90           95
Val Thr Asp Met Leu Lys Gly Gln Met Leu Gly Ile Val Leu Gly Thr
100          105          110
Pro Ile Ile Ser Ala Val Leu Lys Ile Val Gln Lys Thr Gly Asn Ser
115          120          125
Phe Phe Tyr Tyr Leu Trp Leu Phe Gly Val Phe Val Gln Ile Phe Ala
130          135          140
Ile Thr Ile Tyr Pro Ile Val Ile Leu Pro Leu Phe Asn Lys Leu Ser
145          150          155          160
Pro Leu Glu Pro Gly Glu Leu Lys Thr Gly Val Glu Arg Leu Ala Arg
165          170          175
Glu Leu Lys Phe Leu Leu His Glu Leu Tyr Val Ile Asp Gly Ser Lys
180          185          190
Arg Ser Ala His Ser Asn Ala Tyr Phe Tyr Ala Leu Pro Trp Lys Lys
195          200          205
His Ile Val Ile Tyr Asp Thr Leu Ile Glu Lys Ser Glu Thr Glu Glu
210          215          220
Val Val Ala Val Leu Ser His Glu Leu Gly His Trp Ser Leu Gly His
225          230          235          240
Thr Thr Lys Leu Phe Ala Ile Ala Gln Val Arg Val Tyr
245          250

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<210> 31551

<211> 78

<212> PRT

<213> A.fumigatus

<400> 31551

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Ser His Met Phe Tyr Ile Phe Ala Leu Phe Ser Val Phe Val Asn Asn
1           5           10           15
Lys Ser Leu Tyr Gln Ser Phe Gly Phe His Gln Glu Met Pro Ile Met
20           25           30
Ile Gly Phe Leu Leu Phe Ser Asp Ala Leu Ala Pro Met Asp Ala Val
35           40           45
Val Lys Leu Leu Met Asn Val Leu Ser Arg Lys Phe Glu Phe Glu Ala
50           55           60
Gly Met Ile Ser Val Pro Ser Glu Ile Ser Thr Asp Arg Ser
65           70           75

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<210> 31552

<211> 145

<212> PRT

<213> A.fumigatus

<400> 31552

Ala Ser Ala Pro Leu Ala Leu Ala Leu Phe Ser Ala Asn Arg Arg Ser

12196

1 5 10 15
 Phe Phe Phe Leu Phe Arg Ser Ser Leu Ser Thr Val Cys Leu Ser Ala
 20 25 30
 Ser Pro Pro Thr Leu Leu Gly Cys Cys Ser Phe Ser Ser Ser Ser Ser
 35 40 45
 Pro Arg Ile Ser Ser Ser Ser Ser Ser Ile Ala Ser Ser Ala Ala Thr
 50 55 60
 Cys Ser Cys Leu Val Ser Ser His Thr Thr Leu Ser Pro Leu Ser Pro
 65 70 75 80
 Cys Ser Ala Ser Pro Ala Leu Ile Phe Ala Arg Val Lys Ser Arg Pro
 85 90 95
 Arg Thr Ser Pro Ala Asn Pro Ala Trp Thr Arg Phe Arg Leu Cys Arg
 100 105 110
 Met Arg Phe Gly Ala Ala Ala Val Val Arg Glu Met Gly Pro Cys Ser
 115 120 125
 Leu Met Leu Ala Leu Gly Cys Arg Ala Gly Ser Val Ala Ala Arg Ser
 130 135 140
 Arg
 145

<210> 31553
 <211> 93
 <212> PRT
 <213> A.fumigatus

<400> 31553
 Phe Leu Ser Pro Arg Lys Ser Leu Gln Thr Glu Ala Asp Cys Ala Thr
 1 5 10 15
 Asp Ala Phe Ala Val Lys Leu Gly Tyr Ser Glu Gln Leu Ala Ala Ser
 20 25 30
 Leu Leu Lys Leu Gln Ile Gln Asn Leu Ser Thr Met Asp Ala Asp Trp
 35 40 45
 Met Tyr Ala Ser Tyr His Tyr Ser His Pro Ile Leu Thr Glu Arg Leu
 50 55 60
 Lys Ala Leu Gly Trp Gln Gly Gly Lys Val Thr Asp Ala Lys Thr Glu
 65 70 75 80
 Tyr Ser Glu Arg Pro Val Lys Ala Ala Asp Arg Glu Leu
 85 90

<210> 31554
 <211> 269
 <212> PRT
 <213> A.fumigatus

<400> 31554
 Ile Thr Ile His Pro Ala Gly Val Leu Val Ser Val Asn Thr Thr Arg
 1 5 10 15
 Gln Arg Thr Thr Gly Gln Gln His Ser Ala Leu Phe Lys Pro Pro Val
 20 25 30
 Val Cys Ala Glu Phe Pro Ala Met Tyr Ile Leu Glu Val Ser Ser Gln
 35 40 45
 Lys Tyr Cys Ser Cys Cys Thr Ser Leu Lys Leu Thr Glu Arg Phe Cys
 50 55 60
 Pro Arg Gln Gln Leu Ala Arg Leu Leu Asp Arg Pro Phe Phe Pro Trp
 65 70 75 80
 Lys Asn Val Leu Val Gly Phe Ser Leu Gly Gln Phe Ile Leu Glu Gly

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<210> 31555
<211> 139
<212> PRT
<213> A.fumigatus
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<210> 31556
<211> 76
<212> PRT
<213> A.fumigatus
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12198

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1           5           10           15
His Ile Ala Glu Leu Gln Phe Leu Gln Ala Cys Ile Tyr Ser Ser Gly
           20           25           30
Asp Val Arg Asn Ile Arg Asn Tyr Leu Gly Cys His Lys Lys Leu Leu
           35           40           45
Pro Trp Asp Ala Thr Leu Phe Asp Gly Gln Ala Tyr Leu Trp Phe Cys
           50           55           60
Thr Ile Asp Phe Arg Ala Ile Gln Val Val Ile Ser
65           70           75

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<210> 31557
 <211> 196
 <212> PRT
 <213> A.fumigatus

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<400> 31557
Leu Arg Arg Pro Thr Arg Leu Ile Arg Ser Ile Ala Pro Cys Arg Tyr
1           5           10           15
Leu Ile His Ser Pro Phe Phe Ala Lys Ser Asp Asn Glu Leu Gln Glu
           20           25           30
Ala Trp Ala Ala Met Glu Lys Val Lys Ala Ala Gly Lys Ala Arg Ser
           35           40           45
Ile Gly Val Ser Asn Phe Leu Gln Ser His Leu Glu Ala Ile Leu Lys
           50           55           60
Ser Ala Lys Val Thr Pro Ser Ile Asn Gln Ile Glu Tyr His Pro Tyr
65           70           75           80
Ile Gln His Gly Gly Leu Val Gln Phe Gln Gly Asp Lys Gly Ile Lys
           85           90           95
Thr Ala Ser Tyr Gly Pro Leu Thr Pro Ile Thr Arg Ala Lys Asp Gly
           100          105          110
Pro Leu Gly Glu Val Leu Gln Thr Leu Ala Tyr Lys Tyr Gly Val Ser
           115          120          125
Glu Gly Glu Ile Leu Leu Arg Trp Ser Ile Asp Arg Gly Asp Val Ser
           130          135          140
Ile Thr Thr Ser Ser Lys Glu Ser Arg Leu Ser Ser Tyr Leu Arg Ala
145          150          155          160
Leu Arg Phe Arg Leu Thr Pro Lys Glu Leu Asp Glu Ile Ser Ala Ile
           165          170          175
Gly Arg Gln Lys His Tyr Arg Ala Phe Trp Arg Asp Lys Phe Ala Asp
           180          185          190
Asp Asp Arg Gln
           195

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<210> 31558
 <211> 99
 <212> PRT
 <213> A.fumigatus

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<400> 31558
Phe Ser Leu Cys Gln Leu Gly Tyr Gly Thr Gly Thr Ala Trp Phe Lys
1           5           10           15
Lys Gly Gly Ala Thr Gly Ile Asp Arg Glu Leu Val Glu Ser Ile Lys
           20           25           30
Thr Ala Ile Lys Leu Gly Tyr His His Leu Asp Gly Ala Glu Val Tyr
           35           40           45
Gly Thr Glu Pro Glu Ile Gly Leu Ala Ile Lys Glu Ser Gly Val Pro

```

50		55		60											
Arg	Glu	Gln	Leu	Phe	Val	Thr	Thr	Lys	Val	Ile	Thr	Asn	Ile	Ala	Asp
65				70				75							80
Ile	Pro	Arg	Ala	Ile	Asp	Ala	Ser	Leu	Glu	Lys	Leu	Gln	Leu	Ser	Tyr
			85					90						95	
Val	Asp	Leu													

<210> 31559

<211> 245

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (206)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31559

Ala	Val	Gly	Met	Leu	Ser	Thr	Ser	Cys	Leu	Gln	Gln	Ala	Ser	Leu	Thr
1				5					10					15	
Glu	Glu	Ser	Ser	Pro	Lys	Met	Gly	Leu	Leu	Val	His	Ser	Leu	Gly	His
			20					25					30		
Leu	Met	Ala	Asn	Glu	Tyr	Val	Leu	Ile	Ala	Leu	Ala	Met	Leu	Phe	Phe
		35					40					45			
Leu	Val	Thr	Leu	Ser	Ser	Arg	Ser	His	Ser	Arg	Glu	Arg	Ser	Ser	Thr
	50					55					60				
Ser	Ala	Ser	Pro	Ser	Leu	Asn	Ser	Thr	Arg	Lys	Glu	Cys	Lys	Ala	Pro
65				70					75						80
Asn	Thr	Pro	Ser	Trp	Gly	Arg	Arg	Thr	Pro	Arg	Pro	Ile	Gln	Trp	Tyr
			85						90					95	
Gln	Asp	Met	Tyr	Phe	Gln	Ile	His	Asn	Leu	Glu	Gln	Tyr	Pro	Thr	Val
		100						105					110		
Leu	Glu	Pro	Ala	Arg	Asp	Glu	Leu	Leu	Ala	Met	Ile	Ala	Asp	Gly	Val
	115						120					125			
Ser	Leu	Ala	Leu	Glu	Ala	Pro	Glu	Lys	Gly	Ile	Leu	Arg	Val	Glu	Ser
	130					135					140				
Tyr	Asp	Ala	Glu	Arg	Leu	Arg	Ser	Phe	Ile	Asn	Gly	Glu	His	Glu	Lys
145				150						155					160
Thr	Met	Asn	Glu	Trp	Ala	Arg	Tyr	His	Asp	Arg	Arg	Lys	Leu	Gly	Leu
			165						170					175	
Gly	Pro	Thr	Leu	Phe	Gly	Asn	Ile	Ala	Glu	Ala	Lys	Lys	Trp	Leu	Thr
		180						185					190		
Gln	Arg	Ala	Pro	Ala	Lys	Leu	Val	Asp	Gly	Ala	Trp	Leu	Xaa	His	Ile
	195					200						205			
His	Lys	Ile	Asn	Thr	Pro	Phe	Ala	Leu	Arg	Arg	Val	Thr	Lys	Asp	Ala
	210					215					220				
Trp	Gln	Ile	Leu	Ser	Glu	Leu	Gly	Arg	Arg	Arg	Cys	Gln	Pro	Lys	
225				230					235					240	
Thr	Cys	Ile	His	Leu											
				245											

<210> 31560

<211> 311

<212> PRT

<213> A.fumigatus

<400> 31560

His Glu Ser Tyr Ser Val Glu Ser Val His Ile Ile Arg His Phe Ala
 1 5 10 15
 Asp Gln Cys Ser Asn Arg Lys Leu Pro Ile Leu Tyr Ser Leu Ile Ala
 20 25 30
 Cys Phe Phe Gly Thr Gly Met Val Ala Gly Glu Thr Ser Leu Pro Val
 35 40 45
 Leu Phe Thr Gly Arg Val Met Gln Gly Ile Ala Gly Ser Ser Val Trp
 50 55 60
 Ile Ile Gly Leu Ala Thr Val Ala Asp Thr Val Gly Gly Asp Asn Met
 65 70 75 80
 Gly Lys Val Glu Gly Ile Met Met Ser Phe Leu Tyr Gly Gly Leu Ile
 85 90 95
 Gly Gly Pro Cys Ile Ala Gly Trp Leu Leu Ala Tyr Val Gly Tyr Trp
 100 105 110
 Gln Thr Trp Leu Leu Pro Leu Val Leu Ile Ile Glu Phe Ile Ala
 115 120 125
 Arg Leu Val Met Val Glu Asn Cys Ala Val Pro Thr Ser Ser Ser Gly
 130 135 140
 Pro Glu Thr Ser Ser Lys Ala Asp Gly Ser Thr Lys Pro Leu Leu Ser
 145 150 155 160
 Pro Cys Glu Asp Thr Pro Thr Asn Tyr Pro Ser Glu Asn Phe Trp Arg
 165 170 175
 Ile Ile Leu Thr Asp Val Arg Ala Val Val Ala Ile Cys Val Ala Ile
 180 185 190
 Ser Ala Asn Thr Val Gly Thr Ser Phe His Ala Thr Leu Pro Leu His
 195 200 205
 Val Gln Glu Thr Phe Gly Trp Gly Ser Gly Arg Ser Gly Ser Leu Phe
 210 215 220
 Ala Cys Leu Ile Met Pro Thr Val Val Leu Ser Pro Val Ala Gly Trp
 225 230 235 240
 Leu Arg Asp Cys Phe Gly Val Arg Tyr Pro Ala Ser Ala Ala Val
 245 250 255
 Phe Gln Ala Val Met Phe Gly Ile Leu Gly Leu Ala Gly Thr Asp Leu
 260 265 270
 Leu Pro Trp Thr Ser Ala Gln Ser Gly Gly Gly Ala Leu Tyr Thr Gly
 275 280 285
 Cys Ile Leu Ala Ile Gly Ala Ala Arg Pro Phe Thr Ala Asn Val Gly
 290 295 300
 Pro Val Glu Leu Ser Cys Glu
 305 310

<210> 31561

<211> 115

<212> PRT

<213> A.fumigatus

<400> 31561

Pro Ser Ser Asn Met Val Lys Thr Arg Lys Arg Leu Ala Leu Ala Cys
 1 5 10 15
 Asp Thr Cys Arg Ser Arg Arg Val Lys Cys Asp Gly Glu Arg Pro Phe
 20 25 30
 Cys Ala Pro Cys Arg Thr Arg Gly Leu Asn Cys Phe Tyr Gln Gln Leu
 35 40 45
 Pro Glu Arg Pro Ala Thr Lys Tyr Ala Ser Ser Ser Pro Thr Ala Leu

12201

50		55		60											
Gly	Glu	Leu	Val	Val	Gly	Thr	Asp	Ser	Val	Gln	Ser	Arg	Asn	Arg	Thr
65					70					75					80
Ser	Gln	Cys	Gln	Pro	Ala	Leu	Arg	Leu	Pro	His	His	Ala	Val	Val	Gln
			85						90					95	
Gly	Val	Ser	Thr	Asp	Ser	Gly	Ala	Ala	Thr	Ala	Val	Asp	Gln	Cys	Thr
			100					105					110		
Gly	Val	Ala													
		115													

<210> 31562

<211> 223

<212> PRT

<213> A.fumigatus

<400> 31562

Val	Phe	Leu	Asp	Ala	Arg	Phe	Ile	Arg	Leu	Lys	His	Thr	Phe	Gly	Asn
1				5					10					15	
Arg	Leu	Leu	Arg	Thr	Ala	Asn	Met	Ser	Ser	Ala	Leu	Gly	Ser	His	Leu
			20					25					30		
Leu	Ala	Asp	Val	Thr	Lys	Arg	Lys	Ala	Ala	Arg	Ser	Ala	Arg	Val	Ala
		35					40					45			
Ser	Trp	Asp	Gln	Ser	Gly	Leu	Asn	Glu	Asp	Ala	Phe	Val	Val	Leu	Pro
	50					55					60				
Gly	Glu	Thr	Ala	Val	Leu	Ala	Asp	Leu	Gln	Gly	Pro	Gly	Ala	Ile	Thr
65					70				75					80	
His	Leu	Trp	Phe	Val	Gln	Thr	Cys	Arg	Lys	Ile	Leu	Gly	Pro	Gly	Leu
			85					90					95		
Ile	Pro	Tyr	Thr	Lys	Ser	Gly	Val	Ala	Met	Met	Glu	Ile	His	Asn	Ala
		100						105					110		
Leu	Gly	Leu	Asn	Phe	Glu	Val	Asn	Asp	Pro	Asp	Tyr	Tyr	Arg	Lys	Val
	115						120					125			
Leu	Ile	Lys	Met	Tyr	Trp	Asp	Glu	Ser	Glu	Ser	Pro	Asn	Val	Leu	Ala
	130					135					140				
Pro	Ile	Gly	Asp	Phe	Phe	Cys	Leu	Gly	His	Ser	Met	Ala	Ala	Asn	Phe
145				150						155				160	
Gln	Ser	Leu	Pro	Phe	Thr	Val	Ser	Val	Lys	Pro	Ser	Glu	Glu	Lys	Gln
			165						170					175	
Tyr	Gly	Gly	Ala	Ala	Ala	Phe	Asn	Cys	Tyr	Leu	Thr	Met	Pro	Phe	Asn
		180					185						190		
Lys	Arg	Ala	Arg	Ile	Glu	Ile	Glu	Asn	Gln	Asn	Asp	Glu	Ala	Tyr	Ile
	195						200				205				
Gln	Tyr	Phe	Tyr	Ile	Asp	Tyr	Glu	Leu	Tyr	Ala	Glu	Pro	Leu	Ser	
	210					215					220				

<210> 31563

<211> 107

<212> PRT

<213> A.fumigatus

<400> 31563

Tyr	Tyr	Ser	Ala	Ser	Tyr	Gly	Val	Met	Leu	Ile	Asp	Ser	Ser	Gln	Pro
1				5					10					15	
Gln	Arg	Pro	Pro	Arg	Gln	Ser	Arg	Pro	Arg	Asn	Val	Pro	Thr	Thr	Arg
		20						25					30		
Ala	His	Pro	Val	Arg	Thr	Phe	Ser	Ala	Leu	Cys	Ser	Tyr	Asn	Asn	Lys

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<210> 31564
<211> 287
<212> PRT
<213> A.fumigatus
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<400>	31564																
Ser 1	Asn	Asn	Gly	Glu 5	Tyr	Gly	Arg	Gln	Gln 10	Tyr	Lys	Gly	Glu	Ala 15	Ser		
Gly	Glu	Lys	Trp 20	Thr	Glu	Lys	Asp 25	Tyr	Pro	Ile	Ala	Asn 30	Ala	Ser	Arg		
Phe	His	Glu 35	Ala	Ala	Met	Met 40	Gln	Thr	His	Pro	Ser	Met 45	Val	Ala	Phe		
Xaa	Met 50	Gly	Ser	Asp	Phe	Trp 55	Pro	Asn	Asp	Arg	Ala 60	Thr	Lys	Ile	Tyr		
Leu 65	Asp	Ala	Leu	His 70	Arg	Met	Asp	Trp	Pro	Val 75	Pro	Ile	Ile	Ala 80	Ser		
Ala	Ser	Lys	Arg 85	Gly	Tyr	Pro	Lys	Val	Leu 90	Gly	Pro	Ser	Gly	Met 95	Lys		
Met	Asp	Gly	Pro 100	Tyr	Asp	Trp	Val	Pro 105	Pro	Asn	Tyr	Phe	Tyr 110	Gly	Asp		
Gln	Leu	Gly 115	Ala	Ala	Phe	Gly	Phe 120	Gly	Ser	Glu	Glu	Gly 125	Ala	Gly	Val		
Gly	Thr 130	Pro	Glu	Leu	Thr	Ser 135	Leu	Arg	Lys	Phe	Leu 140	Ser	Pro	Lys	Asp		
Leu 145	Asp	Ser	Leu	Trp 150	Lys	Asn	Pro	Asp	Gln	Asn 155	Gln	Tyr	His	Met	Ser 160		
Arg	Tyr	Asp	Ser 165	Ser	Phe	Tyr	Asn	Arg	Ala 170	Leu	Tyr	Asn	Lys	Ala 175	Leu		
Phe	Ala	Arg 180	Tyr	Gly	Ala	Pro	Gly	Ser 185	Leu	Glu	Asp	Tyr	Leu 190	Leu	Lys		
Val	Gln 195	Met	Met	Asp	Tyr	Glu	Ala 200	Thr	Arg	Ala	Glu	Phe 205	Glu	Ala	Phe		
Ser	Val 210	Arg	Gln	Asn	Ala	Ser	Arg 215	Pro	Ala	Thr	Gly	Val 220	Ile	Tyr	Trp		
Met 225	Leu	Asn	Ser	Ala 230	Trp	Pro	Asn	Leu	His	Trp 235	Gln	Leu	Phe	Glu	Tyr 240		
Tyr	Phe	Ser	Ser 245	Cys	Arg	Gly	His	Ile	Ser 250	Glu	Pro	Arg	Ser	Val 255	Glu		
Glu	Trp	Asn	Thr 260	Trp	Arg	Met	Thr	Asn 265	Glu	Glu	Arg	Ala	Val 270	Tyr	Leu		
Ile	Asn	Arg	Ser	Leu	Glu	Lys	Lys	Gly	Ala	Ser	His	Arg	Leu	Cys			

275

280

285

<210> 31565

<211> 91

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (83)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31565

Ile	Leu	Val	Asp	His	Ile	Ile	Val	Leu	Pro	Phe	Leu	Ser	Ser	Arg	Trp
1			5						10					15	
Leu	Tyr	Val	Leu	Val	Met	His	Tyr	Gly	Cys	Ala	Pro	Ser	Pro	His	Ile
		20						25					30		
Tyr	Glu	Ile	Val	Pro	Leu	Lys	Leu	Ile	Asp	Asn	Pro	Gly	Gln	Gly	Tyr
		35					40					45			
Gln	Thr	Gln	Asp	Thr	Glu	Leu	Thr	Ile	Val	Cys	Thr	Asn	Ser	Asp	Ser
	50					55					60				
Ser	Met	Ala	Ser	Thr	Leu	Thr	Val	Tyr	Phe	Gln	Ser	Pro	Trp	Arg	Ala
65					70					75				80	
Ala	Ser	Xaa	Pro	Arg	Pro	Ser	Ala	Phe	Cys	Arg					
				85					90						

<210> 31566

<211> 198

<212> PRT

<213> A.fumigatus

<400> 31566

Glu	Glu	Arg	Gly	Leu	Ala	Ser	Ser	Leu	Leu	Thr	Leu	Leu	Ile	Gly	Met
1			5					10					15		
Ala	Asn	Ala	Leu	Phe	Asn	Gln	Glu	Val	Thr	Ile	Asp	Thr	Thr	Pro	Thr
		20						25					30		
Ala	Ser	Lys	Arg	Val	Ile	Pro	Val	Lys	Ala	Val	Thr	Gln	Ile	Lys	Asp
		35					40					45			
Val	Ala	Phe	Leu	Arg	Leu	Val	Leu	Lys	Asn	Pro	Ser	Thr	Gly	Ala	Ile
	50					55					60				
Leu	Ser	Arg	Asn	Val	Tyr	Trp	Leu	Ser	Ala	Lys	Asn	Asp	Val	Leu	Asp
65				70					75				80		
Trp	Glu	Asn	Ser	Asp	Trp	Tyr	Tyr	Thr	Pro	Val	Thr	Lys	Tyr	Val	Asp
			85					90					95		
Tyr	Lys	Ala	Leu	Ile	Ser	Met	Pro	Thr	Ala	Ala	Val	Thr	Ala	Ser	Leu
		100					105						110		
Lys	Arg	Leu	Pro	Ala	Lys	Asp	Gly	Leu	Ser	Gln	Val	Gln	Val	Val	Leu
		115					120					125			
Lys	Asn	Pro	Ser	Ala	Thr	Pro	Ala	Val	Phe	Met	His	Leu	Ser	Ala	Ile
		130				135					140				
Asn	Met	Asp	Thr	Gln	Glu	Ile	Thr	Pro	Val	Phe	Trp	Ser	Asp	Asn	
145				150					155					160	
Tyr	Val	Thr	Val	Phe	Lys	Gly	Glu	Ser	Val	Thr	Leu	Thr	Ala	Ala	Phe
			165				170						175		
Pro	Gly	Gly	Arg	Ser	Asn	Trp	Glu	Val	Ile	Leu	Ser	Gly	Ala	Asn	Val
			180				185						190		

Lys Arg Thr Leu Leu Ser
195

<210> 31567

<211> 63

<212> PRT

<213> A.fumigatus

<400> 31567

Asn	Ile	Ser	Thr	Ala	Ser	Lys	Gly	Phe	Val	Val	Pro	Glu	Leu	Phe	Phe
1				5				10						15	
Ser	Phe	Ala	Ser	Phe	Pro	Thr	Leu	Ser	Ile	Leu	Ile	Phe	Pro	Ser	Leu
		20					25					30			
Ala	Ser	Pro	Leu	Gly	His	Leu	Pro	Asn	Gln	Phe	Asp	Ile	Ile	Leu	Leu
	35					40					45				
Thr	Leu	Ala	Trp	Leu	Trp	Lys	Ser	Thr	Tyr	Ser	Leu	Gln	Pro	Leu	
	50					55				60					

<210> 31568

<211> 186

<212> PRT

<213> A.fumigatus

<400> 31568

Arg	Gly	Ser	Leu	Thr	Arg	Ser	Met	Gln	Ser	Leu	Leu	Arg	Arg	Ile	Thr
1				5				10						15	
Thr	Val	Ser	Ser	Ser	Glu	Asp	Gly	Glu	Ile	Ala	Val	Leu	Glu	Ala	Thr
		20					25					30			
Lys	Asp	Thr	Gly	Leu	Gly	Ile	Val	Leu	Arg	Val	Pro	Leu	Leu	Tyr	Gly
	35					40					45				
Thr	Ala	Gln	Asn	Asn	Ser	Glu	Ser	Ala	Val	Asn	Ile	Leu	Ile	Asp	Ala
	50				55					60					
Ile	Trp	Lys	Ala	Gln	Asp	Glu	Asn	Ala	Gly	Val	Lys	Met	Asp	Asp	Trp
65				70					75					80	
Ala	Gln	Arg	Tyr	Pro	Thr	Asn	Thr	Glu	Asp	Val	Ala	Arg	Val	Cys	Arg
		85						90					95		
Asp	Ile	Val	Ile	Lys	Tyr	Val	Lys	Glu	Arg	Pro	Arg	Ile	His	Glu	Leu
	100							105					110		
Pro	Lys	Val	Leu	His	Phe	Ser	Ser	Glu	Asp	Arg	Met	Thr	Lys	Tyr	Glu
	115							120					125		
Met	Cys	Glu	Lys	Leu	Ala	Glu	Val	Leu	Gly	Leu	Ser	Leu	Ala	Gly	Met
	130					135					140				
Ile	Arg	Asn	Lys	Gln	Gly	Asn	Asp	Pro	Asn	Ala	Ser	Val	Gln	Arg	Pro
145				150						155				160	
Tyr	Asp	Thr	His	Leu	Ser	Thr	Lys	Val	Leu	Lys	Asp	Leu	Gly	Ile	Asp
		165						170					175		
Val	Gln	Thr	Thr	Asp	Phe	Val	Ala	Trp	Trp						
		180						185							

<210> 31569

<211> 145

<212> PRT

<213> A.fumigatus

<400> 31569

Arg Glu Gln Gly Asp Phe Pro His Pro Ile Ile Val Asp Glu Ser Ser

12205

1		5		10		15									
Trp	Thr	Leu	Glu	Thr	Thr	Ser	Gln	Pro	Pro	Gly	Lys	Glu	Val	Ser	Val
		20						25					30		
His	Leu	Asp	Lys	Val	Asn	Lys	Met	Glu	Trp	Trp	Ala	His	Val	Val	Thr
		35					40					45			
Thr	Ala	Pro	Lys	Ile	Asp	Val	Ser	Lys	Ile	Thr	Pro	Glu	Asn	Ser	Ser
		50				55					60				
Leu	Ser	Asp	Leu	Asp	Gly	Glu	Thr	Arg	Ala	Met	Val	Glu	Lys	Met	Met
65					70					75				80	
Tyr	Asp	Gln	Arg	Gln	Lys	Glu	Met	Gly	Gly	Leu	Thr	Ser	Asp	Glu	Gln
			85					90					95		
Arg	Lys	Met	Asp	Ile	Leu	Lys	Lys	Phe	Gln	Ala	Glu	His	Pro	Gly	Met
			100					105					110		
Leu	Ser	Ser	Arg	Leu	Gly	Val	Val	Tyr	Gly	Leu	Met	Ser	Cys	Arg	Asp
		115					120					125			
Gly	Leu	Leu	Glu	Cys	Lys	Asp	Trp	Leu	Arg	Trp	Cys	Gly	Ser	Thr	Ala
	130					135					140				
Cys															
145															

<210> 31570

<211> 146

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (106)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31570

Gln	Thr	Gln	Thr	Pro	Leu	Leu	Met	His	Thr	Ile	Ile	Ala	Val	Ala	Thr
1			5						10				15		
Ser	His	Leu	Arg	Tyr	Val	Val	Pro	Asp	Asn	Thr	Ala	Tyr	Lys	Met	Ala
		20					25					30			
Glu	Ala	Tyr	His	Trp	Gln	Gln	Ala	Ile	Ser	Gln	Tyr	Ser	Lys	Glu	Leu
		35				40					45				
Gly	Cys	Ala	Val	Gly	Pro	His	Asn	Met	Asp	Ala	Leu	Phe	Ser	Thr	Cys
	50				55				60						
Leu	Leu	Met	Thr	Val	His	Ala	Phe	Gln	Leu	Glu	Glu	Tyr	Asn	Pro	Arg
65				70					75				80		
Lys	Ser	Phe	Val	Phe	Ser	Asn	Asp	Pro	Gln	Thr	Leu	Ser	Trp	Leu	Thr
			85				90					95			
Leu	Gln	Gly	Gly	Leu	Pro	His	Leu	Leu	Xaa	Ala	Tyr	Gln	Asn	Leu	Ala
		100					105					110			
Val	His	Gln	His	Val	Val	Gly	Arg	Leu	His	Gly	Asp	Ser	Thr	Gly	Glu
		115					120				125				
Ser	Asn	Phe	Arg	Gly	Ser	Pro	Thr	Arg	Thr	Gly	Gly	Ser	Pro	Pro	Gly
	130					135					140				
Ala	Gly														
145															

<210> 31571

<211> 81

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (27)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31571

```

Thr Ser Ile Ala Ala Thr Val Ser Thr Gly Phe Phe Ala Glu Tyr Leu
1          5          10          15
Phe Ser Asp Asp Ser Ala Tyr Ala Thr Ala Xaa Leu Ala Ser Ser Asn
          20          25          30
Met Asn Arg Ala Ile Ile Cys Gly Ile Pro Ile Lys Gly Met Ala Cys
          35          40          45
Asn Glu Ser His Ala Pro Val Asp Met Cys Lys Ser Glu Tyr Leu Ser
          50          55          60
Ser Gly Gln Glu Ser Ala Thr Lys Ile Val Asn Ser Ile Ile Thr Gln
          65          70          75          80
Ser

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<210> 31572

<211> 124

<212> PRT

<213> A.fumigatus

<400> 31572

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Ser Leu Val Arg Val Cys Ala Met Leu Ser Ile Lys Arg Thr Leu Leu
1          5          10          15
Leu Leu Gly Ala Val Leu Pro Ala Val Phe Gly Ala Pro Val His Glu
          20          25          30
Thr Arg Arg Ala Ala Gln Lys Ile Pro Gly Lys Tyr Ile Val Thr Phe
          35          40          45
Lys Pro Gly Thr Asp Thr Ala Thr Ile Glu Ser His Thr Leu Trp Ala
          50          55          60
Thr Asp Leu His Lys Arg Asn Leu Glu Arg Arg Asp Thr Thr Ser Gly
          65          70          75          80
Glu Pro Pro Val Gly Ile Glu Lys Ser Tyr Gln Ile Lys Asp Phe Ala
          85          90          95
Ala Tyr Ala Gly Ser Phe Asp Asp Ala Pro Ile Asp Glu Ile Arg Lys
          100          105          110
Ser Ala Asp Val Ser Thr Leu Gln Asn Pro Ser Thr
          115          120

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<210> 31573

<211> 154

<212> PRT

<213> A.fumigatus

<400> 31573

```

Ala Leu Ser Ser Glu Lys Arg Tyr Ser Ala Lys Lys Pro Val Leu Thr
1          5          10          15
Val Ala Ala Ile Glu Val Tyr Phe Ala Arg Cys Leu Gly Phe Ser Leu
          20          25          30
Leu Thr Ile Ala Thr Leu Thr Ile Met Leu Thr Gly Ser Ile Pro Leu
          35          40          45
Ser Ser Ala Val Ser Glu Thr Val Ser Thr Glu Asp Ser Asp Pro Lys

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12207

50	55	60
Ala Pro Tyr Ala Val	Pro Thr Leu Val	Val Thr Ser Ile Tyr His Ala
65	70	75
Ile Ser Ala Phe Tyr	Ala Tyr Thr Trp Tyr Thr Thr Thr	Asp Gln Gly
85	90	95
Val Phe Ala Val Ala	Met Val Gly Tyr Phe Ala Val	Gly Ser Leu Gly
100	105	110
Leu Trp Cys Thr Leu	Phe Ala Ser Ser Gln Gly Lys	Ile Ser Arg Lys
115	120	125
Thr Gly Ala Asp Lys	Arg Thr Thr Gly Tyr Pro Phe	Gly Asn Arg Val
130	135	140
Ala Glu Arg Lys His	Val Glu Lys Ser Asp	
145	150	

<210> 31574
 <211> 107
 <212> PRT
 <213> A.fumigatus

<400> 31574
 Arg Ala Gly Asp Ile Ser Arg Glu Arg Asn Ser Ile Tyr Ala Leu Tyr
 1 5 10 15
 Arg Ala Ser Ile Pro Arg Leu Ser Ala Thr Ser Gln His Gly Cys Leu
 20 25 30
 Ser Asp Trp Arg Leu Pro Gly Leu Gln Ser Asn Ala Asn Val Ile Thr
 35 40 45
 Ile Cys Arg Pro Val Lys His Gly Ile Met Tyr Phe Phe Pro Ser Cys
 50 55 60
 Gln Ser His Ala Thr Lys Ser Arg Leu Gly Gly Pro Trp Leu Ala Ala
 65 70 75 80
 Ile Arg Leu Val Asn Ile Leu Val Ser Asn Ala Cys Arg Asn Ala Lys
 85 90 95
 Lys Lys Ser His Glu Val Ala Lys Tyr Pro Val
 100 105

<210> 31575
 <211> 168
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (5), (7)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31575
 Leu Arg Pro Phe Xaa Gly Xaa Thr Leu Ser Ala Asp Pro Ser Ser Ala
 1 5 10 15
 Arg Gly Glu Asp Leu Ala Lys Asp Pro Thr Ala Ser Arg Val Leu Gln
 20 25 30
 Gln Ala Leu Thr Ala Pro Thr Ser Thr Ser Gln Phe Arg Arg Gln Phe
 35 40 45
 Thr Thr Arg Phe Ser Gly His Leu Val Glu Leu Ala Leu Asp Ser Ser
 50 55 60
 Gly Ser His Val Val Asp Ala Leu Trp Pro Ala Thr Lys Asp Leu Phe
 65 70 75 80

12208

Phe Val Lys Glu Arg Met Ala Gln Glu Leu Leu Asn Glu Glu Leu Ser
85 90 95
Leu Arg Asp Ser Phe Val Gly Arg Ala Val Trp Arg Asn Trp Ser Met
100 105 110
Asp Leu Tyr Lys Arg Arg Arg Gly Glu Trp Ala Ser Lys Ala Lys Gly
115 120 125
Leu Asp Ser Ile Glu Asn Gly Gln Arg Glu Arg Pro Lys Ser Arg Ile
130 135 140
Asp Leu Ala Arg Ala Lys Phe Ala Ala Lys Ala Ala Glu Glu Ser Ser
145 150 155 160
Lys Ala Pro Val Ala Ala Lys Thr
165

<210> 31576

<211> 277

<212> PRT

<213> A.fumigatus

<400> 31576

Leu Leu Gly Ala Val Glu Asp Leu Leu Ile Pro Phe Ile Gln Ser Ala
1 5 10 15
Asp Glu Asn Pro Leu Gly Leu Ala Leu Gln Gln Asn Gly Val Asn Gly
20 25 30
Thr Asn Asp Thr Asn Gly Thr Asn Gly His Leu Lys Ser Pro Arg Thr
35 40 45
Ala Leu Val Asp Tyr Lys Asn Pro Glu Glu Leu Arg Asp Ile Leu Gln
50 55 60
Leu Ser Leu Pro Glu Lys Gly Thr Arg Gln Glu Gly Leu Ile Glu Val
65 70 75 80
Leu Arg Lys Val Leu Lys Tyr Ser Val Asn Thr Trp His Gln Gly Phe
85 90 95
Leu Asp Lys Leu Tyr Ala Ser Thr Asn Ala Pro Gly Val Ala Ser Glu
100 105 110
Leu Ile Leu Ala Ala Leu Asn Thr Asn Val His Val Tyr Gln Val Ser
115 120 125
Pro Ala Leu Thr Ile Ile Glu Lys Phe Thr Gly Glu Lys Leu Ala Ser
130 135 140
Leu Phe Gly Leu Asn Gly Pro Arg Ala Gly Gly Ile Ser Val Gln Gly
145 150 155 160
Gly Ser Ala Ser Asn Thr Thr Ser Ile Val Ile Ala Arg Asn Asn Leu
165 170 175
Tyr Pro Asp Thr Lys Lys Asn Gly Asn Gly Asp Tyr Lys Phe Val Val
180 185 190
Phe Thr Ser Asp His Gly His Tyr Ser Ile Glu Lys Ala Ala Gln Met
195 200 205
Leu Gly Leu Gly Ser Ser Ser Val Trp Val Val Pro Val Asp Lys Gln
210 215 220
Gly Arg Met Ile Pro Glu Glu Leu Glu Lys Leu Val Arg Lys Ala Leu
225 230 235 240
Gln Glu Asn Arg Thr Pro Phe Tyr Val Asn Ala Thr Ala Gly Thr Thr
245 250 255
Val Met Gly Ser Phe Asp Pro Phe Asn Glu Ile Ala Ala Ile Cys Gln
260 265 270
Lys Tyr Asn Leu Trp
275

12209

<210> 31577
<211> 139
<212> PRT
<213> A.fumigatus

<400> 31577
Gly Arg Glu Thr Ser Val Leu Ala Arg Leu Ser Ser Arg Ile Val Pro
1 5 10 15
Arg Ala Ser Gly Leu Ser Leu Ala Ile Arg Phe Tyr Gln Pro Leu Leu
20 25 30
Tyr Tyr Gln Ala Met Ala Asp Leu Phe Gly Glu Asn Phe Leu Ser Ile
35 40 45
Thr Ser Ser Ser Ser Gln Leu Arg Pro Thr Thr Thr Asp His Asp Ala
50 55 60
Pro Pro Ala Ser Thr Gly His Gly Asp Ala Asp Asn Leu His Leu Pro
65 70 75 80
Arg Thr Lys Arg Ile Ala Cys Val Val Cys Arg Arg Arg Lys Leu Arg
85 90 95
Cys Asp Gly Lys Arg Pro Ser Cys Gly Thr Cys Ser Arg Leu Gly His
100 105 110
Glu Cys Ala Tyr Asp Glu Val Arg Lys Lys Ser Gly Pro Lys Arg Gly
115 120 125
Tyr Val Lys Gln Leu Glu Ala Arg Leu Gly Thr
130 135

<210> 31578
<211> 92
<212> PRT
<213> A.fumigatus

<400> 31578
Tyr Tyr His Gly Gly Arg Asp Gly Met His Val Ser Met Leu Cys Lys
1 5 10 15
Asn Phe Arg Leu Ile Pro Ser Gln Ala Leu Asn Ile Leu Phe Ala Leu
20 25 30
Cys Gly Ile Thr Gly Ser Leu Tyr Gly Met Gly Arg Lys Leu Glu His
35 40 45
Val Glu Gln Phe Ser Thr Ala Leu Phe Val Cys Leu Leu Lys Pro Pro
50 55 60
Ser Leu Ser Pro Val Arg His Ser Val Tyr Ile Ala Tyr Ala Arg Val
65 70 75 80
Phe His Ser Gly Gly Gly Ser Val Arg Gln Ala Thr
85 90

<210> 31579
<211> 124
<212> PRT
<213> A.fumigatus

<400> 31579
Pro Met Leu Arg Ala Lys Leu Val Asp Asp Pro Gln Ile Lys Tyr Ala
1 5 10 15
Ser Leu His Asn Pro Leu Pro Thr Gln Leu His Ala Tyr Val Trp Pro
20 25 30
Phe Leu Ile Ile Trp Pro Ala Phe Phe Ala Val Tyr Leu Ser Pro Glu
35 40 45

12210

Arg Tyr Asp Thr Tyr Ile Gln Gly Gln Glu Trp Thr Phe Val Trp Ser
 50 55 60
 Gly Ser Ile Ile Thr Ala Gln Ser Leu Leu Trp Leu Met Thr Lys Trp
 65 70 75 80
 Asn Ile Asn Ile Gln Thr Leu Phe Thr Ala Asn Lys Gly Arg Ser Leu
 85 90 95
 Asn Ser Ala Gln Leu Asn Lys Ile Ile Pro Gly Cys Asn Ala Cys Ser
 100 105 110
 Ala Glu Asn Leu Pro Leu His Cys Glu Lys Ile Gly
 115 120

<210> 31580

<211> 67

<212> PRT

<213> A.fumigatus

<400> 31580

Thr Val Phe Glu Ile Lys Tyr Lys Gly Met Gly Ser Ala Tyr Met Gln
 1 5 10 15
 Ile Tyr Leu Met His Leu Ala Gln His Glu Pro Cys Ala Thr Leu Tyr
 20 25 30
 Leu Ala Pro Asp Ser Leu Leu Arg Thr Asp Gly Trp Arg Ser Asp Asn
 35 40 45
 Phe Pro Tyr Gln Thr Met Leu Thr Ile Thr Lys Ala Ser Ala Ser Leu
 50 55 60
 Pro Thr Ser
 65

<210> 31581

<211> 327

<212> PRT

<213> A.fumigatus

<400> 31581

Asn Cys Ala Asn Ser Cys Ser Asn Gly Asn Leu Arg Ala Leu Pro Ser
 1 5 10 15
 Gly Leu Leu Arg Pro Leu Gln Tyr Leu Thr Lys Leu Pro Ser Val Arg
 20 25 30
 Glu Pro Pro Ile Ser Glu Glu Gly Tyr Ser Ser Leu Lys Pro Phe Leu
 35 40 45
 Arg Leu Phe Leu Ala Gly Asn Ala Leu Thr Ala Val Ser Gly Glu Ile
 50 55 60
 Phe Glu Leu Asp Ser Leu Arg Val Leu Ser Leu Arg Asn Asn Lys Leu
 65 70 75 80
 Thr Glu Ile Pro Pro Ala Ile Arg Lys Leu Thr Met Leu Gln Glu Ile
 85 90 95
 Asn Leu Ala Val Asn Arg Leu Arg Cys Leu Pro Trp Glu Leu Leu Trp
 100 105 110
 Leu Ile Arg Lys Gly Asp Leu Lys His Leu Met Val Arg Pro Asn Pro
 115 120 125
 Leu Leu Gln Thr Asn Asp Val Glu Val Thr Arg Trp Tyr Thr Pro Asp
 130 135 140
 Gly Ser Asp Ala Ala Ser Pro Glu Glu Ala Leu Lys Ala Cys His Tyr
 145 150 155 160
 Glu Gly Pro Pro Pro Glu Glu Ala Trp Ala Pro Ile Gln Val Ala Ile
 165 170 175

12211

Ser Pro Ile Arg Arg Phe Asn Met Glu Gly Ile Pro Ile Thr Asp Gly
 180 185 190
 Gln Ser Gly Ala Leu Pro Leu Arg Ser Ser Asp Asp Thr Pro Ser His
 195 200 205
 Val Pro Ser Leu Arg Glu Val Ser Leu Leu Ala Phe Ser Lys Ser Ala
 210 215 220
 Tyr Cys Asp Gln Ile Ser Glu Ser Glu Met Ile Gly Tyr Pro Glu Leu
 225 230 235 240
 Met Val Arg Leu Leu Arg Gln Ala Lys Gly Val Arg Asn Ala Gly Gly
 245 250 255
 Arg Ser Cys Ser Ile Cys His Arg Ser Phe Val Ile Pro Arg Thr Glu
 260 265 270
 Trp Ile Glu Trp Trp Asp Cys Ser Thr Tyr Glu Asn Gly Leu Lys Arg
 275 280 285
 Pro Arg Cys Pro Gly Glu Gln Leu Arg Pro Leu Pro Phe Arg Arg Phe
 290 295 300
 Gly Cys Ser Trp Ala Cys Val Pro Glu Ala Glu Glu Ser Met Leu Gln
 305 310 315 320
 Ala Glu Thr Gly Gln Gln Gly
 325

<210> 31582
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 31582
 Arg Gly Arg Ser Lys Pro Asp Gly Ser Ala Leu Arg Leu Pro Leu Leu
 1 5 10 15
 Gln Glu Leu Ala Gln Phe His Ile Thr Gln Thr Glu Ile Phe Ser Pro
 20 25 30
 Gln Val Asp Ala Ile Leu Pro Phe Lys Thr Val Ile Asp Asn Arg
 35 40 45
 Pro Ser Glu Leu Met Phe Pro Arg Leu Leu His Leu Pro Gly Thr Pro
 50 55 60
 Arg Leu
 65

<210> 31583
 <211> 174
 <212> PRT
 <213> A.fumigatus

<400> 31583
 Pro Phe Leu Thr Leu Val Phe Ile Thr Ser Ile Cys Phe Thr Ser Ala
 1 5 10 15
 Lys Val Gly Ala Asp Phe Asp His Trp Lys Ile Gly Leu Glu His Gly
 20 25 30
 Arg Ile Leu Ser Gln Gln Ile Gln Asp Gln Ile Lys Val Tyr Glu Ala
 35 40 45
 Met Phe Leu Glu Ala Ser Lys Met Ser Trp Asp Ala Val Arg Asn Leu
 50 55 60
 Ala Glu Glu Phe Arg Glu Ser Leu Glu Lys Lys Leu Pro Asp Val Tyr
 65 70 75 80
 Ala Glu Met Gln Gly Ile Ala Glu Gly Ala Gly Leu Asp Leu Leu Asp
 85 90 95

12212

Ile Val Ala Leu Asn Cys Arg Ser Glu Ile Ala Met Gly Asn Phe Ser
 100 105 110
 Asp Gly Cys Thr Ser Leu Ser Trp Lys Lys His Asp Asn Gly Arg Val
 115 120 125
 Leu Ala Gln Asn Trp Asp Trp Ala Pro Ala Ala Gly Lys Asn Ile Ala
 130 135 140
 Ile Met Ser Val Glu Gln Pro Gly Lys Pro Lys Val Phe Met Val Thr
 145 150 155 160
 Glu Val Ser Leu Leu Ser Gln Phe Val Leu Asp Asn Thr Asp
 165 170

<210> 31584

<211> 237

<212> PRT

<213> A.fumigatus

<400> 31584

Ser Thr Leu Ala Val Cys Ile Gly Gln Tyr Gly Leu Thr Leu Ile Ile
 1 5 10 15
 Thr Thr Gln Ala Gly Ile Val Gly Lys Ile Gly Phe Asn Ser Ala Gly
 20 25 30
 Val Gly Val Cys Leu Asn Ala Ile Arg Ala Lys Pro Cys Ile Ser Ser
 35 40 45
 Lys Ile Pro Ile His Val Ala Leu Arg Leu Cys Leu Glu Ser Pro Ser
 50 55 60
 Ala Gln Met Ala Val Glu Arg Val Ser Glu Leu Gly Gly Ile Ala Cys
 65 70 75 80
 Ser Val His Ile Leu Leu Ala Asp Ser Thr Thr Ala Leu Gly Leu Glu
 85 90 95
 Leu Ser Pro Leu Gly Asp Val Tyr Leu Lys Glu Asp Val Leu Gly Thr
 100 105 110
 Val Thr His Thr Asn His Phe Ile Glu Asn Arg Asn Val Ile Glu Pro
 115 120 125
 Pro Trp Leu Ser Gly Ser Pro Ile Arg Leu Asn Arg Val Arg Gln Leu
 130 135 140
 Leu Arg Glu Leu Ile Ser Gly Gly Ile Ala Gly Ser Gln Ile Thr Pro
 145 150 155 160
 Gly Leu Leu Arg Asp Lys Ile Phe Ser Asp Thr Ser Asn Ala Pro Gln
 165 170 175
 Ala Ile Cys Cys Ser Glu Asp Pro Ala Arg Gly Pro Ala Val Arg Ser
 180 185 190
 Thr Thr Ile Phe Asn Ile Ile Met Asn Leu Glu Gln Asp Asn Val Ser
 195 200 205
 Ala Glu Leu Val Val Gly Arg Pro Gly Ser Gly Glu Glu Thr Ala Val
 210 215 220
 Ile Arg Met Pro Trp Ala Tyr Arg Pro Arg Ile Val Val
 225 230 235

<210> 31585

<211> 73

<212> PRT

<213> A.fumigatus

<400> 31585

Phe Leu Ser Pro Ser Gly Arg Ile Asp Pro Ser Thr Ser Val Ser Tyr
 1 5 10 15

12213

Thr Leu Asn Gln Asn Ile Thr Phe Pro Ser Thr Met Ala Ser Lys Glu
 20 25 30
 Gly Ala Ala Gly Pro Ala Phe Gly Pro Val Leu Ala Ala Val Ala Thr
 35 40 45
 Met Gln Gly Asn Val Ser Arg Ser Glu Lys Thr Gln Ala His Glu Phe
 50 55 60
 Leu Glu Lys Phe Gln Lys Ser Val Ser
 65 70

<210> 31586
 <211> 140
 <212> PRT
 <213> A.fumigatus

<400> 31586
 Gln Arg His Cys Arg Ile Ala Pro Thr Gln Phe Gln Cys Gln Leu Arg
 1 5 10 15
 Ser Phe Asn Asn Phe Pro Arg His Val Ser Ile Met Ser Gly Arg Ala
 20 25 30
 Gly Gly Gly Gly Ala Arg Lys Thr Leu Leu Ala Pro Ile His Phe Ile
 35 40 45
 Phe Lys Leu Leu Gln Gln Arg Thr Thr Val Ser Ile Trp Leu Tyr Glu
 50 55 60
 Gln Leu Ala Phe Arg Ile Glu Gly Lys Ile Arg Val Pro Phe Ile Pro
 65 70 75 80
 Phe Leu Ala Thr Arg Tyr Gln Ala Asn Asn Met Arg Gln Gly Phe Asp
 85 90 95
 Glu Phe Met Asn Leu Val Ile Asp Asp Ala Val Glu Val Lys Met Ala
 100 105 110
 Thr Lys Thr Asp Glu Glu Lys Arg Arg Pro Leu Gly Met Ile Tyr Tyr
 115 120 125
 His Cys Ile Phe Asp Ile Ala Ser Glu Cys Tyr Tyr
 130 135 140

<210> 31587
 <211> 134
 <212> PRT
 <213> A.fumigatus

<400> 31587
 Leu Asn Pro Thr Ala Thr Ile Ala Asp Ser Val Gly Pro Phe Glu Leu
 1 5 10 15
 Ala Lys Asn Val Val Gln Thr Ser Val Leu Val Ala His Arg Ser Gln
 20 25 30
 Ala Ser Pro Asp Ala Val Arg Asp Pro Ser Leu Arg Thr Arg Pro Arg
 35 40 45
 Leu Gly Thr Ile Glu Ala Ile Arg Gln Ile Val Arg Arg Tyr Gly Phe
 50 55 60
 Arg Gly Leu Tyr Thr Gly Phe His Leu His Ala Met Arg Asp Thr Ile
 65 70 75 80
 Gly Ser Gly Leu Tyr Phe Ser Val Tyr Glu Thr Val Lys Gln Leu Ala
 85 90 95
 Ala Lys Glu Leu Gly Pro Asp Lys Ser Pro Phe Gly Gly Pro Met Ile
 100 105 110
 Ala Gly Ala Ile Cys Ser Thr Val Pro Trp Phe Cys Val Arg His Phe
 115 120 125

Phe Ser Asn Glu Thr Val
130

<210> 31588
<211> 91
<212> PRT
<213> A.fumigatus

<400> 31588
Val Ala Asn Leu Cys Gln Thr Tyr Pro Leu Asp Thr Arg Lys Thr Arg
1 5 10 15
Ala Gln Ser Val Leu Leu Gly Lys Ser Lys Glu Val Gly Glu Ala Ser
20 25 30
Ala Ala Val Ser Lys Ser Ser Met Tyr Lys Gly Leu Ser Val Ile Leu
35 40 45
Ile Arg Thr Gly Val Asn Asn Met Ile Leu Leu Ser Met Phe Glu Tyr
50 55 60
Ile Lys Met Arg Ile Asn Gln Leu Glu Gly Leu Ala Gly Ile Ala Trp
65 70 75 80
Leu Ile Phe Leu Ala Asn Asn Gly Ala Gly Leu
85 90

<210> 31589
<211> 96
<212> PRT
<213> A.fumigatus

<400> 31589
Val Asp Ile Ala Leu Glu Phe Tyr Ala Ile Asp Gly Ser Asn Ile Gln
1 5 10 15
Asn Thr Gly Ala Leu Pro Pro Leu Ala Ser Val Thr Ala Val Arg Val
20 25 30
Val Asn Phe Ser Thr Tyr Asn Val Ala Lys His Arg Ile Ser Glu Phe
35 40 45
Val Glu Arg Ile Thr Gly Glu Ser Pro Leu Ala Thr Tyr Asn Thr Pro
50 55 60
Gly Ser Ser Pro Thr Val Ser Thr Leu Phe Thr Phe Thr Thr Ala Gly
65 70 75 80
Phe Ile Ala Gly Leu Ile Thr Ser Pro Leu Ala Cys Lys Phe Arg Asn
85 90 95

<210> 31590
<211> 376
<212> PRT
<213> A.fumigatus

<400> 31590
Gly Thr Ser Leu Leu Tyr Tyr Leu Phe Lys Gly Gln Ala Ser Leu Gln
1 5 10 15
Ala Asn Leu Arg Gln Leu Lys Met Thr Ser Ser Asn Met Ser Ile Arg
20 25 30
Ser Leu Ala Pro Pro Thr Ala Val Thr Ser Ser Gln Val Gln Val Phe
35 40 45
Pro Thr Ala Trp Pro Lys Pro Ser Pro Thr Ser Thr Ala Arg Thr Pro
50 55 60
Thr Ala Leu Arg Gln Met Ala Ala Val Ser Leu Val Ser Arg Ala Cys

12215

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65              70              75              80
Thr Thr Pro Ala Arg Gly Val Ile Pro Arg Trp Ala Ile Ser Pro Ser
85              90              95
Ser Arg Ser Thr Val Arg Thr Met Cys Trp Ile Thr Ala Val Phe Arg
100            105            110
Lys Leu Arg Gly Ala Cys Thr Met Ser Thr Ser Arg Leu Leu Arg Gly
115            120            125
Pro Gly Tyr Phe Ala Leu Ala Leu Glu Asn Gly Ile Gln Ala Lys Met
130            135            140
Thr Val Ser Glu His Ala Ala Leu Tyr Arg Phe Thr Phe Pro Pro Ser
145            150            155
Thr Ala Gln Asp Gly Ser Glu Leu Ser Pro Leu Ile Leu Val Asp Leu
165            170            175
Thr Asn Ala Trp Asp Ser Arg Gln Asn Ala Ser Ile Met Val Asp Ala
180            185            190
Glu Asn Gly Arg Ile Thr Ala Asn Gly Thr Phe Leu Pro Ser Phe Gly
195            200            205
Ala Gly Ser Tyr Val Ser Tyr Phe Cys Ala Asp Phe Gly Ser Gly Ala
210            215            220
Val Lys Asp Ser Gly Ile Trp Val Asn Asp Arg Ala Gly Thr Glu Pro
225            230            235
Gln Glu Leu Phe Val Thr Arg Gly Phe Asn Leu Phe Tyr Leu Gln Ala
245            250            255
Gly Gly Phe Met Arg Phe Lys Arg Pro Glu Asp Gly Thr Val Thr Val
260            265            270
Arg Val Gly Val Ser Phe Ile Ser Ser Glu Lys Ala Cys Lys Asn Ala
275            280            285
Glu Ile Glu Ile Pro His Pro Glu Asp Asp Phe Val Thr Leu Arg Gln
290            295            300
Arg Ala Glu Ser Ala Trp Arg Glu Lys Leu Ser Pro Val Ser Val Gln
305            310            315
Thr Gly Gly Val Thr Asp Asp Phe Leu Glu Ser Phe Trp Ser Gly Val
325            330            335
Tyr Arg Thr Met Leu Ser Pro Gln Asp Leu Thr Gly Glu Asn Pro Leu
340            345            350
Trp Arg Ser Asp Glu Pro Tyr Tyr Asp Ser Phe Tyr Trp Tyr Val Ser
355            360            365
Arg Asp Asp Met Val Phe His Arg
370            375

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<210> 31591

<211> 133

<212> PRT

<213> A.fumigatus

<400> 31591

```

Leu Met Ile Gly Ser Ile Trp Asp Ser Phe Arg Ala Gln His Pro Phe
1      5      10      15
Leu Thr Ile Ile Asp Pro Val Ser Gln Ser Arg Met Val Arg Ser Leu
20      25      30
Leu Asp Thr Tyr Arg His Glu Gly Trp Leu Pro Asp Cys Arg Met Ser
35      40      45
Leu Cys Lys Gly Trp Thr Gln Gly Gly Ser Asn Ala Asp Val Val Leu
50      55      60
Ala Asp Ala Phe Val Lys Asn Leu Thr Gly Ile Asp Trp Asp Leu Ala
65      70      75      80

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12216

Tyr Glu Ala Met Val Asn Asp Ala Glu Asn Glu Pro Leu Glu Trp Ser
 85 90 95
 Tyr Glu Gly Arg Gly Gly Leu Gln Ser Trp Lys Arg Leu Asn Tyr Ile
 100 105 110
 Pro Tyr Leu Asp Phe Asp Tyr Leu Gly Phe Gly Thr Asn Ser Arg Ser
 115 120 125
 Ile Ser Arg Thr Leu
 130

<210> 31592

<211> 244

<212> PRT

<213> A.fumigatus

<400> 31592

Tyr Ser Tyr Asn Asp Phe Ser Leu Ala Thr Val Gly Arg Gly Leu Arg
 1 5 10 15
 Lys Arg Asp Tyr Thr Lys Tyr Leu Ser Arg Ala Asn Asn Trp Gln Asn
 20 25 30
 Leu Tyr Lys Pro Asp Gln Gln Ser Leu Ile Asn Gly Thr Asp Thr Gly
 35 40 45
 Phe Val Gly Phe Phe Gln Pro Lys Tyr Leu Asn Gly Thr Trp Gly Tyr
 50 55 60
 Gln Asp Pro Ile Ala Cys Ser Ala Leu Ala Ser Trp Cys Ser Leu Thr
 65 70 75 80
 Ser Asn Pro Ser Glu Thr Phe Glu Ser Ser Val Trp Glu Tyr Gln Leu
 85 90 95
 Tyr Val Thr Pro Ser Gln Thr Glu Ala Thr Val Asn Lys Glu Pro Gln
 100 105 110
 Leu Arg Ser Ser Arg His Gly His Pro Asn Pro Pro Pro Arg Arg Ala
 115 120 125
 Gly His Leu His Leu Pro Pro Arg Leu Leu Pro His Leu Arg Pro Ser
 130 135 140
 Arg His Arg Gln Arg Ala Cys Leu Pro Asn Arg Leu Pro Ile Pro Leu
 145 150 155 160
 Arg Arg Pro Ala Gly Pro Leu Arg Arg Ala Cys Ser His Leu His Pro
 165 170 175
 Leu Arg Leu Gln Arg Leu His Ser Arg Pro Pro Arg Gln Arg Arg Leu
 180 185 190
 Gly Arg His Gly Arg Leu His Arg Leu His Asp Asp Gly Pro Leu Pro
 195 200 205
 Gln Pro Arg Ala Glu Arg Val Pro Tyr His Pro Pro Val Leu Arg Ser
 210 215 220
 Arg Glu Tyr His Ser Pro Arg Asp Lys Gln Asp Arg Asn Asp Pro Glu
 225 230 235 240
 Cys Gln Phe Arg

<210> 31593

<211> 229

<212> PRT

<213> A.fumigatus

<400> 31593

His Pro Ile Pro Pro Arg Pro Leu Ser Pro Ala Ser Gly Asn Thr Asn
 1 5 10 15

Cys Thr Leu Pro Pro Pro Arg Pro Lys Pro Pro Leu Thr Arg Asn Arg
 20 25 30
 Ser Tyr Val Pro His Asp Met Ala Thr Leu Ile His Leu Leu Gly Gly
 35 40 45
 Pro Asp Thr Phe Ile Ser Arg Leu Asp Phe Phe His Thr Ser Gly Leu
 50 55 60
 Ala Asp Ile Gly Asn Glu Pro Val Phe Leu Thr Val Phe Gln Tyr His
 65 70 75 80
 Tyr Ala Gly Arg Pro Ala Leu Ser Ala Ala Arg Ala His Thr Tyr Ile
 85 90 95
 Pro Ser Ala Phe Asn Ala Ser Thr Ala Gly Leu Pro Gly Asn Asp Asp
 100 105 110
 Ser Gly Ala Met Gly Ala Phe Thr Val Phe Thr Met Met Gly Leu Phe
 115 120 125
 Pro Asn Pro Gly Gln Asn Val Tyr Leu Ile Ile Pro Pro Phe Phe Glu
 130 135 140
 Ala Val Ser Ile Thr His Pro Val Thr Asn Lys Thr Ala Thr Ile Arg
 145 150 155 160
 Asn Val Asn Phe Asp Ser Ser Tyr Arg Arg Ile Tyr Ile Gln Ser Ala
 165 170 175
 Arg Leu Asn Gly Glu Pro Tyr Thr Lys Asn Trp Ile Gly His Glu Phe
 180 185 190
 Phe Thr Glu Gly Trp Thr Leu Glu Leu Thr Leu Gly Glu Glu Glu Ser
 195 200 205
 Asp Trp Gly Thr Gly Val Gly Asp Leu Pro Pro Ser Leu Gly Glu Ser
 210 215 220
 Met His Leu Trp Thr
 225

<210> 31594

<211> 413

<212> PRT

<213> A.fumigatus

<400> 31594

Leu Ser Ala Arg Arg Ala Tyr Asp Val Val Val Ile Gly Gly Gly His
 1 5 10 15
 Ala Gly Ser Glu Ala Ser Ala Ala Ala Arg Ser Gly Ala Arg Thr
 20 25 30
 Ala Leu Val Thr Pro Ser Leu Ser Asn Ile Gly Val Cys Ser Cys Asn
 35 40 45
 Pro Ser Phe Gly Gly Ile Gly Lys Gly Thr Met Ile Arg Glu Ile Asp
 50 55 60
 Ala Met Asp Gly Val Ala Gly Arg Ile Ile Asp Lys Ala Gly Ile Met
 65 70 75 80
 Phe Arg Ile Leu Asn Arg Ser Lys Gly Pro Ala Val Trp Gly Pro Arg
 85 90 95
 Ala Gln Ile Asp Arg Asp Leu Tyr Lys Arg Tyr Met Gln Glu Glu Leu
 100 105 110
 Leu Ala Thr Glu Gly Leu Ser Ile Val Glu Gly Lys Val Ala Asp Ile
 115 120 125
 Val Val Ser Lys Glu Gly Val Glu Asn Ile Pro Gly Ser Gln Gly Lys
 130 135 140
 Ile Val Gly Val Arg Leu Glu Ser Gly Glu Val Ile Pro Thr Gly Arg
 145 150 155 160
 Val Val Ile Thr Thr Gly Thr Phe Leu Gly Gly Glu Ile His Ile Gly

12218

165 170 175
 Leu Glu Ala Tyr Pro Ser Gly Arg Met Gly Glu Ala Ala Thr Phe Gly
 180 185 190
 Leu Ser Lys Ser Leu Arg Glu Ala Gly Phe Gln Leu Gly Arg Leu Lys
 195 200 205
 Thr Gly Thr Pro Pro Arg Leu Asp Met Lys Thr Ile Asp Phe Ala Pro
 210 215 220
 Leu Glu Val Gln Arg Gly Asp Ser Pro Pro Gln Pro Phe Ser Tyr Leu
 225 230 235 240
 Asn Thr Thr Val Asp Val Gly Asp Glu Gly Gln Leu Thr Cys Trp Met
 245 250 255
 Thr His Thr Asn Glu Ala Ser His Glu Ile Val Arg Ala Asn Leu Asp
 260 265 270
 Lys Ser Ile His Ile Arg Glu Thr Val Arg Gly Pro Arg Tyr Cys Pro
 275 280 285
 Ser Leu Glu Ser Lys Ile Ile Arg Phe Thr Asp Lys Lys Gln His Gln
 290 295 300
 Ile Trp Leu Glu Pro Glu Gly Cys Ala Pro Asn Glu Val Ile Tyr Pro
 305 310 315 320
 Asn Gly Ile Ser Met Thr Ile Pro Ala Asp Ala Gln Tyr Ala Leu Leu
 325 330 335
 Arg Thr Val Arg Gly Leu Glu Asn Val Arg Met Leu Gln Ser Gly Tyr
 340 345 350
 Gly Val Glu Tyr Asp Tyr Ile Asp Pro Arg Asn Leu Arg Pro Thr Leu
 355 360 365
 Glu Thr Lys Leu Ile Ser Gly Leu Leu Leu Ala Gly His Ile Tyr Gly
 370 375 380
 Thr Pro Gly Tyr Glu Glu Ser Ala Gly Thr Glu Ile Ile Ala Gly Thr
 385 390 395 400
 Lys Pro Pro Ser Val Leu Pro Pro Lys Lys Gly Gly Ala
 405 410

<210> 31595
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 31595
 Phe Ala Arg Ser Leu Gly Ala Gly Leu Phe Phe His Ala Pro Gln Ala
 1 5 10 15
 Phe Thr Ser Val Phe Tyr Leu Leu Tyr Leu Arg Ala Asp Arg Ile Lys
 20 25 30
 Glu Tyr Ser Val Lys Phe Ile Asp Leu Leu Pro Pro Ile Arg Thr Gln
 35 40 45
 Asn Ile Leu Cys Trp Arg Ser Cys Arg Glu Glu Ala Ser His His Glu
 50 55 60
 Gly Leu Leu Val
 65

<210> 31596
 <211> 97
 <212> PRT
 <213> A.fumigatus

<400> 31596
 Ala Arg Gly Pro His Thr Ala Gly Pro Leu Asp Arg Leu Arg Met Arg

12219

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1           5           10           15
Asn Met Ile Pro Ala Leu Ser Met Ile Arg Pro Ala Thr Pro Ser Met
      20           25           30
Ala Ser Ile Ser Arg Ile Ile Val Pro Phe Pro Ile Pro Pro Lys Leu
      35           40           45
Gly Leu His Glu Gln Thr Pro Met Phe Glu Ser Glu Gly Val Thr Asn
      50           55           60
Ala Val Arg Ala Pro Asp Arg Ala Ala Ala Glu Ala Ser Glu Pro
      65           70           75           80
Ala Trp Pro Pro Pro Ile Thr Thr Thr Ser Tyr Ala Leu Arg Ala Glu
      85           90           95
Ser

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<210> 31597
 <211> 135
 <212> PRT
 <213> A.fumigatus

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<400> 31597
Gly Asp Gln Arg Glu Pro His Asp Ser Gly Arg Pro Val Thr Val Asp
1           5           10           15
Tyr Leu Ala Ser Ile Gly Val Gln Tyr Tyr His Phe Pro Ser Leu Glu
      20           25           30
Ser Val Asn Glu Leu Ala Lys Glu Arg Gly Tyr Lys Asn Arg Asp Glu
      35           40           45
Ile Val Val Ser Pro Gln Ala Met Gly Asp Val Tyr Glu Glu Lys Val
      50           55           60
Lys Met Phe Phe Asn Glu His Leu His Glu Asp Glu Glu Ile Arg Tyr
      65           70           75           80
Ile Arg Asp Gly Glu Gly Tyr Phe Asp Val Arg Gly Gln Glu Asp Glu
      85           90           95
Trp Val Arg Ile Lys Leu Ala Lys Asp Asp Leu Ile Ile Leu Pro Ala
      100           105           110
Gly Ile Tyr His Arg Phe Thr Thr Asp Asp Lys Asn Val Gly Phe His
      115           120           125
Glu Leu Ile Gln Ser Thr Leu
      130           135

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<210> 31598
 <211> 77
 <212> PRT
 <213> A.fumigatus

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<400> 31598
Glu Gly Arg Cys Glu Ile Thr Asp His Leu Phe Ser Leu Val Arg Lys
1           5           10           15
Pro Asn Ile Cys Gly Asp Ala Val Arg Met Gly Gln Asp Gly Thr Thr
      20           25           30
Leu Ser Glu Gln Lys Tyr His His Glu Asp Leu Val Pro Leu Pro
      35           40           45
Thr Ser Ser Thr Leu Phe Met Gln Pro Thr Tyr Cys Thr Trp Asp Asp
      50           55           60
Asn Leu Tyr Gly Ile His Ser Val Asp Phe Val Ser Leu
      65           70           75

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<210> 31599
 <211> 71
 <212> PRT
 <213> A.fumigatus

<400> 31599
 Pro Arg Thr Pro Leu Gln Cys His Cys Gln Glu Met Lys Arg Leu Leu
 1 5 10 15
 Pro Val Tyr Leu Pro Asn Arg Leu Pro Ile Ala Pro Tyr Gln Arg Thr
 20 25 30
 Ser Lys Thr Cys Leu Ile Ser Arg His Arg Leu Phe Leu Val Gly Ser
 35 40 45
 Lys Arg Pro Asn Asn Ile His Tyr Ser Gly Ser Val Gly Glu Asn Ser
 50 55 60
 Arg Asp Ser Lys Ala Lys Asp
 65 70

<210> 31600
 <211> 189
 <212> PRT
 <213> A.fumigatus

<400> 31600
 Leu Leu Tyr Val Gln Ser Lys Pro Pro Ser Gln Ser Glu Ser Val Glu
 1 5 10 15
 Ser Pro Glu Lys Gly Arg Asn Arg Trp Ile Gln Ala Asp Cys Cys Ala
 20 25 30
 Gln Glu Met Ile Ala Asp Leu Lys Ala Asp Ser Ala Arg Trp Glu Ala
 35 40 45
 Asp Val Met Arg Arg Ala Asp Gln Gly Tyr Pro Arg Gly Ser Tyr Ile
 50 55 60
 His Asp Tyr Asn Val Arg Gln Ala Pro Asn Val Val Pro Ala Pro Tyr
 65 70 75 80
 Ala Ala Ser Ser Ile His Glu Val Arg His Gln Gly Ser Pro Ser Pro
 85 90 95
 Pro Gln Pro Pro Ser Gln Pro Tyr Val Asp Pro Tyr Thr Gln Ala Pro
 100 105 110
 Tyr Gly Ala Thr Gln Ser Pro Pro Tyr Thr Ala Pro Ser Ser Tyr Pro
 115 120 125
 Ser Ser His Ser Pro Phe Ala Ala Gly Gln Asn Pro Tyr Pro Pro Gln
 130 135 140
 Val Pro Tyr Ser Ala Pro Gly Gln Pro Pro Val Ser Ala Asp Met His
 145 150 155 160
 Pro Ser Tyr Thr Tyr Thr Asn Asn Thr Gly Tyr Pro Tyr Glu Asn Gly
 165 170 175
 Arg Ser Asn Ala Pro Arg Tyr Thr Gly Pro Gly Tyr Asp
 180 185

<210> 31601
 <211> 135
 <212> PRT
 <213> A.fumigatus

<400> 31601
 Tyr Ser Ser Leu Gly Leu Arg Leu Thr Ile Ser Leu His Thr Gln Leu
 1 5 10 15

12221

Val Ala Met Met Met Pro Phe Leu Gln Val Met Thr Phe Ile Leu Pro
 20 25 30
 Gly Ala Ile Ala Thr Thr Ala Ala Thr Ser Ile Pro Ala Thr Leu Asn
 35 40 45
 Ile Thr Val Val Gly Ala Arg Asn Asn Gln Ser Ile Leu Glu Cys Trp
 50 55 60
 Ser Leu Glu Pro Gly Phe Glu Ser Ser Thr Gln Pro Gly Ile Ala Gly
 65 70 75 80
 Ser Ala Ser Leu Ser Leu Gly Pro Val Gly Gly Asn Ala Thr Tyr Thr
 85 90 95
 Ile Val Pro Ala Gln Phe Asp Gly Gly Ile His Asn Ala Pro Val Arg
 100 105 110
 Gln Tyr Val Ser Leu Pro Val Tyr Pro Thr His Val Val His Lys Asn
 115 120 125
 Asn Val Gly Ala Glu Arg Cys
 130 135

<210> 31602

<211> 161

<212> PRT

<213> A.fumigatus

<400> 31602

Met Val Ser Arg Thr Met Val Arg Ser Pro Val Trp Lys His Asp Ser
 1 5 10 15
 Ser Ile Pro Leu Ser Phe Val Leu Ser Asp Cys Val Arg Thr Val Asp
 20 25 30
 Asn Val Thr Pro Glu Val Ile Cys Cys Thr Ala Ala Leu Gly Phe Pro
 35 40 45
 Gly Thr Arg Asp Pro Ile Arg Thr Ser Ser Ser Ser Ala Ser Thr
 50 55 60
 Ser Ile Ser Ser Glu Ala Leu Ala Arg Lys Ser Ser Pro Lys Asp Gly
 65 70 75 80
 Ser Pro Val Ser Ser Ser Thr Ser Ser Ser Thr Pro Ala Ser Asp
 85 90 95
 Arg Ile Ser Met Ser Leu Ser Ala Ser Phe Phe Cys Phe Arg Cys Arg
 100 105 110
 Val Ser Phe Phe Ser Thr Gly Phe Phe Ala Ser Ser Ser Pro Ser Ser
 115 120 125
 Glu Ser Ser Ser Leu Ser Ala Thr Val Val Ser Ala Leu Val Ser Cys
 130 135 140
 Ile Ser Thr Ser Val Tyr Arg Gln Arg Leu Glu Ser Thr Arg Arg Gly
 145 150 155 160
 His

<210> 31603

<211> 67

<212> PRT

<213> A.fumigatus

<400> 31603

Ser Ser Ala Tyr Glu Thr Arg Arg Val Val Asn Tyr Leu Ile Met Thr
 1 5 10 15
 Ser Ser Ala Asn Thr Thr Asp Leu His Asp Trp Asn Asp Lys Tyr Leu
 20 25 30

12222

Thr Asp Pro Phe Pro Gly Ile Glu Thr Asn Gln Pro Ser Glu Ile Asn
 35 40 45
 Leu Arg Arg Phe Ala Ser Thr Leu Ile Gln His Ser Met Arg Trp Phe
 50 55 60
 Leu Ile Pro
 65

<210> 31604
 <211> 402
 <212> PRT
 <213> A.fumigatus

<400> 31604
 Thr Asp Val Glu Met Gln Asp Thr Arg Ala Asp Thr Thr Val Ala Asp
 1 5 10 15
 Ser Glu Glu Asp Ser Glu Asp Gly Asp Asp Ala Lys Lys Pro Val
 20 25 30
 Glu Lys Lys Glu Thr Arg Gln Arg Lys Gln Lys Lys Asp Ala Asp Ser
 35 40 45
 Asp Ile Glu Met Arg Ser Glu Ala Gly Val Glu Glu Asp Val Glu Glu
 50 55 60
 Asp Glu Thr Gly Glu Pro Ser Phe Gly Glu Leu Leu Arg Ala Asn Ala
 65 70 75 80
 Ser Glu Glu Ile Asp Val Glu Ala Glu Leu Glu Asp Asp Val Arg Ile
 85 90 95
 Gly Ser Leu Val Pro Gly Lys Pro Ser Ala Ala Val Gln Gln Ile Thr
 100 105 110
 Ser Gly Val Thr Leu Ser Thr Val Leu Thr Gln Ser Leu Lys Thr Asn
 115 120 125
 Asp Asn Gly Met Leu Glu Ser Cys Phe His Thr Gly Asp Leu Thr Ile
 130 135 140
 Val Arg Glu Thr Ile Gln Arg Leu Asp Ser Ser Leu Ala Ala Thr Leu
 145 150 155 160
 Leu Gln Lys Leu Ala Glu Arg Leu Ser Ser Arg Pro Gly Arg Tyr Gly
 165 170 175
 His Leu Leu Val Trp Val Gln Trp Thr Cys Val Ala His Gly Gly Ala
 180 185 190
 Leu Ala Gly Lys Pro Glu Leu Leu Lys Arg Met Ser Thr Leu Phe Lys
 195 200 205
 Val Met Asp Gln Arg Ser Ser Ser Leu Ser Ser Leu Leu Leu Leu Lys
 210 215 220
 Gly Lys Leu Asp Met Leu His Ala Gln Leu Gly Leu Arg Gln Ser Leu
 225 230 235 240
 Arg Ser Gly Ala Glu Gly Met Asp Ser Glu Asp Glu Asp Asn Val Ile
 245 250 255
 Tyr Val Glu Gly Gln Glu Glu Leu Glu Asp Glu Asp Ser Asp Ala Asp
 260 265 270
 Thr Ala Lys Asn Ala Val Thr Pro Arg Thr Lys Ser Ile Arg Asp Gln
 275 280 285
 Thr Tyr Asp Glu Asp Glu Ser Met Ile Asp Gly Asp Gln Ser Gly Arg
 290 295 300
 Asp Glu Ser Asp Asp Glu Glu Asp Asp Gly Ser Asp Glu Glu Glu Glu
 305 310 315 320
 Asn Glu Glu Asp Val Phe Asp Val Glu Ala Glu Glu Ser Val Gly Ser
 325 330 335
 Ser Asp Ala Glu Glu Ser Leu Asp Asp Glu Asp Asp Glu Glu Asp Asp

340 345 350
 Asp Ala Glu Ser Ala Gly Ser Met Ala Asp Phe Ile Ala Asp Thr Glu
 355 360 365
 Asp Asp Glu Ser Asp Glu Asp Ala Leu Ser Ala Gln Pro Pro Pro Ser
 370 375 380
 Lys Lys Ala Lys Phe Gly Gly Ser Gly Gly Lys Glu Lys Lys Ser Gly
 385 390 395 400
 Arg Arg

<210> 31605
 <211> 319
 <212> PRT
 <213> A.fumigatus

<400> 31605
 Arg Lys Gly Gly Asn Thr Ile Leu Gly Glu Ala Gly Ala Ala Gly Glu
 1 5 10 15
 Val Ala Thr Ala Gly Glu Pro Ser Asp Glu Asp Asn Phe Asn Val Gly
 20 25 30
 Ile Asp Phe Asp Ala Gly Gly Thr Thr Lys Asn Ser Ser Gln Leu Gly
 35 40 45
 Thr Ser Val Lys Arg Gln Gly Gly His Ala Leu Ala Gly Asp Gln Asp
 50 55 60
 Arg Asn Asn Ala Thr Glu Asn Arg Ala Glu Ser Cys Leu Glu Ser Ala
 65 70 75 80
 Ser Asn Glu Gly Gly Lys Ile Ala Lys Glu Thr Cys Gly His Ala Asp
 85 90 95
 Gly Asp Ile Gly Leu Glu Ser Glu Arg Lys Pro Glu Glu Asn Asn Ser
 100 105 110
 Leu Glu Leu Ser Ala Glu Arg Ala Ala Gly Ala Gly Glu Pro Gly Asp
 115 120 125
 Glu Ser Gly Thr Asn Phe Asn Ile Lys Gly Asn Gly Gly Thr Ala Leu
 130 135 140
 Gly Ala Gly Leu Glu Gly Gly Leu Asn Val Gly Val Glu Thr Gly Gly
 145 150 155 160
 Asn Ala Gly Phe Glu Glu Gly Gly Glu Arg Ser Leu Ser Ala Gly Gly
 165 170 175
 Glu Asp Ala Ser Leu Leu Asn Gln Gly Asp Asp Gly Ser Thr Gly Arg
 180 185 190
 Asp Arg Cys Gln Thr Ile Ala Gly Gln Arg Pro Asn Gly Asp Asp Val
 195 200 205
 Gly Thr Asn Leu Thr Leu Gln Pro Ser Gln His Gly Asn Leu Gln Arg
 210 215 220
 Ser Gly Gln Gly Ala Phe Gly Thr Gly Glu Pro Gly Phe Gln Gly Gly
 225 230 235 240
 Leu His Ile Gly Gly Glu Val Asp Glu Asp Thr Ala Ala Ser Thr Lys
 245 250 255
 Ala Glu Thr Ser Pro Asn Leu Gly Ile Glu Ser Ser Leu Asn Arg Arg
 260 265 270
 Arg Glu Glu Cys Gly Gln Arg Ser Leu Gly Gly Ser Ala Gln Asp Asn
 275 280 285
 Ile Cys Gly Asp Leu Gly Gly Gly Glu Asp Thr Leu Asn Gly Asn Lys
 290 295 300
 Lys Val Ala Leu Gly Gly Asp Val Ser Ala Ser Gly Asp Gln His
 305 310 315

<210> 31606
 <211> 304
 <212> PRT
 <213> A.fumigatus

<400> 31606
 Tyr Ser Gln Ala Glu Thr Met Thr Val Leu Val Thr Val Ile Thr Leu
 1 5 10 15
 Gly Pro Leu Glu Gly Thr Ala Val Gly Ala Ala Val Met Val Ala Ala
 20 25 30
 Pro Leu Val Thr Ala Pro Val Leu Val Ala Met Gly Thr Thr Val Ser
 35 40 45
 Glu Thr Lys Val Ser Gln Gly Val Ser Ala Ala Ser Gly Pro Ala Gly
 50 55 60
 Glu Ser Pro Glu Gly Ala Gly Thr Ala Ser Glu Thr Met Gly Gly Thr
 65 70 75 80
 Leu Pro Phe Asp Ala Pro Leu Gly Glu Ala Pro Glu Gly Thr Glu Pro
 85 90 95
 Leu Gly Thr Leu Gly Ala Gly Thr Leu Ala Ala Ser Glu Gly Glu Ala
 100 105 110
 Pro Leu Gly Thr Gly Thr Gly Thr Leu Gly Thr Glu Pro Glu Gly Thr
 115 120 125
 Glu Pro Leu Gly Met Pro Glu Gly Val Gly Thr Glu Thr Glu Gly Thr
 130 135 140
 Pro Val Ala Glu Pro Val Gly Val Glu Gly Arg Val Gly Ile Arg Ser
 145 150 155 160
 Leu Val Lys Leu Glu Pro Leu Gly Arg Trp Pro Gln Pro Val Ser His
 165 170 175
 Pro Met Arg Ile Ile Ser Met Leu Glu Ser Ile Ser Met Pro Ala Ala
 180 185 190
 Pro Pro Arg Ile Ala Ala Ser Trp Ala Arg Ala Ser Arg Asp Arg Glu
 195 200 205
 Ala Met Leu Ser Pro Glu Ile Arg Ile Glu Ile Thr Pro Arg Lys Thr
 210 215 220
 Glu Pro Arg Val Ala Ser Arg Val Pro Val Met Lys Glu Val Arg Ser
 225 230 235 240
 Pro Arg Arg Pro Val Asp Thr Leu Thr Glu Thr Ser Ala Ser Arg Ala
 245 250 255
 Asn Glu Ser Gln Lys Arg Thr Ile Ala Leu Ser Ser Ala Pro Ser Glu
 260 265 270
 Gln Leu Glu Leu Val Ser Gln Ala Thr Arg Ala Val Arg Thr Ser Thr
 275 280 285
 Ser Arg Glu Thr Ala Ala Pro Pro Leu Ala Gln Ala Ser Arg Ala Ala
 290 295 300

<210> 31607
 <211> 195
 <212> PRT
 <213> A.fumigatus

<400> 31607
 Ala Leu Ala Glu Arg Met Pro Val Ser Ser Thr Arg Ala Thr Thr Glu
 1 5 10 15
 Ala Pro Ala Glu Ile Val Ala Arg Pro Leu Leu Gly Arg Asp Pro Met
 20 25 30

Ala Met Thr Ser Ala Pro Thr Leu Pro Ser Asn Gln Ala Asn Thr Ala
 35 40 45
 Thr Phe Arg Glu Ala Asp Arg Val His Ser Glu Leu Ala Ser Gln Ala
 50 55 60
 Phe Arg Ala Ala Cys Thr Ser Ala Ala Arg Ser Thr Lys Thr Pro Pro
 65 70 75 80
 Pro Ala Gln Arg Leu Arg Pro Ala Leu Thr Leu Ala Ser Arg Ala Val
 85 90 95
 Ser Thr Asp Ala Glu Arg Asn Ala Asp Arg Glu Ala Trp Ala Glu Ala
 100 105 110
 Leu Arg Thr Thr Phe Ala Ala Thr Ser Ala Glu Glu Lys Ile Pro Ser
 115 120 125
 Met Val Thr Lys Arg Ser Pro Leu Ala Ala Met Ser Ala Gln Val Gly
 130 135 140
 Ile Ser Thr Asp Ser Pro Ala Gln Thr Ser Ala Glu Arg Val Thr Glu
 145 150 155 160
 Ala Ser Pro Ser His Ser Arg Arg Glu Ala Leu Met Asp Ala Ser
 165 170 175
 Arg Lys Ala Ala Ser Ala Arg Ser Gln Ala Ala Ser Ser Ala Leu
 180 185 190
 Ala Ala Ala
 195

<210> 31608

<211> 630

<212> PRT

<213> A.fumigatus

<400> 31608

Tyr Leu Pro Arg His Ser Phe Asn Ile Ser Tyr Cys Ala Pro Thr Met
 1 5 10 15
 Arg Ser Asn Lys Leu Phe Leu Leu Ala Ser Leu Val Ser Tyr Val Leu
 20 25 30
 Ala Leu Pro Thr Asp Val Glu Thr Arg His Leu Lys Leu Gly Ala Asp
 35 40 45
 Leu Asp Ile Gly Asp Leu Ser Ile Gly Ala Gly Ile Ser Ile Asp Gly
 50 55 60
 Gly Leu Asp Leu Ser Ala Leu Ile Asn Ala Ile Leu Gly Gly His Ala
 65 70 75 80
 Ser Thr Thr Thr Leu Leu Ala Gly Leu Ser Ala Gln Ala Ala Ala Ala
 85 90 95
 Leu Gln Gly Gly Val Leu Gly Cys Lys Ala Gly Ala Ile His Ala Ala
 100 105 110
 Ala Arg Ala Glu Leu Ala Ala Trp Leu Arg Ala Glu Ala Ala Ala Phe
 115 120 125
 Leu Asp Ala Ser Ile Lys Ala Ser Leu Leu Glu Trp Cys Glu Gly Asp
 130 135 140
 Ala Ser Val Thr Leu Ser Ala Asp Val Cys Ala Gly Leu Ser Val Leu
 145 150 155 160
 Ile Pro Thr Cys Ala Asp Ile Ala Ala Lys Gly Asp Leu Phe Val Thr
 165 170 175
 Ile Glu Gly Ile Phe Ser Ser Ala Glu Val Ala Ala Asn Val Val Leu
 180 185 190
 Ser Ala Ser Ala Gln Ala Ser Leu Ser Ala Phe Leu Ser Ala Ser Val
 195 200 205
 Glu Thr Ala Leu Asp Ala Lys Val Arg Ala Gly Leu Ser Leu Cys Ala

210		215		220
Gly Gly Gly Val Phe Val Asp Leu Ala Ala Asp Val Gln Ala Ala Leu				
225		230		235
Lys Ala Trp Leu Ala Ser Ser Glu Cys Thr Leu Ser Ala Ser Leu Lys				240
	245		250	255
Val Ala Val Leu Ala Trp Leu Glu Gly Lys Val Gly Ala Asp Val Ile				
	260		265	270
Ala Ile Gly Ser Leu Pro Ser Asn Gly Leu Ala Thr Ile Ser Ala Gly				
	275		280	285
Ala Ser Val Val Ala Leu Val Glu Glu Thr Gly Ile Leu Ser Ala Ser				
	290		295	300
Ala Gln Ala Ser Leu Ala Ala Phe Leu Glu Ala Gly Ile Ser Ala Gly				
305		310		315
Leu Asp Ala His Val Gln Ala Ala Leu Glu Ala Cys Ala Lys Gly Gly				320
	325		330	335
Ala Ala Val Ser Leu Asp Val Glu Val Arg Thr Ala Leu Val Ala Trp				
	340		345	350
Leu Thr Ser Ser Ser Cys Ser Leu Gly Ala Glu Leu Lys Ala Ile Val				
	355		360	365
Leu Phe Trp Leu Ser Phe Ala Leu Glu Ala Asp Val Ser Val Ser Val				
	370		375	380
Ser Thr Gly Leu Leu Gly Asp Leu Thr Ser Phe Ile Thr Gly Thr Leu				
385		390		395
Glu Ala Thr Leu Gly Ser Val Phe Arg Gly Val Ile Ser Ile Leu Ile				400
	405		410	415
Ser Gly Glu Ser Met Ala Ser Leu Ser Leu Asp Ala Arg Ala Gln Leu				
	420		425	430
Ala Ala Ile Leu Gly Gly Ala Ala Gly Ile Glu Ile Asp Ser Asn Ile				
	435		440	445
Glu Ile Ile Leu Ile Gly Trp Leu Thr Gly Cys Gly His Leu Pro Ser				
	450		455	460
Gly Ser Ser Phe Thr Lys Asp Arg Ile Pro Thr Leu Pro Ser Thr Pro				
465		470		475
Thr Gly Ser Ala Thr Gly Val Pro Ser Val Ser Val Pro Thr Pro Ser				480
	485		490	495
Gly Ile Pro Ser Gly Ser Val Pro Ser Gly Ser Val Pro Asn Val Pro				
	500		505	510
Val Pro Val Pro Ser Gly Ala Ser Pro Ser Asp Ala Ala Asn Val Pro				
	515		520	525
Ala Pro Ser Val Pro Ser Gly Ser Val Pro Ser Gly Ala Ser Pro Ser				
	530		535	540
Gly Ala Ser Asn Gly Asn Val Pro Pro Ile Val Ser Glu Ala Val Pro				
545		550		555
Ala Pro Ser Gly Asp Ser Pro Ala Gly Pro Asp Ala Ala Glu Thr Pro				
	565		570	575
Cys Glu Thr Leu Val Ser Glu Thr Val Val Pro Ile Ala Thr Lys Thr				
	580		585	590
Gly Ala Val Thr Asn Gly Ala Ala Thr Ile Thr Ala Ala Pro Thr Ala				
	595		600	605
Val Pro Ser Lys Gly Pro Lys Val Ile Thr Val Thr Lys Thr Val Ile				
	610		615	620
Val Ser Ala Cys Glu Tyr				
625		630		

<210> 31609

<211> 70

<212> PRT

<213> A.fumigatus

<400> 31609

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Val Leu Arg Gln Pro Leu Pro Cys Arg Glu Ala Tyr Leu Val Ala Arg
1           5           10           15
Pro Val Arg Phe Met Pro Pro Pro Glu Leu Asn Trp Pro Pro Gly Phe
          20           25           30
Val Leu Arg Pro Pro Pro Ser Ser Met His Pro Ser Arg Leu Pro Phe
          35           40           45
Ser Ser Gly Val Lys Val Thr Pro Pro Ser Pro Phe Pro Pro Met Ser
          50           55           60
Ala Pro Asp Cys Gln Cys
65           70

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<210> 31610

<211> 159

<212> PRT

<213> A.fumigatus

<400> 31610

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Arg Leu Pro Cys Trp Leu Gly Trp Arg Val Arg Leu Val Pro Thr Ser
1           5           10           15
Ser Pro Leu Gly Leu Cys Pro Ala Met Val Trp Gln Arg Ser Leu Pro
          20           25           30
Val Leu Pro Ser Ser Pro Trp Leu Arg Arg Leu Ala Ser Ser Pro Pro
          35           40           45
Ala Leu Arg Leu Leu Ser Pro Pro Ser Ser Lys Pro Ala Phe Pro Pro
          50           55           60
Val Ser Thr Pro Thr Phe Arg Pro Pro Ser Arg Pro Ala Pro Arg Ala
65           70           75           80
Val Pro Pro Phe Pro Leu Met Leu Lys Phe Val Pro Leu Ser Ser Pro
          85           90           95
Gly Ser Pro Ala Pro Ala Ala Arg Ser Ala Leu Ser Ser Arg Leu Leu
          100          105          110
Phe Ser Ser Gly Phe Arg Ser Leu Ser Arg Pro Met Ser Pro Ser Ala
          115          120          125
Cys Pro Gln Val Ser Leu Ala Ile Leu Pro Pro Ser Leu Leu Ala Leu
          130          135          140
Ser Arg Gln Leu Ser Ala Leu Phe Ser Val Ala Leu Phe Arg Ser
145          150          155

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<210> 31611

<211> 200

<212> PRT

<213> A.fumigatus

<400> 31611

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Ser Pro Ala Arg Ala Trp Pro Pro Cys Leu Leu Thr Leu Val Pro Ser
1           5           10           15
Trp Leu Leu Phe Leu Val Val Pro Pro Ala Ser Lys Ser Ile Pro Thr
          20           25           30
Leu Lys Leu Ser Ser Ser Asp Gly Ser Pro Ala Val Ala Thr Ser Pro
          35           40           45
Ala Ala Pro Ala Ser Pro Arg Ile Val Phe Pro Pro Phe Leu Gln Leu
          50           55           60

```

Pro Pro Ala Leu Pro Pro Val Phe Leu Leu Ser Leu Cys Pro Leu Leu
65 70 75 80
Pro Ala Ser Pro Ala Ala Pro Phe Pro Pro Ala Pro Ser Leu Thr Cys
85 90 95
Pro Ser Pro Ser Pro Ala Val Leu Pro Pro Leu Met Pro Pro Thr Phe
100 105 110
Leu Pro Pro Ala Ser Pro Ala Ala Pro Phe Leu Leu Val Pro Pro Leu
115 120 125
Ala Glu His Gln Thr Ala Met Phe Pro Pro Leu Phe Pro Arg Gln Ser
130 135 140
Leu Leu Pro Pro Val Ile Leu Leu Leu Ala Leu Thr Pro Pro Arg Arg
145 150 155 160
Leu Ala Arg Leu Trp Phe Leu Arg Leu Leu Ser Pro Leu Leu Pro Arg
165 170 175
Pro Gly Pro Leu Leu Thr Val Leu Arg Pro Ser Pro Leu Pro Leu Pro
180 185 190
Arg Cys Leu Leu Arg Val Pro Arg
195 200

<210> 31612

<211> 270

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (141), (147), (203), (217), (259)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31612

Glu Asn Val Asp Val Trp Ser Leu Gly Ile Ile Leu Tyr Ala Leu Leu
1 5 10 15
Ala Gly Glu Leu Pro Phe Asp Glu Tyr Asp Tyr Gln Val Thr Asn Lys
20 25 30
Lys Ile Leu Thr Glu Glu Pro Val Phe Asn Asp Lys Phe Pro Asp Asp
35 40 45
Ala Lys Ala Leu Ile Asn Leu Leu Leu Ser Lys Arg Pro Leu Ile Arg
50 55 60
Pro Ser Leu Ala Asp Ile Leu Ala His Pro Phe Leu Ala Glu His Ala
65 70 75 80
Pro Glu Gln Gln Ala Ile Leu Lys Ile Ala Arg Pro Ala Pro Phe Ser
85 90 95
Thr Pro Leu Glu Arg Thr Thr Leu Gln Arg Met Lys Ser Ala Gly Val
100 105 110
Asn Val Asp Glu Val Met Glu Ser Val Leu Ala Gln Arg Cys Asp Pro
115 120 125
Leu Ala Gly Trp Trp Ala Leu Leu Ile Glu Lys Glu Xaa Arg Lys Glu
130 135 140
Val Arg Xaa Glu Arg Lys Arg Arg Glu Arg Glu Ala Glu Ala Lys Asn
145 150 155 160
Leu Arg Arg Leu Ser Ala Ala Ser Ser Arg Leu Glu Lys Ile Ser Ala
165 170 175
Ala Leu Leu Glu Val Asp Glu Glu Gly His Ala Ser Pro Ser Thr Leu
180 185 190
Leu Gln Glu Arg Arg Lys Arg Asp Arg Arg Xaa Ser Ser Ser Gln Leu
195 200 205

12229

Ala	Val	Pro	Glu	Phe	Ala	Met	Leu	Xaa	Glu	Pro	Val	Pro	Val	Gln	Pro
210						215					220				
Leu	Asp	Leu	Asn	Thr	Pro	Val	Ala	Pro	Pro	Pro	Pro	Pro	Pro	Thr	Asp
225					230					235					240
Lys	Asp	Ser	Val	Arg	Ser	Gly	Ser	Ser	Thr	Lys	Thr	Ser	Ala	Lys	Tyr
				245					250					255	
Ser	Pro	Xaa	Arg	Gln	Tyr	Ala	Thr	Ala	Lys	His	Pro	Ala	Cys		
			260					265					270		

<210> 31613
 <211> 117
 <212> PRT
 <213> A.fumigatus

<400> 31613

Pro	Cys	Ala	Lys	Gln	Arg	Leu	Leu	Leu	Gln	Pro	Ser	Ser	Phe	Ile	Ser
1			5						10					15	
Ala	Thr	Ala	Pro	Ala	Ala	Glu	Tyr	Trp	Leu	Ser	Glu	Pro	Ser	Gln	Phe
			20					25					30		
Ser	Ile	Ser	Val	Ser	Asn	His	Ala	Lys	Gly	Leu	Val	Gln	Thr	Ile	Leu
		35					40					45			
His	Gly	Ala	Thr	Arg	Ser	Gln	Ile	His	Leu	Val	Leu	Cys	Ile	Leu	His
	50					55					60				
Thr	Lys	His	Ser	Ser	Tyr	Ala	His	Ser	Leu	Gln	Gly	Val	Phe	Cys	Phe
65					70					75					80
Leu	Lys	Gln	His	Trp	Ile	Arg	Ile	Asp	Pro	Asp	Gly	Ser	Ala	Phe	Glu
				85					90					95	
Ile	Pro	Thr	Cys	Val	Asp	Lys	Ser	Ser	Pro	Tyr	Asp	Thr	Gln	Cys	Leu
			100					105					110		
Arg	Thr	Leu	Ser	Glu											
			115												

<210> 31614
 <211> 277
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (19)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31614

Gln	Gly	Leu	Gly	Pro	Ile	Trp	Gln	Leu	Asn	Gln	Asp	Val	Gly	Gln	Val
1				5				10						15	
Leu	Pro	Xaa	Lys	Thr	Ile	Arg	Asp	Arg	Glu	Ala	Pro	Cys	Met	Leu	Val
			20					25					30		
Arg	Ser	His	Pro	Asp	Leu	Ala	Gln	His	Asn	Gly	Ile	Leu	Arg	Arg	Arg
		35					40					45			
Thr	Gly	Arg	Arg	Gln	Tyr	Pro	Ile	Ile	Ser	Gln	Leu	Ala	Ser	Leu	Lys
	50					55					60				
His	Trp	Leu	Met	Glu	Ser	Ala	Lys	Arg	Ala	Lys	Ser	Pro	His	Pro	Lys
65					70					75					80
Ser	Ala	Gly	Gly	Gly	His	Arg	Lys	Phe	Phe	Ser	Asp	Arg	Leu	Ser	Pro
			85						90					95	
Gly	Lys	Gly	Gln	Glu	Val	Gly	Lys	Lys	Pro	Ala	Pro	Thr	Ser	Pro	Asn

12230

100 105 110
 Ile Pro Pro Ala Gly Asp Leu Ala Thr Pro Thr Gln Ile Lys Arg Ala
 115 120 125
 Ser Asn Ala Ser Ser Leu Ala Pro Ser Ser Ala Ser Tyr Ser Asn His
 130 135 140
 Arg His Ser Tyr Pro Arg Gln Pro Arg Pro Leu Ser Thr Gly Tyr Pro
 145 150 155 160
 Ser His Arg Asn Ser Leu Ser Pro Ser Pro Ile Thr Pro Arg Gly Ser
 165 170 175
 Tyr Arg Arg Ser Ser Thr Gly Leu Arg Gly Arg Lys Ser Thr Ser Ser
 180 185 190
 Ser Val Ser Ser Ile Arg Ser Ile His His Thr His Thr His Ser Lys
 195 200 205
 Ala Ser Ser Val Ser Ser Asn Ser Ile Gly Ser Ala Ser Thr Pro Thr
 210 215 220
 Ala Arg Pro Ser Arg Ser Pro His Ala Ser Ile Lys Val Leu Pro Thr
 225 230 235 240
 Thr Pro Ser Ala Ser Ala Arg Phe Pro Ser Asn Ile Arg Leu Val Arg
 245 250 255
 Asn Ala Gly Asn Gly Phe Arg Asp Thr His Asp Ala Asn Gly Arg Met
 260 265 270
 Gln Ser Val Phe Asn
 275

<210> 31615
 <211> 140
 <212> PRT
 <213> A.fumigatus

<400> 31615
 Ser Pro His Arg Val Thr Phe Gln Pro Arg Arg Cys Lys Asn Val Thr
 1 5 10 15
 Met Phe Phe Glu Ser Val Cys Phe Pro Thr Ile Val Ala Leu Gly Ile
 20 25 30
 Arg Gly Leu Gly Arg His Tyr Lys Arg Gly Ser Gly Phe Ile Val Gly
 35 40 45
 Gly Val Cys Gly Gly Ala Val Val Pro Pro Leu Leu Gly His Val Ala
 50 55 60
 Asp Met His Asn Ser Thr Gly Phe Ala Met Ile Val Pro Thr Met Phe
 65 70 75 80
 Met Val Ala Ala Trp Thr Tyr Ala Val Ala Val Asn Phe Val Pro Ala
 85 90 95
 Tyr Arg Asp Thr Val Asp Lys Val Gly Asp Ser Gln Ile Gly Leu Thr
 100 105 110
 Glu Gly Gly Gly Ala Gly Val Met Lys Asp Ile Glu Ala Arg Gly Met
 115 120 125
 Glu Lys Ser Ala Glu Gly Ser Val Gln Ile Glu His
 130 135 140

<210> 31616
 <211> 442
 <212> PRT
 <213> A.fumigatus

<400> 31616
 Glu Phe Ser Tyr Phe Arg Thr Glu Val Leu Gln Leu Asp Gln Ile Ala

12231

1		5		10		15									
Gln	Arg	Leu	Gly	Phe	Pro	Ser	Val	Val	Pro	Val	Ile	Asp	Gly	Ser	Ile
		20						25					30		
Asp	Asp	Gly	Pro	Ala	Ser	Pro	Val	Leu	Thr	Gln	Leu	Ser	Val	Thr	Val
		35					40					45			
Leu	Glu	Ile	Ala	Leu	Ala	Arg	Phe	Trp	Ser	His	Leu	Gly	Ile	Arg	Ile
		50				55					60				
Ser	Ala	Val	Ile	Gly	His	Ser	Leu	Gly	Glu	Tyr	Ala	Ala	Phe	Ala	Val
65					70					75					80
Ala	Gly	Val	Ile	Ser	Ala	Thr	Glu	Ala	Leu	Tyr	Leu	Val	Gly	Arg	Arg
				85					90					95	
Ala	Gln	Leu	Thr	Glu	Glu	Arg	Cys	Thr	Gln	Gly	Ser	His	Ser	Met	Leu
		100						105					110		
Ser	Val	Arg	Ala	Ser	Glu	Asp	Asp	Ile	Glu	Glu	Leu	Ile	Ala	Gly	Ser
		115					120					125			
Pro	Asp	Thr	Ala	Glu	Leu	Ala	Tyr	Glu	Val	Cys	Cys	Arg	Asn	Thr	Pro
		130				135					140				
Gln	Asp	Thr	Val	Ile	Gly	Thr	Gln	Glu	Ser	Ile	Asp	Ser	Ile	Arg	
145					150				155					160	
Gln	Ala	Leu	Glu	Lys	Asn	Thr	Ile	Lys	Cys	Thr	Gln	Leu	Asp	Val	Pro
				165					170					175	
Phe	Ala	Phe	His	Thr	Ala	Gln	Met	Asp	Pro	Ile	Leu	Asp	Ser	Leu	Glu
			180					185					190		
Thr	Leu	Ala	Thr	Pro	Ile	Thr	Phe	Lys	Ala	Pro	Ser	Ile	Pro	Val	Leu
		195					200					205			
Ser	Pro	Leu	Leu	Gly	Ser	Val	Val	Phe	Asp	Arg	Lys	Ser	Ile	His	Ala
		210				215					220				
Gln	Tyr	Leu	Arg	Arg	Ala	Thr	Arg	Glu	Thr	Val	Asp	Phe	Val	Ala	Ala
225					230					235					240
Ile	Glu	Ala	Ala	Gln	Asp	Phe	Gly	Leu	Val	Asp	Ala	Lys	Thr	Ile	Trp
				245					250					255	
Ile	Asp	Val	Gly	Pro	His	Pro	Ile	Cys	Ala	Gly	Leu	Val	Arg	Gly	Ile
		260						265					270		
Asp	Ser	Ser	Ala	Ser	Val	Ile	Ser	Ser	Cys	Arg	Arg	Asn	Glu	Asp	Asn
		275					280					285			
Leu	Ala	Thr	Met	Ser	Lys	Ser	Leu	Val	Thr	Leu	His	Leu	Ala	Gly	Leu
		290				295					300				
Thr	Pro	Cys	Trp	Ala	Glu	Tyr	Phe	Arg	Pro	Arg	Glu	Gln	Glu	Tyr	Ser
305					310					315					320
Leu	Leu	Lys	Leu	Pro	Thr	Tyr	Ser	Trp	Asn	Glu	Thr	Asp	Tyr	Trp	Ile
				325					330					335	
Pro	Tyr	Ile	Gly	Thr	Trp	Thr	Leu	Asp	Lys	Ala	Leu	Leu	Lys	Tyr	Gly
			340					345					350		
Glu	Lys	Lys	Ala	Pro	Leu	Ser	Leu	Ser	Met	Ser	Arg	Pro	Ser	Ala	Leu
		355					360					365			
Arg	Thr	Ser	Leu	Val	His	Gln	Ile	Thr	Thr	Glu	Thr	Val	Glu	Ala	Thr
		370				375					380				
Thr	Ala	Thr	Leu	His	Val	Leu	Ser	Asp	Met	Gln	His	Pro	Asp	Phe	Leu
385					390					395					400
Glu	Ala	Leu	His	Gly	His	Arg	Met	Asn	Asn	Cys	Gly	Val	Ala	Thr	Ser
			405						410					415	
Val	Cys	His	Leu	Phe	Tyr	Thr	Leu	Arg	Thr	Ser	Gly	Val	Tyr	Ala	Cys
			420					425					430		
Lys	Gln	Ser	Cys	His	Cys	Leu	Gly	His	Ser						
		435					440								

<210> 31617
 <211> 65
 <212> PRT
 <213> A.fumigatus

<400> 31617
 Thr Leu Arg Leu Ala Ala Trp Cys Tyr Arg Cys Arg Leu Leu Ile Ala
 1 5 10 15
 Thr Gly Asp Ile Ile Asn Met Ile Leu Trp Leu Leu Pro Gly Ser Leu
 20 25 30
 Asp Trp Gly Arg His Phe Arg Gln Arg Ile Val Leu Ile Val Arg Val
 35 40 45
 Leu Asn Tyr Ser Ile Lys Gly His Phe Val Lys Gly Met Tyr Leu Ala
 50 55 60
 Leu
 65

<210> 31618
 <211> 444
 <212> PRT
 <213> A.fumigatus

<400> 31618
 Trp Leu Trp Trp Ile Asn Val Gly Ser Val Met Thr Glu Ile Gly Leu
 1 5 10 15
 Ala Gln Gln Arg Leu Phe Asp Asp Ala Pro His Ser Ala Ile Arg Glu
 20 25 30
 Ala Gln Thr Ala Ala Cys Gly Asn Gln Pro Asp Asn Cys Ser Ala Leu
 35 40 45
 Ala Glu Ser Ser Val Pro Leu Asn Met Ala Val Ser Asn Tyr Asp Asp
 50 55 60
 Tyr Asn His His Glu Gly Ser Pro Val Ala Leu Gln Leu Gly Ser Phe
 65 70 75 80
 Asp Thr Pro Thr Ser Gln Asp Met Ala Leu Leu Asn Gly Lys Asn His
 85 90 95
 Gly His Gly Tyr Ser Asn Asn Asp Ile Thr Gly Phe Tyr Gly Asp His
 100 105 110
 Ile Arg Gln Val Gly Pro Leu Asn Cys Ser Ser Thr His Asp Leu Ala
 115 120 125
 Gln Ser Ser Thr Ser Tyr Asn Phe Phe Glu Ser Ser Leu Asn Gln Ala
 130 135 140
 Ala Gln Leu Asn Asp Asp Leu Gln Ser His Leu Arg Ser Ser Gly Thr
 145 150 155 160
 Val Gln Thr Glu Ala Ile His Lys Thr Pro Gly Arg Ser His Ser Met
 165 170 175
 Gln Ala Thr Ser Tyr Ser Pro His Asp Thr Glu Pro Ile Ser Ser Leu
 180 185 190
 Val Thr Pro Lys Val Asn Arg Val Gln Ser Asp Ser Thr Tyr Arg Phe
 195 200 205
 Ala Pro Ser Gln Ser Gln Arg Ser Glu Cys Asp Glu Leu Ala Ala Pro
 210 215 220
 Val Thr Val Glu Ile Pro Ala Val Lys Leu Lys Arg Gly Arg Lys Arg
 225 230 235 240
 Lys Gln Asp Ile Pro Glu Gly Asp Glu Asp Asp Glu Leu Ala Pro Ser
 245 250 255
 Asn Asp Arg Ala Ile Pro Glu Gly Gly Glu Thr Val Lys Arg Lys Pro

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<210> 31619
<211> 169
<212> PRT
<213> A.fumigatus
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<210> 31620
<211> 89
<212> PRT
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<213> A.fumigatus

<400> 31620

Trp Thr Ser Ile Gly Thr Trp Asp Leu Thr His Cys Arg Ser Phe Gly
 1 5 10 15
 Leu Pro Asn Met Ala Ser Asn Ser Thr Asp Glu Ala Pro Pro Glu Val
 20 25 30
 His His Tyr Asn Tyr Ile Gly Glu Val Pro Trp Asp Ile Gln Lys Tyr
 35 40 45
 Val Leu Pro Thr Asp Pro Arg Leu Gly Ser Ser Ala Asp Phe Leu Val
 50 55 60
 Thr Gly Arg Asn Asp Thr Arg Tyr Phe Arg Asp Thr Met Lys Ala Ser
 65 70 75 80
 Gly Ser Pro Thr Thr Pro Gly Leu Val
 85

<210> 31621

<211> 134

<212> PRT

<213> A.fumigatus

<400> 31621

Arg Thr Arg Ser His Gly Ser Arg Val Ile Val Ser Leu Phe Ser Arg
 1 5 10 15
 Ile Asn Ser Arg Asn Ser Leu Leu Ile Ala Ser Ser Leu Gln Val Arg
 20 25 30
 His Gly Val Val Cys Ser Leu Leu Phe Pro Ser Phe Trp Pro Cys Ser
 35 40 45
 Cys Leu Thr Arg Pro Val Gly Pro Gly Tyr Arg Ser Asp Glu Val Phe
 50 55 60
 Asn Leu Arg Thr Met Glu Pro Tyr Ser Leu Lys Thr Leu His Thr Glu
 65 70 75 80
 Tyr Ser Leu Phe Thr Lys Tyr Ile Val Leu Tyr Leu Pro Arg Thr Ser
 85 90 95
 Asp Val Arg Gln Leu Ala Lys Leu Val Arg Asp Gly Glu Lys Ala Pro
 100 105 110
 Val Val His Tyr Cys Met Glu Arg Ala Ser Lys Ala Leu Cys Ile Tyr
 115 120 125
 Tyr Gly Gly Phe Asp Leu
 130

<210> 31622

<211> 156

<212> PRT

<213> A.fumigatus

<400> 31622

Asp Gly Ala Gly Gly Leu Ser Gly Pro Tyr Ala Asp Ile Ala Asn Arg
 1 5 10 15
 Ala Cys Trp Ser Phe His Ala Arg Arg Ala Ala Gly Ser Met Ser Ser
 20 25 30
 Ala Val Gly Val Thr Val Pro Ser Ser Ser Lys Gly Ser Ser Ser Ser
 35 40 45
 Ser Ser Ile Val Ile Gly Ser Gly Ser Gly Ala Ser Val Ser Ala Gly
 50 55 60
 Leu Thr Gly Thr Gly Gly Leu Val Ser Ser Ser Ser Lys Asn Lys Ser

12235

65					70					75				80	
Arg	Val	Val	Ser	Ile	Cys	Ala	Gly	Pro	Gly	Glu	Asp	Gly	Pro	Ser	Pro
				85					90					95	
Lys	Arg	Ser	Ser	Ser	Ser	Ser	Pro	Pro	Gly	Ala	Cys	Trp	Ser	Ser	Arg
			100					105					110		
Ser	Pro	Lys	Arg	Ser	Ser	Ser	Ala	Ser	Asn	Asn	Pro	Phe	Cys	Ser	Ser
		115					120					125			
Ser	Ala	Thr	Ala	Ala	Thr	Ser	Ser	Val	Ala	Ser	Pro	Pro	Val	Arg	Ser
	130					135					140				
Ser	Ser	Ser	Gly	Arg	Ser	Ser	Ser	Ser	Met	Ser	Ser				
145					150					155					

<210> 31623

<211> 68

<212> PRT

<213> A.fumigatus

<400> 31623

Asn	Ser	Thr	Ala	Ser	Leu	Leu	Val	Ser	Phe	Pro	Ala	Leu	Ser	Gly	Gly
1				5					10					15	
Asp	Gly	Val	Phe	Glu	Gln	Phe	Ala	Ser	Ser	Ser	Asp	Phe	Phe	Ser	Trp
			20					25				30			
Ser	Asn	Glu	Phe	Ser	Asn	Ile	Phe	Gly	Cys	Val	Ser	Gln	Leu	Asp	Val
	35					40					45				
Phe	Asp	Cys	Phe	Pro	Glu	Arg	Gly	Ser	Ile	Arg	Leu	Ile	Gly	Pro	Ser
	50					55					60				
Ser	Ala	Ser	Asn												
65															

<210> 31624

<211> 718

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (21)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31624

Ser	Gly	Cys	Ser	Ala	Phe	His	Leu	Ser	Ile	Ser	Leu	Leu	Ser	Ser	Leu
1				5					10					15	
Glu	Ser	Lys	Leu	Xaa	Cys	Leu	Phe	Asn	Leu	Leu	Glu	Asn	Ser	Ser	Gly
			20					25				30			
His	Ala	Trp	Leu	Ile	Arg	Cys	His	His	Val	Cys	Arg	Val	Met	Pro	Leu
	35					40					45				
Leu	Asn	Arg	Ser	Gln	Ser	Ser	Pro	Asp	Ala	Gly	Ile	Arg	Pro	Leu	Gln
	50					55				60					
Ala	Pro	Asp	Thr	Tyr	Phe	Ser	Arg	Asn	Ser	Arg	Ser	Met	Pro	Val	Ser
65				70					75					80	
Asp	Thr	Ser	Ser	Ser	Ser	Tyr	Asn	Ala	Ser	Val	Lys	Arg	Leu	Gly	Tyr
			85					90				95			
Arg	Arg	Ile	Arg	Pro	Ser	Val	Ala	Ser	Ile	Ala	Asp	Ile	Phe	Val	Asn
			100					105				110			
Ser	Leu	Val	Met	Ala	Ser	Phe	Cys	Arg	Asp	His	Ser	Pro	Arg	Asn	Arg
	115						120					125			

Gly Leu Ser Thr Val Ala Val Lys Thr Ser Leu Gln Asn Met Ala Arg
 130 135 140
 Met Lys Gly Lys Cys Ser Thr Thr Ile Arg Arg Leu Thr Ser Gly Lys
 145 150 155 160
 Arg Pro Val Pro Ser Ser Asn Ser Pro Val Glu Cys Phe Gly Phe Asp
 165 170 175
 Arg Trp Arg Thr Arg Arg Thr Phe Asn Ser Gly Val Val Gln Lys Val
 180 185 190
 Lys Asp Asp Asp His Gly Glu Gly Tyr Gly Thr Gln Lys Asn Val Thr
 195 200 205
 Gly Leu Asp Gln Arg Ala Glu Asp Leu Glu Ala Gly Arg Ser Gln Gly
 210 215 220
 Tyr Thr Ser Gln Ser Ala Leu Leu Arg Ser Lys Arg Lys Pro Phe Phe
 225 230 235 240
 Arg Asp Asn Gly Pro Ser Asn Glu Pro His Pro Ser Gly Ser Glu Glu
 245 250 255
 Leu Ile Ser Asn Gln Thr Arg Gly Gln Phe Asp Ala Leu Glu Gly Pro
 260 265 270
 Ile Asn Leu Ile Asp Pro Leu Ser Gly Lys Gln Ser Asn Thr Ser Ser
 275 280 285
 Trp Glu Thr His Pro Lys Met Leu Glu Asn Ser Leu Asp Gln Glu Lys
 290 295 300
 Lys Ser Glu Glu Asp Ala Asn Cys Ser Lys Thr Pro Ser Pro Pro Leu
 305 310 315 320
 Lys Ala Gly Lys Asp Thr Asn Arg Asp Ala Val Glu Phe Gln Ala Val
 325 330 335
 Gln Arg Phe Leu Glu Ala Val Gly Asp Pro Lys Lys Thr Asn Gln Tyr
 340 345 350
 Ile Phe Arg Leu Tyr Arg Asp Leu Pro Ser Pro Gly Val Ala His Leu
 355 360 365
 Ser Lys Arg Thr Arg Gly Leu Leu Arg Arg Met Ser Gln Pro Pro
 370 375 380
 Asn Arg Arg Trp Ala Asp Ala Arg Arg Tyr Leu Ala Ile Val Glu Asp
 385 390 395 400
 Met Ile Ala Ala Lys Leu Pro Leu Ser Pro Ala Leu Trp Thr Ser Ala
 405 410 415
 Ile His Leu Ala Gly Arg Ala Met Gly Gln Val Lys Lys Gln Asp Leu
 420 425 430
 Val Arg Ser Ile Gly Ile Trp Gln Gln Met Glu His Leu Ala Gly Ile
 435 440 445
 Glu Ser Asp Pro Val Val Phe Thr Ile Leu Phe Asp Ile Ala Ile Lys
 450 455 460
 Ala Ser Gln Phe Thr Val Ala Asp Arg Leu Leu Glu Glu Met Ser Lys
 465 470 475 480
 Arg Gly Ile Glu Phe Arg Arg Ala Gly Lys Val Ser Lys Ile Tyr Tyr
 485 490 495
 Tyr Gly Met Leu Arg Asp Val Asn Gly Ile His Arg Ala Phe Asp Glu
 500 505 510
 Phe Leu Ala Ala Gly Glu Ile Val Asp Thr Ala Val Leu Asn Cys Leu
 515 520 525
 Met Thr Ser Phe Ile Arg Ala Gly Lys Ile Arg Ile Ala Glu Ser Leu
 530 535 540
 Tyr Gln Arg Met Met Gln Ala Gln Ala Ala Arg Pro Ala Gly Asp
 545 550 555 560
 Thr Asn His Lys Gly Val Ser Thr His Gln Pro Ala Leu Ala Ser Glu
 565 570 575

Leu Val Leu Tyr Arg Lys Ala Ala Lys Glu Leu Asn Arg Ala Phe Glu
 580 585 590
 Met Ala Ala Arg Ile Lys Asn Thr Leu Pro Ala His His Arg Ala Leu
 595 600 605
 Gln Glu Ser Ile Pro Met Ser Pro Asp Thr Arg Thr Phe His Ile Phe
 610 615 620
 Leu Ser Tyr His Ala Ile His Ser Gly Asn Leu Gln Ala Phe Ser Lys
 625 630 635 640
 Ile Val Glu Asp Met Glu Lys Thr Phe Thr Ile Pro Pro Arg Gly Met
 645 650 655
 Ile Tyr Leu Met Leu Phe Glu Gly Phe Ala Arg His Gly Arg Lys Lys
 660 665 670
 Lys Gly Trp Thr Ala Asp Lys Leu Gln Ile Ala Trp Arg Ser Tyr Val
 675 680 685
 Arg Ala Leu Tyr Glu Ser Arg Thr Lys Asn Glu Trp Arg Leu Leu Ala
 690 695 700
 Phe Ile Asp Pro Ala Leu Thr Trp Glu Asn Pro Ile Lys Gly
 705 710 715

<210> 31625

<211> 67

<212> PRT

<213> A.fumigatus

<400> 31625

Lys Met Gln Val Leu Gln Glu Gln Ser Ser Lys Arg Gly Ile Ile Asn
 1 5 10 15
 Tyr Ser Leu Ala Gly Glu Ser Phe Asn Ser Ser Leu Asn Tyr Ser Lys
 20 25 30
 Asp Ile Asn Cys Ile Cys Leu Phe Ser Pro Arg Leu Leu Glu Leu Asp
 35 40 45
 Ala Val Pro Asn Leu Ala Val Leu Pro Ser Thr Phe Pro Ser Arg Tyr
 50 55 60
 Ser Leu Pro
 65

<210> 31626

<211> 439

<212> PRT

<213> A.fumigatus

<400> 31626

Cys Glu Arg Ala Ala Lys Glu Gln Ala Lys Gln Glu Ala Phe Glu Arg
 1 5 10 15
 Ala Tyr Ala Leu Ala Gly Leu Thr Glu Glu Leu Glu Val Leu Lys Gly
 20 25 30
 Arg Leu Arg Asn Val Glu Ala Asn Arg Arg Ser Asp Arg Leu Glu Ala
 35 40 45
 Arg Ala Lys Glu Met Ser Asn Glu Asn Ile Gly Arg Leu Ser Leu Glu
 50 55 60
 Glu Gly Asp Leu Ala Phe Met Leu Thr Pro Ala Pro Arg Arg Pro Lys
 65 70 75 80
 Arg Pro Ala Asp Asp Ser Thr Gln Ser Pro Leu Ala Glu Ser Thr Asp
 85 90 95
 Gln Pro Thr Ala Gln Asp Thr Pro Pro Lys Arg Leu Arg Leu Ser Asp
 100 105 110

Pro Gly Ser Val Trp Ile Ala Cys Ser Thr Asp Ser Val Val Ser Met
1 5 10 15

Lys Ser Glu Leu Leu Lys Phe Leu Val Thr Leu Arg Ala Pro His Ser
 20 25 30
 Arg Asn Ala Ala Gln Lys Val Phe Arg Lys Ile Ser Val Leu Leu Asn
 35 40 45
 Arg Ser Ala Gln His Asn Ala Ser Gln Ala Ile Tyr Leu Lys Ala Thr
 50 55 60
 Gln Arg Asp Ala Arg Xaa Tyr Thr Ile Leu Arg Lys Gly Leu His His
 65 70 75 80
 Ile Ser His Asp Asn Thr Ala Ser Gly Glu Asp Glu Asp Ser Asp Ala
 85 90 95
 Ala Ser Thr Tyr Ser Ser Ser Pro Val Val Glu Pro Leu Ser Trp Thr
 100 105 110
 Arg Xaa Ala Tyr Thr Ser Phe Ile Trp Trp Ala Ser Ala Gly Glu Lys
 115 120 125
 Arg Asp Gly Leu Thr Glu Glu Glu Glu Glu Arg Gln Ile Glu Gln
 130 135 140
 Asp Thr Arg Leu Leu Ala Ser Leu Glu Ala Ile Pro Thr Pro Pro Ser
 145 150 155 160
 Gly Ser Leu Gly Arg His Ser Met Gln Ala Glu Asp Ala Ser Gln Pro
 165 170 175
 Pro Glu Ile Ala Leu Val Ser Tyr Phe Arg Arg Leu Thr Thr Gln Leu
 180 185 190
 Phe Val Thr Leu Ser Asp Val Ile Ala Arg Gln Asp Gly Arg Asp Gly
 195 200 205
 Glu Gln Asp Ala Asp Ile Gly Ala Pro Tyr Glu Asp Glu Ser Glu Glu
 210 215 220
 Ala Asp Ala Glu Pro Ser Ile Ser Val Gly Arg Glu Val Ser Gln Gly
 225 230 235 240
 Asp Asp Ser Arg Arg Pro Leu Leu Pro Ser Gly Ala Lys Ser Ser Pro
 245 250 255
 Glu Asp Asp Glu Leu Val Thr Ile Thr Ser Glu Asp Met Thr Glu Met
 260 265 270
 Gly Leu Asp Val Trp Ser Ala Ser Asp Arg Ile Phe Val Glu Glu Leu
 275 280 285
 Val Arg Ser Trp Trp Gly Arg Lys Ala Tyr Val Asp Thr Ala Arg Ile
 290 295 300
 Lys Cys Cys Gly Ile Ser Ile Ile
 305 310

<210> 31628

<211> 107

<212> PRT

<213> A.fumigatus

<400> 31628

Arg Gly Thr Phe His Arg Val Val Lys Ile Leu Ala Thr Val Ala Phe
 1 5 10 15
 Tyr Phe Ala Lys Thr Arg Phe Met Pro Arg Val Gln Asn Asp Lys Met
 20 25 30
 Phe Arg Trp Asp Tyr Asp Tyr Val Glu Tyr Gly Asp Ser Ala Leu Asp
 35 40 45
 Tyr Gly Tyr Gly Pro Ala Ser Phe Glu Gly Glu Phe Asn Leu Asp Ser
 50 55 60
 Asp Glu Trp Thr Val Gly Ser Ser Ser Ser Ile Ser Ser Gly Ser Leu
 65 70 75 80
 Ser Pro Val Asp Asp His Tyr Ser Trp Glu Gly Glu Thr Leu Ala Ser

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Pro Ala Thr Asp Ile Glu Ser Gly Arg His Phe
 85 90 95
 100 105

<210> 31629
 <211> 69
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (6)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31629
 Ser Glu Lys Ser Phe Xaa Met Arg Thr Thr Tyr Pro Val Leu Gly Pro
 1 5 10 15
 Lys Ile His His Glu Val His Val Gln Asn Cys Gln Ala Ser Met Ala
 20 25 30
 Lys Ser Asp Leu Ala Tyr Leu Asn Thr Phe Arg Arg Leu Gln Val Leu
 35 40 45
 Pro Arg Ile Asn Gln Thr Thr Val Arg Leu Glu Pro Ser Phe Lys Leu
 50 55 60
 Arg Pro Phe Arg Lys
 65

<210> 31630
 <211> 129
 <212> PRT
 <213> A.fumigatus

<400> 31630
 Pro Ser Met Ser Gly Ser Ile Leu Ala Leu Thr Leu Tyr Leu Phe Lys
 1 5 10 15
 Gly Tyr Trp Met Pro Tyr Glu Ala Ala Lys Ala Val Ala Ala Thr Phe
 20 25 30
 Cys Trp Lys Ile Arg His Ala Leu Thr Pro Leu Phe Gly Leu Asp Phe
 35 40 45
 Pro Ser Met Cys Ile His Pro Gln Asp Arg Gly Arg Phe Gly Arg Met
 50 55 60
 Val Ile Asp Pro Ala Ile Val Arg Lys Ala Thr Glu Thr Ala Asn Tyr
 65 70 75 80
 Tyr Arg Ile Leu Glu Leu Gln Ser Pro Ser Tyr Ser Ser Leu His Leu
 85 90 95
 Thr Arg Thr Gly Gly Lys Phe Arg Pro Asn Ser Thr Gly Ser Ser Gly
 100 105 110
 Phe Val Lys Arg Leu Ile Pro Arg Ser His Glu His Arg Tyr Ser Gly
 115 120 125
 Glu

<210> 31631
 <211> 187
 <212> PRT
 <213> A.fumigatus

<400> 31631

Asn Ala Val Tyr Met Ala Ser Ile Ala Ser Leu Leu Asn Pro Leu Pro
 1 5 10 15
 Gly Pro Ser Gln Leu Ser Ser Pro Thr Arg Thr Leu Ala Ser Ser Ala
 20 25 30
 Ala Ser Met Ala Ser Asn Thr Pro Arg Pro Lys Arg Pro Lys Val Ala
 35 40 45
 Lys Asp Ala Ala Ile Phe Thr Lys Ala Lys Pro Arg Gly Glu Val Arg
 50 55 60
 Tyr Pro Pro Cys Glu Glu Arg Asp Glu Glu Leu Ala Arg Met His Arg
 65 70 75 80
 Glu Phe Arg Ile His Pro Met Gly Asp Ile Ser Glu Tyr Ala Arg His
 85 90 95
 Ile Pro Tyr Asn Ser Asp Lys Lys Ser Phe Gln Glu Arg Thr Gly Arg
 100 105 110
 Glu Ser Phe Glu Gly Glu Ser His Ser Glu Gln His Thr Thr Tyr Pro
 115 120 125
 Arg Gly Val Tyr Ala Tyr Lys Ile Ser Ile Val Phe Gln Tyr Thr Phe
 130 135 140
 Lys Leu Pro Gly Asp Glu Lys Glu Trp Ile Val Met Trp Asp Tyr Asn
 145 150 155 160
 Ile Gly Leu Val Arg Thr Thr His Leu Phe Lys Cys Asn Asp Tyr Ser
 165 170 175
 Lys Val Tyr Ser Thr Thr Ser Ala Ala Ser Ser
 180 185

<210> 31632

<211> 203

<212> PRT

<213> A.fumigatus

<400> 31632

Ser Asp Ser Tyr Pro Asp Leu Met Ser Thr Asp Thr Gln Glu Ser Arg
 1 5 10 15
 Thr Gly Tyr Gly Ser Ser Ser Pro Glu Cys His Gly Asp Val Tyr Cys
 20 25 30
 Val Ser Pro Val Ser Pro Phe Arg Asn Ser Phe Thr Pro Val Asn Thr
 35 40 45
 Pro Arg Ser Ser Glu Val Ile Gly Ser Lys Leu Leu Ser Pro Arg Ala
 50 55 60
 Ile Ala Ala Thr Thr Ala Pro Met Pro Asp Arg Glu His Thr Ala Gly
 65 70 75 80
 Ser Glu Glu Asp Ser Gly Ser Asp Glu Thr Gly Ser Ser Thr Met Tyr
 85 90 95
 Thr Glu Ser Thr Ser Thr Thr Thr Glu Val Leu Ser Val Asp Leu Asp
 100 105 110
 Ala Asp Asp Asp Asp Asp Glu Asp Tyr Arg Glu Lys Ser Asp Arg
 115 120 125
 Ser Asp Arg Gly Ser Val Asn Ser Ser Ile Pro Asp His Asn Arg Lys
 130 135 140
 Ile Glu Thr Arg Ser Arg Gly Lys His Ser Ser Ala Leu Phe Ala Arg
 145 150 155 160
 Glu Val Lys Ala Ala His Ala Leu Leu Ser Leu His Met Gln Glu Ala
 165 170 175
 Met Gly Ser Asp Gly Asp Glu Glu Pro Leu Leu Met Ala Ser Arg Gly
 180 185 190

12242

Leu Asn Ser Arg Lys Arg Arg Arg Ala Ser Ala
195 200

<210> 31633
<211> 126
<212> PRT
<213> A.fumigatus

<400> 31633
Val Thr Ala Ser Gln Leu Ile Asn Phe Ser Val Val Thr Phe Thr Tyr
1 5 10 15
Thr Arg Phe Arg Lys Ala Met Ile Ala Gln Gly Ile Pro Arg Glu Ser
20 25 30
Leu Pro Tyr Lys Ser Trp Trp Gln Pro Tyr Thr Ala Tyr Val Ala Leu
35 40 45
Val Ser Thr Thr Val Met Thr Phe Val Gly Gly Tyr Thr Val Phe Leu
50 55 60
Pro Gly Asn Trp Asp Ile Pro Thr Phe Leu Phe Ser Tyr Thr Met Ile
65 70 75 80
Gly Val Phe Pro Val Leu Tyr Phe Gly Trp Lys Ile Val His Arg Thr
85 90 95
Gln Val Lys Lys Pro Glu Glu Val Asp Leu Leu Thr Gly Leu Asp Glu
100 105 110
Ile Asp Glu Tyr Glu Arg His Tyr Val Pro Glu Lys Pro Arg
115 120 125

<210> 31634
<211> 105
<212> PRT
<213> A.fumigatus

<400> 31634
Ser Val Leu Asn Thr Gly Cys Leu Leu Gly Leu Ala Glu Met Val Ile
1 5 10 15
Tyr Leu Pro Ile Ser Ser Pro Phe Ile Arg Phe Ala Gly Arg Tyr Val
20 25 30
Asp Glu Ala Phe Gly Val Ala Ala Gly Tyr Asn Phe Phe Val Phe Glu
35 40 45
Ala Ala Leu Val Pro Phe Glu Ile Thr Ala Cys Asn Met Ile Ile Asn
50 55 60
Tyr Trp Ser Asp Val Ile Pro Val Ser Gly Val Ile Val Ile Val Leu
65 70 75 80
Val Leu Tyr Met Tyr Val Thr Ser Ser Glu Arg Gln Lys Ala Leu Pro
85 90 95
Ile Trp Ser Arg Leu Asn Ile Asp Phe
100 105

<210> 31635
<211> 273
<212> PRT
<213> A.fumigatus

<400> 31635
Ile Asp Arg Leu Leu Asn Val Phe Ala Val Gln Trp Tyr Gly Glu Ser
1 5 10 15
Glu Phe Trp Leu Ala Leu Ser Lys Val Leu Leu Ser Ile Gly Leu Ile


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<210> 31636
<211> 120
<212> PRT
<213> A.fumigatus
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<400> 31636
Ile Met Ser Arg Pro Asp Pro Asp Thr Ser Val His Gln Thr Ser Leu
1          5          10          15
Pro Thr Ala Ile Ser Ser Asp Arg Ser Ser His Leu Ala Asp Asp Phe
          20          25          30
Asn Leu Ala Thr Ala Asn Leu Thr Lys Arg Asn Gly Cys Pro Ile Thr
          35          40          45
Tyr Ser Glu Lys Ala Thr Val Val Glu Asp Gly Glu Glu Ser Ile Gly
          50          55          60
Gly Thr Leu Ser Lys Pro Thr Phe Asp His Thr His Arg Lys Leu Lys
65          70          75          80
Pro Arg His Ile Gln Leu Ile Gly Ile Gly Gly Thr Ile Gly Thr Ala
          85          90          95
Leu Tyr Val Gln Val Gly Lys Ser Leu Met Lys Gly Gly Pro Gly Ser
          100          105          110
Leu Phe Leu Ala Phe Ser Ile Trp
          115          120

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<210> 31637
 <211> 142
 <212> PRT
 <213> A.fumigatus

<400> 31637
 Val Ser Leu Tyr Ser Ala Pro Val Ser Trp His Ser Ala Leu Tyr Thr
 1 5 10 15
 Pro Pro Met His Ser Thr Arg Gln Ile Tyr Leu Pro Thr Glu Ile Val
 20 25 30
 Val Gln Ile Val Arg Phe Val Ala Thr Asp Glu Ala His Arg Gln Glu
 35 40 45
 Ala Leu Tyr Ala Cys Cys Leu Val Ser Arg Gln Trp Tyr Ser Ala Ala
 50 55 60
 Val Ser Leu Leu Tyr Glu Lys Pro Arg Leu His Ile Gly Asn Ser Phe
 65 70 75 80
 Gln Gln Phe Val Ser Thr Cys Ser Gly Val Gly Gly Arg Arg Asn Lys
 85 90 95
 Leu Asn Leu Gly Ser Phe Val Arg Arg Leu Asp Leu Ser Arg Leu Val
 100 105 110
 His His Ser Ser Asn Ser Val Thr Ala Arg Leu Leu Gly Arg Val Lys
 115 120 125
 Glu Asn Leu Glu Val Phe Val Ala Pro Arg Val Ser Phe Ala
 130 135 140

<210> 31638
 <211> 266
 <212> PRT
 <213> A.fumigatus

 <220>
 <221> UNSURE
 <222> (200), (255), (256), (263), (264)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31638
 Pro Ser Ile Asp Gly Val Leu Leu Arg Ser Ser Lys Pro Ile Pro Gly
 1 5 10 15
 Ala Ala Glu Ser Leu Ala Leu Leu Lys Asp Gln Gly Ile Pro Phe Ile
 20 25 30
 Leu Leu Thr Asn Gly Gly Gly Lys His Glu Thr Glu Arg Val Ala Glu
 35 40 45
 Ile Ser Glu Lys Leu Lys Val Pro Leu Asp Ala Ser Val Ile Ile Gln
 50 55 60
 Ser His Ser Pro Phe Ala Glu Leu Val Lys Gly Pro Asp Glu His Ser
 65 70 75 80
 Ser Leu Glu Asp Lys Arg Val Leu Val Val Gly Gly Asp Gly Asp Gly
 85 90 95
 Cys Arg Arg Val Ala Glu Gln Tyr Gly Phe Lys Asn Val Leu Thr Pro
 100 105 110
 Gly Asp Ile Phe Met Ala Asn Pro Ser Ile Trp Pro Phe Ser Lys Gly
 115 120 125
 Phe Lys Asp Tyr Tyr Glu Lys Phe Ala Arg Pro Ile Pro Asn Pro Leu
 130 135 140
 Asp Pro Arg Asp Pro Thr Arg Arg Leu Lys Ile Asp Ala Ile Phe Val

12245

145 150 155 160
 Phe Asn Asp Ser Arg Asp Trp Gly Leu Asp Ala His Leu Ile Ile Asp
 165 170 175
 Leu Leu Leu Ser Ser Gln Gly Val Leu Gly Thr Ile Ser Asp Lys Asn
 180 185 190
 Gly Arg Ala Asp Leu Pro Asn Xaa Gly Phe Leu Gln Asp Gly Gln Pro
 195 200 205
 His Leu Tyr Phe Ser Asn Pro His Leu Trp Trp Ala Ala Ala Tyr His
 210 215 220
 Leu Pro Arg Leu Gly Gln Gly Gly Phe Arg Glu Ala Leu Glu Ser Asn
 225 230 235 240
 Cys Gly Ala Asn Tyr Arg Arg Ala Ile Lys Cys Val Lys Leu Xaa Xaa
 245 250 255
 Lys Ile Phe Gly Asn His Xaa Xaa Glu Leu
 260 265

<210> 31639

<211> 95

<212> PRT

<213> A.fumigatus

<400> 31639

Ile Ser Asn Ile Phe Arg Ser Asp His Gln Ala Ile Gln Ala Ser Gln
 1 5 10 15
 Ala Met Ser Glu Arg Gly Ser Phe Arg Gly Gly Arg Ser Arg Gly Gly
 20 25 30
 Gly His Asp Arg Ser Gly Gly Arg Gly Gly Gly His Ser Ser Gln His
 35 40 45
 Arg Gly Gly Gly Ala Gly Gly Gly Ala Gln Gln Gln Gln Glu Lys Pro
 50 55 60
 Lys Lys Glu Asn Ile Leu Asp Leu Ser Lys Tyr Met Asp Lys Glu Val
 65 70 75 80
 Lys Val Lys Phe Asn Gly Gly Arg Glu Gly Glu Phe Val Thr Asn
 85 90 95

<210> 31640

<211> 86

<212> PRT

<213> A.fumigatus

<400> 31640

Ser Leu Met Glu Asp Glu Arg Val Ser Leu Ser Pro Thr Asp Cys Ala
 1 5 10 15
 Ser Cys Leu Leu Lys Ser Ile Leu Val Ser Gly Met Leu Lys Gly Tyr
 20 25 30
 Asp Gln Leu Met Asn Leu Val Leu Asp Asp Val Lys Glu Ser Met Arg
 35 40 45
 Gly Lys Ser Leu Asn Asp Ile Thr Lys Leu Asp Glu Val Ser Asn Ser
 50 55 60
 Ala Ile Gln Met Met Lys Glu Met Lys Leu Pro Ala Pro Leu Val Ser
 65 70 75 80
 Ser Ser Pro Ala Ala Leu
 85

<210> 31641

<211> 140

<212> PRT

<213> A.fumigatus

<400> 31641

Gln	Ile	Cys	Phe	Cys	Ser	Asp	Ala	Tyr	Arg	Asn	Glu	Asp	Tyr	Asp	Arg
1				5					10					15	
Lys	Ile	Leu	Glu	Glu	Met	Gly	Glu	Leu	Gly	Leu	Leu	Gly	Ala	Ser	Ile
			20					25					30		
Glu	Gly	Tyr	Gly	Cys	Ala	Gly	Ala	Ser	Thr	Val	Ala	Ser	Gly	Leu	Ile
		35				40					45				
Thr	Lys	Glu	Val	Glu	Arg	Val	Asp	Ser	Gly	Tyr	Arg	Ser	Gly	Met	Ser
	50					55				60					
Val	Gln	Ser	Ser	Leu	Ala	Met	Thr	Gly	Ile	Asn	Glu	Phe	Gly	Thr	Gln
65					70					75					80
Glu	Gln	Lys	Asp	Arg	Phe	Leu	Pro	Gln	Leu	Ala	Lys	Gly	Lys	Leu	Ala
			85					90						95	
Gly	Cys	Phe	Gly	Leu	Thr	Glu	Pro	Asn	His	Gly	Ser	Asp	Pro	Gly	Ser
			100					105					110		
Met	Glu	Thr	Thr	Ala	Arg	Glu	His	Pro	Thr	Lys	Lys	Gly	Tyr	Tyr	Leu
		115					120						125		
Ser	Ser	Ser	Arg	Arg	Trp	Gln	Asp	Pro	Arg	Leu	Gly				
		130				135					140				

<210> 31642

<211> 140

<212> PRT

<213> A.fumigatus

<400> 31642

Asn	Arg	Tyr	Ser	Val	Leu	Ile	Cys	Phe	Gly	Leu	Leu	His	Ser	Pro	Ser
1				5					10					15	
Leu	Leu	Ser	Arg	Cys	Phe	Leu	Ser	Phe	Leu	Ser	Val	Met	Asn	Arg	Ser
			20					25					30		
Ile	Phe	Arg	Ala	Ala	Ser	Arg	His	Leu	Arg	Ser	Ala	Asn	Arg	Leu	Tyr
		35				40						45			
Lys	Ala	Pro	Val	Val	Ser	His	Asn	Thr	Ser	Val	Arg	Ala	Tyr	Ser	Thr
		50				55					60				
Val	Phe	Asn	Trp	Glu	Asp	Pro	Leu	Ala	Ala	Ser	Glu	Leu	Tyr	Thr	Asp
65					70					75					80
Glu	Glu	Leu	Ala	Ile	Arg	Asp	Thr	Ala	Arg	Gln	Tyr	Cys	Gln	Glu	Arg
			85					90						95	
Leu	Leu	Pro	Arg	Val	Leu	Gly	Lys	Pro	Tyr	Phe	Gly	Thr	Ile	Cys	Glu
		100						105					110		
Asn	Ser	Ala	Asp	Arg	Phe	Ala	Phe	Val	Gln	Met	Pro	Ile	Glu	Thr	Lys
		115					120						125		
Thr	Met	Thr	Val	Lys	Ser	Trp	Arg	Lys	Trp	Gly	Ser				
		130				135					140				

<210> 31643

<211> 72

<212> PRT

<213> A.fumigatus

<400> 31643

Phe	Arg	Arg	Arg	Asp	Asp	Tyr	Pro	Gly	Ser	Ser	Arg	Arg	Phe	Thr	Thr
1					5				10					15	

12247

Tyr Tyr Asp Met Leu Ser Glu Asn Arg Val Ala Arg Tyr Ser Thr Arg
 20 25 30
 His Ser Gly Ser Gly Trp Leu Asp Arg Met Val Phe Gln Met His Trp
 35 40 45
 Asp Leu Asp Phe Thr Gly Val Ser Phe Thr Glu Phe Leu Asp Met Gly
 50 55 60
 Phe Thr Met Val Val Thr Arg Phe
 65 70

<210> 31644
 <211> 191
 <212> PRT
 <213> A.fumigatus

<400> 31644
 Gln Ala Ile Gln Ala Ala Gly Ala Thr Ser Leu Leu Phe Val Tyr Ser
 1 5 10 15
 Leu Asp Tyr Ala Arg Thr Arg Leu Ala Asn Asp Ala Lys Ser Ala Lys
 20 25 30
 Gly Gly Gly Glu Arg Gln Phe Asn Gly Leu Ile Asp Val Tyr Arg Lys
 35 40 45
 Thr Leu Ala Ser Asp Gly Ile Ala Gly Leu Tyr Arg Gly Phe Gly Pro
 50 55 60
 Ser Val Leu Gly Ile Val Val Tyr Arg Gly Leu Tyr Phe Gly Met Tyr
 65 70 75 80
 Asp Ser Ile Lys Pro Val Val Leu Val Gly Ser Leu Glu Gly Ser Phe
 85 90 95
 Leu Ala Ser Phe Leu Leu Gly Trp Thr Val Thr Thr Gly Ala Gly Ile
 100 105 110
 Ala Ser Tyr Pro Leu Asp Thr Ile Arg Arg Arg Met Met Thr Ser
 115 120 125
 Gly Glu Ala Val Lys Tyr Lys Ser Ser Leu Asp Ala Ala Arg Gln Ile
 130 135 140
 Ile Ala Lys Glu Gly Val Lys Ser Leu Phe Lys Gly Ala Gly Ala Asn
 145 150 155 160
 Ile Leu Arg Gly Val Ala Gly Ala Gly Val Leu Ser Ile Tyr Asp Gln
 165 170 175
 Val Gln Leu Ile Leu Phe Gly Lys Lys Phe Lys Gly Gly Ser Gly
 180 185 190

<210> 31645
 <211> 291
 <212> PRT
 <213> A.fumigatus

<400> 31645
 Arg Arg Ser Ala Leu Leu Ser Ile Asn Thr Arg Asn Ser Ser Pro Val
 1 5 10 15
 Glu Ile Ala Gly Ile Leu Asp Tyr Asn Thr His Leu Asn Met Thr Thr
 20 25 30
 Thr Ala Pro Pro Asp Ala Thr Ala Pro Ser Thr Ser Ser Glu Gln Asp
 35 40 45
 Glu Pro Ala Pro Ser Glu Thr Ala Ser Val Ser Ala Thr Ala Thr Ala
 50 55 60
 Leu Pro Tyr Ser Pro Val His Ala Thr Ala Gln Ala Gln Pro Gly Gly
 65 70 75 80

Thr Thr Val Met Pro Ala Arg Ser Gly Ser Asp Gly Pro Pro Leu Pro
 85 90 95
 Thr Pro Thr Lys Ser Ile Ala Thr Pro Ala Thr Lys Thr Ser Thr Ser
 100 105 110
 Pro Pro Pro Pro Gln Pro Gly Ala Arg Pro Asp Pro Gly Ile Pro Ala
 115 120 125
 Pro Thr Thr Leu Pro Val Leu Ala Ala Ser Ser Ala Pro Ala Pro Val
 130 135 140
 Pro Ser Pro Gly Pro Ala Pro Gln Ala Gln Pro Glu Pro Pro Pro Thr
 145 150 155 160
 Pro Ser Ala Thr Ala Thr Gly Ala Thr Thr Thr Thr Thr Pro Ala Asn
 165 170 175
 Pro Met Pro Gly His Gly Tyr Gly Tyr Ser Pro Ala Ala Gly Arg Tyr
 180 185 190
 Ser Ser Glu Phe Thr His Pro Ala Gln Gly Gln Gln Phe His Pro Arg
 195 200 205
 Ala His Pro His Ala Gln Pro His Pro Asn Ser Thr Ser Thr Pro Tyr
 210 215 220
 Ala Ser Leu Tyr Gln Pro Pro Asp Thr Ser Ser Gln Leu Pro Leu Tyr
 225 230 235 240
 Gln Thr Gln Gly Pro Gly Ala Asp Glu Phe Asp Ser Ala His Gly Asp
 245 250 255
 Gly Gly Phe Leu Ala Ser Ala Lys Ser Trp Met Ala Ser Ala Gly Thr
 260 265 270
 Lys Leu Ala Glu Val Glu Ala Glu Val Trp Lys Arg Ile Asn Glu Ala
 275 280 285
 His Asp Lys
 290

<210> 31646

<211> 405

<212> PRT

<213> A.fumigatus

<400> 31646

Arg Pro Ala Phe Leu Gly Ser Asn Val Val Tyr Asp Cys Pro Asn Ser
 1 5 10 15
 Lys Leu Met Glu Gln Lys Lys Phe Ile Lys Tyr Gly Leu Thr Gln Ser
 20 25 30
 Ala Leu Glu Ser His Val Pro Leu Ile Glu Lys Glu Val Leu Asp Tyr
 35 40 45
 Leu Arg Asp Ser Pro Asn Phe Gln Gly Ser Ser Gly Arg Met Asp Ile
 50 55 60
 Ser Ala Ala Met Ala Glu Ile Thr Ile Phe Thr Ala Ala Arg Ala Leu
 65 70 75 80
 Gln Gly Gln Glu Val Arg Ser Lys Leu Thr Ala Glu Phe Ala Asp Leu
 85 90 95
 Tyr His Asp Leu Asp Lys Gly Phe Thr Pro Ile Asn Phe Met Leu Pro
 100 105 110
 Trp Ala Pro Leu Pro His Asn Lys Arg Asp Ala Ala His Ala Arg
 115 120 125
 Met Arg Ser Ile Tyr Val Asp Ile Ile Asn Gln Arg Arg Leu Asp Gly
 130 135 140
 Asp Lys Asp Ser Gln Lys Ser Asp Met Ile Trp Asn Leu Met Asn Cys
 145 150 155 160
 Thr Tyr Lys Asn Gly Gln Gln Val Pro Asp Lys Glu Ile Ala His Met

12249

165 170 175
 Met Ile Thr Leu Leu Met Ala Gly Gln His Ser Ser Ser Ser Ile Ser
 180 185 190
 Ala Trp Ile Met Leu Arg Leu Ala Ser Gln Pro Lys Val Leu Glu Glu
 195 200 205
 Leu Tyr Gln Glu Gln Leu Ala Asn Leu Gly Pro Ala Gly Pro Asp Gly
 210 215 220
 Ser Leu Pro Pro Leu Gln Tyr Lys Asp Leu Asp Lys Leu Pro Phe His
 225 230 235 240
 Gln His Val Ile Arg Glu Thr Leu Arg Ile His Ser Ser Ile His Ser
 245 250 255
 Ile Met Arg Lys Val Lys Ser Pro Leu Pro Val Pro Gly Thr Pro Tyr
 260 265 270
 Met Ile Pro Pro Gly Arg Val Leu Leu Ala Ser Pro Gly Val Thr Ala
 275 280 285
 Leu Ser Asp Glu His Phe Pro Asn Ala Gly Cys Trp Asp Pro His Arg
 290 295 300
 Trp Glu Asn Gln Ala Thr Lys Glu Gln Glu Asn Asp Glu Val Val Asp
 305 310 315 320
 Tyr Gly Tyr Gly Ala Val Ser Lys Gly Thr Ser Ser Pro Tyr Leu Pro
 325 330 335
 Phe Gly Ala Gly Arg His Arg Cys Ile Gly Glu Lys Phe Ala Tyr Val
 340 345 350
 Asn Leu Gly Val Ile Leu Ala Thr Ile Val Arg His Leu Arg Leu Phe
 355 360 365
 Asn Val Asp Gly Lys Lys Gly Val Pro Glu Thr Asp Tyr Ser Ser Leu
 370 375 380
 Phe Ser Gly Pro Met Lys Pro Ser Ile Ile Gly Trp Glu Lys Arg Ser
 385 390 395 400
 Lys Asn Thr Ser Lys
 405

<210> 31647

<211> 351

<212> PRT

<213> A.fumigatus

<400> 31647

Ser Thr Pro Thr Gly Pro Pro Met Asn Pro Asn Pro Gly Thr Met Ser
 1 5 10 15
 Pro Val Ser Val Asp Gly Ser Asp Trp Ser Gly Ile Asn Gln Tyr Gln
 20 25 30
 Lys Ser Asp Pro Pro Phe Ser Pro Thr Ser Ser Thr Arg Asn Asn Leu
 35 40 45
 Ala Thr Pro Pro Thr Ser Gly Thr Pro Ser Gly Leu Gly Pro Asn Asn
 50 55 60
 Ala Gly Ala Pro Asn Gly Ser Thr Asn Gly Val Ser Asp Pro Gly Asn
 65 70 75 80
 Pro Ser Pro Pro Ser Ser Val Ala Ala Arg Ser Ser Ser Gly Thr Leu
 85 90 95
 Ala Glu Asp Arg Ser Lys Arg Thr Lys Gln Met Glu Glu Val Leu Gly
 100 105 110
 Gln His Tyr Phe Ala Leu Arg Arg Phe Leu Asn Ala Ser Tyr Arg Asp
 115 120 125
 Glu Arg Ala Asn Ser Lys Ser Asn Lys Ala Arg Asp Lys Leu Leu Arg
 130 135 140

12250

Leu Ser Ala Thr Gln Phe Gln Glu Leu Ser Thr Asp Val Tyr Asp Glu
 145 150 155 160
 Leu Leu Arg Arg Gln Gln Ala Met Pro Ser Pro Gly Arg Pro Gly Pro
 165 170 175
 Pro Arg Pro Asp Val Pro Pro Phe Leu Pro Pro Arg Glu Asp Phe His
 180 185 190
 Glu Lys Arg Asn Gln Ala Arg Gln Lys Leu Ala Ser Leu Gln His Gln
 195 200 205
 Arg Phe Arg Asp Leu Ala Thr Asp Val Phe Cys Glu Leu Glu Arg Arg
 210 215 220
 Phe Pro Gln Phe Pro Ala Arg Glu Ser Arg Arg Ala Ser Pro Ala Pro
 225 230 235 240
 Ser Leu Arg Gly Arg Pro Ser Asn Gly Tyr Pro Pro Asn Gly Phe Gly
 245 250 255
 Pro Asn Gly Tyr Pro Pro Pro Pro Gly Ser Arg Arg Ser Gln Ser Arg
 260 265 270
 Gly Pro Pro Asn Arg Met Gly Arg Gly Tyr Pro Ser Gly Gly Pro Pro
 275 280 285
 Gly Ser Pro Met Gly Gly Tyr Pro Pro Arg Gln Gly Ser Leu Gly Gly
 290 295 300
 Pro Pro Ser Val Asn Gly Asp Val Gly Pro Gln Ala Lys Ser Phe Gln
 305 310 315 320
 Ser Asn Thr Ile Val Pro Asn Lys Ser Ile Met Val Glu Asp Asp Asp
 325 330 335
 Asp Leu His His Glu Ala Ala Gly Ile Arg Ala Lys Asn Gly Gly
 340 345 350

<210> 31648

<211> 94

<212> PRT

<213> A.fumigatus

<400> 31648

Leu Arg Thr Ser Ser Ala Asn Trp Asn Asp Ala Ser Pro Ser Phe Arg
 1 5 10 15
 His Gly Asn Leu Ala Glu Pro Ala Pro Pro Pro Ala Cys Val Asp Ala
 20 25 30
 His Gln Met Ala Thr Leu Gln Met Val Ser Val Leu Thr Val Ile Leu
 35 40 45
 Arg Leu Pro Ala Val Gly Ala Leu Ser Leu Glu Ala Leu Gln Thr Ala
 50 55 60
 Trp Glu Gly Ala Ile Pro Pro Ala Val Leu Gln Ala Val Gln Trp Val
 65 70 75 80
 Gly Ile Leu Pro Ala Lys Gly Pro Trp Ala Gly Arg Arg Arg
 85 90

<210> 31649

<211> 245

<212> PRT

<213> A.fumigatus

<400> 31649

Val Val Val Asp Asp Lys Arg Asp Leu Leu Asn Val Asp Thr Thr Ser
 1 5 10 15
 Pro Asn Val Gly Arg Asp Glu Asp Thr Arg Val Ala Leu Ala Glu Val
 20 25 30

12251

Leu His Asp Thr Val Thr Leu Leu Leu Gly His Phe Ala Val His Ala
 35 40 45
 Gly Tyr Cys Glu Val Gly Phe Ala His Leu Ile Ser Lys Pro Val Asp
 50 55 60
 Leu Pro Ala Gly Val Ala Glu Asp His Gly Leu Arg Asp Gly Gln Gly
 65 70 75 80
 Ile Val Glu Val Ala Lys Gly Ile Glu Leu Pro Leu Phe Phe Leu Asn
 85 90 95
 Ser Asp Glu Val Leu Phe Asp Ala Phe Gln Gly Gln Leu Val Thr Leu
 100 105 110
 Asp Gln Asn Ala Asp Gly Val Ser His Glu Phe Arg Arg His Val Gln
 115 120 125
 Asp Val Ile Gly Glu Ser Gly Gly Asn Asp Asn Asp Leu Cys Ser Gly
 130 135 140
 Arg Glu Val Ala Val Asp Val Val Asp Leu Phe Thr Lys Thr Ala Val
 145 150 155 160
 Gln Lys Phe Val Ser Leu Ile Lys Asn Gln His Leu Asp Met Pro Gly
 165 170 175
 Ala Gln Val Ala Ser Thr Asp His Val Arg Asn Ser Thr Arg Cys Thr
 180 185 190
 Arg Asn Asn Val Leu Ala Ile Val Gln Leu Ser Asn Val Leu Ala Asn
 195 200 205
 Ile Cys Ala Ser Asn Ala Ser Val Ala Leu Tyr Ile His Val Ile Ser
 210 215 220
 Gln Gly His Asn Asp Arg Leu Asn Leu Ser Arg Lys Phe Ala Ser Arg
 225 230 235 240
 Arg Lys Asp Gln Ser
 245

<210> 31650

<211> 174

<212> PRT

<213> A.fumigatus

<400> 31650

Ala Leu Arg Arg Val Leu Ser Arg Asp Ser Ser Ser Gly Thr Arg Ala
 1 5 10 15
 Ala Asn Ser Ser Cys Ala His Lys Leu Ser His Leu Gln Thr Lys Ile
 20 25 30
 Ser Gln Ala Asp Arg Ile Leu Tyr Lys Leu Pro Gly Thr Asp Lys Met
 35 40 45
 Ala Asp Gly Ile Asp Arg Arg Thr Asp Gly Met Arg Ile Met Glu Leu
 50 55 60
 Phe Glu Glu Ile Trp Ala Asn Gly Ala Asn Ser Asp Arg Leu Glu Phe
 65 70 75 80
 Ser Thr Ser Lys Glu Val Thr Val Ala Pro Thr Phe Glu Asp Met His
 85 90 95
 Leu Lys Glu Ser Leu Leu Arg Gly Ile Tyr Ala Tyr Gly Tyr Glu Ser
 100 105 110
 Pro Ser Ala Val Gln Ser Arg Ala Ile Val Gln Ile Cys Lys Gly Arg
 115 120 125
 Asp Thr Ile Ala Gln Ala Gln Ser Gly Thr Gly Lys Thr Ala Thr Phe
 130 135 140
 Ser Ile Ser Ile Leu Gln Val Ile Asp Thr Val Val Arg Glu Thr Gln
 145 150 155 160
 Gly Met Ser Leu Asn Thr Pro Pro Val Leu Val Lys Arg Ser

12252

165

170

<210> 31651
 <211> 286
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (285)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31651
 Leu Val Ser Ala Leu Val Leu Ser Pro Thr Arg Glu Leu Ala Thr Gln
 1 5 10 15
 Ile Gln Ser Val Ile Met Ala Leu Gly Asp Tyr Met Asn Val Gln Cys
 20 25 30
 His Ala Cys Ile Gly Gly Thr Asn Ile Gly Glu Asp Ile Arg Lys Leu
 35 40 45
 Asp Tyr Gly Gln His Val Val Ser Gly Thr Pro Gly Arg Val Ala Asp
 50 55 60
 Met Ile Arg Arg Arg His Leu Arg Thr Arg His Ile Lys Met Leu Val
 65 70 75 80
 Leu Asp Glu Ala Asp Glu Leu Leu Asn Arg Gly Phe Arg Glu Gln Ile
 85 90 95
 Tyr Asp Val Tyr Arg Tyr Leu Pro Pro Ala Thr Gln Val Val Val Val
 100 105 110
 Ser Ala Thr Leu Pro Tyr Asp Val Leu Asp Met Thr Thr Lys Phe Met
 115 120 125
 Thr Asp Pro Val Arg Val Leu Val Lys Arg Asp Glu Leu Thr Leu Glu
 130 135 140
 Gly Ile Lys Gln Tyr Phe Ile Ala Val Glu Lys Glu Glu Trp Lys Phe
 145 150 155 160
 Asp Thr Leu Cys Asp Leu Tyr Asp Thr Leu Thr Ile Thr Gln Ala Val
 165 170 175
 Ile Phe Cys Asn Thr Arg Arg Lys Val Asp Trp Leu Thr Asp Lys Met
 180 185 190
 Arg Glu Ala Asn Phe Thr Val Ser Ser Met His Gly Glu Met Pro Gln
 195 200 205
 Lys Glu Arg Asp Ser Ile Met Gln Asp Phe Arg Gln Gly Asn Ser Arg
 210 215 220
 Val Leu Ile Ser Thr Asp Val Trp Ala Arg Gly Ile Asp Val Gln Gln
 225 230 235 240
 Val Ser Leu Val Ile Asn Tyr Asp Leu Pro Thr Asn Arg Glu Asn Tyr
 245 250 255
 Ile His Arg Ile Gly Arg Ser Gly Arg Phe Gly Arg Lys Gly Val Ala
 260 265 270
 Ile Asn Phe Val Thr Ser Val Phe Val Arg Met Leu Xaa Asp
 275 280 285

<210> 31652
 <211> 133
 <212> PRT
 <213> A.fumigatus

<220>

<221> UNSURE

<222> (19), (37)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31652

Cys Ser Lys Cys Asn Thr Ser Ala Ala Thr Pro Thr Thr Ser Arg Lys
 1 5 10 15
 Gln His Xaa Ser Val Glu Pro Ser Ser Thr Ser Leu Gln Ser Thr Ser
 20 25 30
 Ala Ala Ala Arg Xaa Cys Pro Ser Thr Pro Ser Asp Thr Lys Pro Ala
 35 40 45
 Pro Ala Thr Val Ala Ala Gly Ser Ala Thr Arg Pro Ala Ala Pro Pro
 50 55 60
 Ala Ala Thr Ala Ala Thr Ala Ala Ala Pro Ala Thr Ala Ile Thr
 65 70 75 80
 Thr Gly Ala Thr Ala Arg Pro Ala Ala Thr Asn Asp Pro Ser Gly Ser
 85 90 95
 Ser Asn Glu Gly Pro Ala Asp Ser Glu Ser Ser Arg His Asn Asp Ala
 100 105 110
 Ala Glu Asp Gly His Glu Arg His Phe Asp Ser Gly Leu Ala His Phe
 115 120 125
 Cys Gly Ala Leu Glu
 130

<210> 31653

<211> 268

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (115), (133)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31653

Arg Leu Leu Asn Lys Pro Gln Cys Lys Arg Ile Arg Gly Met Arg Pro
 1 5 10 15
 Val Asn Val Gln Met His Leu Gln Gln Met Leu His Gly His Gln Asn
 20 25 30
 Ile Gln Gln Gln Gln Gln Gln Phe Phe Val Met Gln Gln Ala Gln Gln
 35 40 45
 Ala Leu Gln Ala His Gln Ala Gln Gln Ala Gln Gln Ala Gln Gln Asp
 50 55 60
 Gln Gln Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln Pro Gly Gln
 65 70 75 80
 His Thr Pro Gln Gln Arg His Ala Ala His Pro Gln Asn Met His Asp
 85 90 95
 Ala Gln Ser Val Thr Pro Gln Pro Gln Pro Pro Pro His Gln Gly Ser
 100 105 110
 Ser Thr Xaa Gln Ser Asn His Pro Gln Pro Pro Ser Ser Gln Pro Gln
 115 120 125
 Gln Gln Pro Gly Xaa Ala Pro Gln Pro His Leu Thr Pro Asn Pro Pro
 130 135 140
 Pro Gln Gln Leu Pro Gln Ala Gln Gln Pro Gly Gln Gln Pro His Gln
 145 150 155 160
 Gln Pro Gln Gln Pro Pro Gln Gln Gln Pro Gln Gln Gln Gln Ser Gln

12254

				165					170					175			
Gln	Gly	Gln	Pro	Gln	Gly	Gln	Gln	Gln	Gln	Met	Thr	Pro	Gln	Glu	Ala		
			180					185					190				
Gln	Met	Lys	Ala	Gln	Gln	Thr	Gln	Asn	Gln	Ala	Ala	Ile	Met	Met	Gln		
		195					200					205					
Gln	Arg	Met	Gly	Met	Lys	Gly	Thr	Ser	Ile	Leu	Ala	Leu	Leu	Thr	Phe		
	210					215					220						
Ala	Glu	His	Leu	Ser	Asn	Phe	Thr	Val	Arg	Arg	Thr	Leu	Ser	Gln	His		
225					230					235					240		
Ala	Asn	Ala	Tyr	Arg	Asp	Cys	Ala	Asn	Leu	Ile	Thr	Glu	Pro	Arg	Arg		
			245					250						255			
Gly	Ser	Gly	Phe	Ala	Val	Leu	Ala	Ser	Ile	Cys	Arg						
			260					265									

<210> 31654

<211> 129

<212> PRT

<213> A.fumigatus

<400> 31654

Gln	Ser	Arg	Gly	Glu	Ala	Gln	Asp	Leu	Leu	Tyr	Trp	Gln	Ala	Phe	Val		
1				5					10					15			
Asp	Lys	Phe	Tyr	Ser	Pro	Val	Gly	Val	Leu	Arg	Gln	Gly	Val	Tyr	Asn		
		20					25					30					
Pro	Gln	Ala	Gly	Ser	Lys	Gln	Phe	Glu	Ile	Ser	Thr	Pro	Ala	Leu	Ala		
		35					40					45					
Arg	Tyr	Tyr	Leu	Thr	Gln	Phe	Thr	Ser	Gly	Ile	Arg	Gln	Ile	Gln	Met		
	50				55					60							
Leu	Val	Glu	Gly	Ala	Arg	Glu	Arg	Asp	Ser	Pro	Asn	Gly	Gly	Arg	Ile		
65				70					75					80			
Val	Glu	Ser	Arg	Arg	Thr	Ser	Phe	Ile	Tyr	Trp	Phe	Thr	Asn	Glu	Ser		
			85						90					95			
Gln	Val	Arg	Leu	Phe	Val	Arg	Leu	Asp	Val	Arg	His	Phe	Ala	Asn			
		100					105					110					
Phe	Pro	Lys	Ala	Ile	His	Gln	Arg	Asp	Thr	Tyr	Arg	Ser	Leu	Arg	Ser		
		115					120					125					

Gln

<210> 31655

<211> 179

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (89), (107)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31655

Ala	Arg	Pro	Glu	Ser	Lys	Cys	Leu	Ser	Cys	Pro	Ser	Ser	Ala	Ala	Ser		
1				5					10					15			
Leu	Trp	Arg	Leu	Asp	Ser	Glu	Ser	Ala	Gly	Pro	Ser	Phe	Glu	Leu	Pro		
		20						25					30				
Glu	Gly	Ser	Phe	Val	Ala	Ala	Gly	Leu	Ala	Val	Ala	Pro	Val	Val	Ile		
		35					40					45					

12255

Ala Val Ala Gly Ala Ala Ala Val Ala Ala Val Ala Ala Gly Gly
 50 55 60
 Ala Ala Gly Arg Val Ala Glu Pro Ala Ala Thr Val Ala Gly Ala Gly
 65 70 75 80
 Leu Val Ser Asp Gly Val Glu Gly Xaa His Leu Ala Ala Ala Glu Val
 85 90 95
 Asp Trp Arg Glu Val Glu Asp Gly Ser Thr Xaa Gly Cys Cys Phe Leu
 100 105 110
 Asp Val Val Gly Val Ala Ala Glu Val Leu His Phe Glu His His Ala
 115 120 125
 Tyr Ser Gly Asp Val Leu His Asp Ala Ala Ala Val Tyr Ala Asp Pro
 130 135 140
 Val Ala Pro Arg Leu Gln Arg Arg Pro Leu Arg Leu Val Asp Leu Ala
 145 150 155 160
 Gly Leu Val Gly Leu Ala Ala Pro Asp Val Pro Val Ala Leu Val Gly
 165 170 175
 Pro Ala Ala

<210> 31656
 <211> 98
 <212> PRT
 <213> A.fumigatus

<400> 31656
 Leu Leu Leu Gly Asp Lys Gln Pro Ala Asp Arg Ile Ser Thr Asn Ser
 1 5 10 15
 Gly Phe Thr Ala Ser Tyr Ala Ile Ile Ile Gln Ile Thr Gly Gln
 20 25 30
 Asn Ser Ala Asp Leu Leu Val Tyr Ile Ile His Ser Ile Thr Gln Lys
 35 40 45
 Ser Pro Phe Ser Asp Tyr Ile Pro Ala Ser Met Leu Gly Met Pro
 50 55 60
 Glu Gln Gly Asn Ile Cys Arg Cys Leu Leu Leu Gly Leu Ser Ile Thr
 65 70 75 80
 Leu Thr Pro Val Gly Gln Cys Trp Arg Ala Asp Ala Pro Val Phe Thr
 85 90 95
 Thr Glu

<210> 31657
 <211> 83
 <212> PRT
 <213> A.fumigatus

<400> 31657
 Asp Asp Pro Ser Gln Met Ala Ala Met Leu Ser Tyr Leu Gly Val Thr
 1 5 10 15
 Ser His Asp Ser Arg Met Leu Gly Ile Glu Asn Arg Asn Met Glu Gly
 20 25 30
 Gln Ile Pro Leu Ile Pro Thr Phe Leu Gly Phe Ser Tyr Ala Leu Asp
 35 40 45
 Glu His Thr Ile Glu Ile Asp Asp Glu Thr Leu Leu Asp Ser Asn Leu
 50 55 60
 Val Tyr Gln Pro Pro Val Phe Pro Thr His Gly Cys Ser Thr Ser Gly
 65 70 75 80

Gln Thr Gly

<210> 31658
 <211> 110
 <212> PRT
 <213> A.fumigatus

<400> 31658
 Ala Val Leu Phe Ala Leu Cys Val Thr Arg Ser Val Ser Ala Thr Leu
 1 5 10 15
 Phe Val Asn Phe Thr Asn Tyr Ala Ala Glu Asp Cys Ala Ile Arg Tyr
 20 25 30
 Gly Ser Ser Met Leu Val Pro Thr Tyr Cys Val Asn Ile Glu Asp Phe
 35 40 45
 Pro Ile Lys Ser Tyr Gly Ala Ser Val Ser Ser Gly Glu Cys Asp Asp
 50 55 60
 Ser Ser Thr Ser Pro Val Leu Asn Val Phe Thr Glu Ala Gly Cys Asn
 65 70 75 80
 Thr Gly Leu Phe Asn Thr Val Ala Leu Ser Thr Glu Pro Ile Cys Ile
 85 90 95
 Asn Asp Glu Thr Thr Val Leu Ser Val Ser Val Ala Cys Val
 100 105 110

<210> 31659
 <211> 61
 <212> PRT
 <213> A.fumigatus

<400> 31659
 Asp Asp Cys Val Lys Cys Gln Arg Gly Leu Arg Leu Ser Leu Lys Leu
 1 5 10 15
 Trp Gly Ala Gly Leu Gln Ser Ser Phe Leu Thr Ala Gln Ser His Val
 20 25 30
 Tyr Ile Glu Ala Phe Lys Gln Tyr Pro Lys Asp Leu Gln Ser Arg Thr
 35 40 45
 Thr Asp Leu Asn Met Asp Thr Glu Phe Leu Pro Arg Leu
 50 55 60

<210> 31660
 <211> 138
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (3)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31660
 Ile Ala Xaa Ile Asn Phe Phe Lys Asp Trp Gly Ile Ser Pro Ser Ala
 1 5 10 15
 Val Val Val Asn Ser Ser Gly Glu Val Ile Ala Ala Tyr Ala Ala Asn
 20 25 30
 Ala Leu Ser Leu Arg Thr Ala Ile Ile Phe Ala Tyr Leu Arg Gly Arg
 35 40 45

12257

Cys Val Ser Lys Val Tyr Leu Gln Ala Ala Trp Trp Pro Leu Gly Trp
 50 55 60
 Met Lys Arg Leu Ser Ser Leu Phe Phe Pro Lys Gly Trp Leu Ser Arg
 65 70 75 80
 Ala Ser Ile Ala Pro Arg Ala Leu Thr Ser Leu Gly Thr Arg Gln Gly
 85 90 95
 Trp Pro Arg Trp Leu Thr Gly Ser Arg Arg Thr Ser Gln Lys Pro Leu
 100 105 110
 Tyr Asp Ile Phe Gln Tyr Leu Trp Arg Thr Ile Arg Val Ser Leu Thr
 115 120 125
 Leu Phe Leu Ser Pro Phe Val Thr Ser Gln
 130 135

<210> 31661

<211> 168

<212> PRT

<213> A.fumigatus

<400> 31661

Leu Met Lys Leu Thr Ala Asp Leu Gln Pro Ala Ala Ala Ile Leu Lys
 1 5 10 15
 Ser Glu Val Ala Pro Phe Leu Gln His Asn Glu Ser Met Leu Pro Met
 20 25 30
 Tyr Ser Thr Val Thr Gly Lys Ala Ile Pro Asn Pro Ala Ala Leu Asp
 35 40 45
 Ala Glu His Trp Gln Lys Asn Leu Glu Leu Pro Val Leu Phe Ser Thr
 50 55 60
 Ala Val Asp Gly Val Leu Ala Glu Arg Pro Glu Arg Arg Lys Ile Phe
 65 70 75 80
 Leu Glu Ile Gly Thr His Ser Ile Leu Ser Gly Pro Leu Arg Gln Ile
 85 90 95
 Phe Thr Tyr Lys Ser Ser Asp Cys Val Tyr Leu Pro Thr Leu Ile Lys
 100 105 110
 Ser Glu Ser Glu Thr Phe Cys Leu Leu Lys Thr Ala Gly Gln Leu Tyr
 115 120 125
 Leu His Gly His Pro Val Asp Phe Gln Ala Val Asn Gly Asn Gly His
 130 135 140
 Ile Val Thr Asn Leu Pro Ala Tyr Pro Trp Asp Arg Lys Arg Val Asn
 145 150 155 160
 Trp Gln Gly Lys Pro Phe Lys Pro
 165

<210> 31662

<211> 617

<212> PRT

<213> A.fumigatus

<400> 31662

Thr Gly Arg Glu Ser Arg Leu Ser His Asn Trp Arg Phe Arg Val Tyr
 1 5 10 15
 Pro Asn His Glu Leu Leu Gly Ser Arg Met Leu Glu Ala Ser Asp Leu
 20 25 30
 Glu Pro Gly Trp Arg Asn Val Leu Glu Ser Arg His Val Pro Trp Leu
 35 40 45
 Ser Asp His Arg Val Ser Gly Glu Val Val Phe Pro Cys Ala Gly Tyr
 50 55 60

Ile	Ala	Met	Ile	His	Glu	Ala	Met	Arg	Gln	Leu	Ser	Asn	Asn	Asn	Glu	65	70	75	80
Cys	Thr	Ile	Gln	Asn	Leu	Ser	Met	Gln	Val	Pro	Leu	Ile	Val	Pro	Arg	85	90	95	
Val	Glu	Pro	Ile	Glu	Ile	Leu	Thr	Thr	Ala	Lys	Arg	Ile	Arg	Val	Asn	100	105	110	
Asp	Arg	Val	Glu	Ser	Asp	Trp	Phe	Glu	Phe	Ala	Ile	Met	Ser	Tyr	Asn	115	120	125	
Gly	Thr	Glu	Trp	Ile	Arg	His	Ala	Phe	Gly	Arg	Ala	Lys	Ser	Gly	Val	130	135	140	
Asp	Lys	Val	Asp	Ser	Glu	Pro	Arg	Val	Pro	Arg	Asp	Phe	Pro	Arg	Arg	145	150	155	160
Val	Ser	Ser	Glu	Leu	Trp	Tyr	Arg	Thr	Leu	Glu	Lys	Val	Gly	Leu	Ser	165	170	175	
Tyr	Gly	Pro	Thr	Phe	Arg	Gly	Leu	Gln	Glu	Ile	Thr	Ala	Asp	Pro	Ser	180	185	190	
Arg	His	Val	Ala	Ala	Ala	Ser	Met	Arg	Gly	Arg	Gln	Asp	Ser	Lys	Ala	195	200	205	
Val	His	Pro	Thr	Val	Ile	Asp	Glu	Cys	Leu	Gln	Leu	Phe	Thr	Val	Ala	210	215	220	
Ala	Cys	Lys	Gly	Arg	Ala	Val	Asn	Met	Thr	Arg	Leu	Tyr	Val	Pro	Val	225	230	235	240
Phe	Val	Gly	Glu	Val	Gln	Leu	Gly	Leu	Gly	Gln	Glu	Ile	Met	Arg	Ala	245	250	255	
Glu	Ala	Thr	Ile	Ser	Asn	Trp	Thr	Ala	Glu	Leu	Gly	Ser	Gly	Asn	Val	260	265	270	
Arg	Leu	Ile	Ala	Met	Asp	Gln	Gln	Asp	Ala	Ser	Ile	Lys	Arg	Val	Leu	275	280	285	
Ser	Met	Ala	Gly	Val	Thr	Val	Ala	Pro	Leu	Asp	Ser	Asn	Ile	Arg	Ala	290	295	300	
Val	Ser	Glu	Ala	Asp	Phe	Pro	Leu	Ala	Ser	His	Ala	Glu	Trp	Arg	Pro	305	310	315	320
Asp	Ile	Asp	Leu	Leu	Asn	Glu	Gln	Arg	Leu	Thr	Arg	His	Tyr	Ser	Gln	325	330	335	
Ser	Thr	Glu	Ala	Gly	Phe	Ala	Leu	Ile	Ala	Lys	Leu	Ser	Ala	Leu	Ser	340	345	350	
Val	Ile	Gln	Val	His	Arg	Arg	Ile	Ala	Asp	Val	Thr	Pro	Phe	Ser	Pro	355	360	365	
Ser	Leu	Ala	Lys	Tyr	Gln	Lys	Phe	Ile	Ser	Thr	Gln	Ile	Ala	Glu	Ile	370	375	380	
Gln	Gly	Gly	Ser	Phe	Cys	Gly	Val	Pro	Glu	Ala	Ala	Ser	Trp	Leu	Lys	385	390	395	400
Phe	Ser	Asp	Glu	Ser	Leu	Gln	Arg	Gln	Arg	Ala	Ala	Leu	Asp	Glu	Gly	405	410	415	
Leu	Arg	Thr	Ser	Lys	Leu	Ala	Cys	Val	Ser	Ser	Leu	Ser	Asn	Trp	Ile	420	425	430	
Val	Glu	Thr	Val	Arg	Asn	Val	Ile	Asp	Gly	Ser	Leu	Leu	Pro	Ser	Asp	435	440	445	
Phe	Pro	Ala	Ala	Ile	Gln	Glu	Gln	Ile	Trp	Gln	Cys	Glu	Ser	Leu	Val	450	455	460	
Ala	Ser	Met	Thr	Asp	Leu	Ser	His	Trp	Phe	Gly	Leu	Leu	Arg	His	Ser	465	470	475	480
Asn	Pro	Leu	Leu	Arg	Ile	Leu	His	Ile	Ala	Glu	Gly	Lys	Gly	Val	Val	485	490	495	
Ser	His	Gln	Val	Leu	Glu	His	Leu	Asp	Ser	Glu	Asp	Leu	Pro	Phe	Tyr	500	505	510	

12259

Ser Lys Tyr Thr Tyr Thr Ser Thr Asn Asp Ile Ser Pro Ala Val Gln
 515 520 525
 Glu His Leu Lys Glu Tyr Lys Glu Val Asn Phe Lys Ser Leu Asp Ile
 530 535 540
 Thr Lys Asp Pro Arg Gln Gln Gly Phe Glu Glu Gly Ala His Asp Leu
 545 550 555 560
 Ile Ile Val Ser Asn Phe Cys Asp Val Asp Phe Ser Ala Ile Trp His
 565 570 575
 Ser Arg Leu Leu Thr Ala Phe Pro Asp Glu Arg Ser Thr Phe Ser Val
 580 585 590
 Ala Asn Cys Ser Ser Lys His Gln Asn Ala Pro Cys Ala Gly Arg Pro
 595 600 605
 Ser Ser Ala Ser Tyr Thr Lys Cys Arg
 610 615

<210> 31663

<211> 194

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (2)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31663

Cys Xaa Asp Gln Leu Phe Gln Gly Leu Gly Asn Leu Pro Ile Ser Arg
 1 5 10 15
 Cys Ser Gln Leu Glu Arg Arg Gly Asp Cys Gly Val Cys Gly Glu Arg
 20 25 30
 Pro Phe Thr Ser Tyr Gly Tyr His Leu Arg Ile Pro Ala Trp Thr Met
 35 40 45
 Arg Val Gln Gly Leu Ser Ser Gly Gly Met Val Ala Ile Gly Leu Asp
 50 55 60
 Glu Ala Ser Leu Lys Pro Ile Leu Ser Glu Gly Val Val Val Ala Cys
 65 70 75 80
 Val Asn Ser Pro Gln Ser Val Asn Leu Ser Gly Asp Lys Thr Arg Leu
 85 90 95
 Ala Ala Val Val Asp Arg Ile Lys Ala Asp Lys Pro Glu Thr Phe Ile
 100 105 110
 Arg Tyr Ile Pro Val Pro Val Ala Tyr His Ser Arg Glu Leu Asn Pro
 115 120 125
 Val Phe Val Thr Phe Cys Tyr Leu Ala Ile Ala Asn Glu Ile Asn Ser
 130 135 140
 Arg Ser Ala Thr Ser Gly Ser His Ser Gln Val Arg Ser Cys Pro Leu
 145 150 155 160
 Ser Pro Ala Gln Arg Ile Asn Ala Ala His Val Leu His Cys His Arg
 165 170 175
 Gln Gly Asp Thr Lys Pro Gly Cys Pro Arg Arg Arg Ala Leu Ala Glu
 180 185 190
 Lys Pro

<210> 31664

<211> 76

<212> PRT

<213> A.fumigatus

<400> 31664

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Ser Leu Arg Leu Gln Arg Val Ser Pro Ser Phe Lys Met Ala Thr Glu
1           5           10           15
Asp Leu Ile Thr Leu Thr Tyr Lys Glu Arg Ile Ala Ile Ile Thr Phe
           20           25           30
Asn Arg Pro Glu Lys Leu Asn Ala Leu Asn Ala Asp Leu Tyr Tyr Leu
           35           40           45
Leu Gly Glu Arg Leu Arg Glu Ile Glu Lys Arg Asp Asp Ile Phe Ile
           50           55           60
Thr Ile Leu Thr Gly Thr Gly Arg Tyr Phe Ser Ala
65           70           75

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<210> 31665

<211> 215

<212> PRT

<213> A.fumigatus

<400> 31665

```

Arg Pro Ile Ser Gly Ala Asp Val Asn Ser Thr Arg Pro Gly Gly Gly
1           5           10           15
Leu Asn Ser Asp Thr Arg Arg Glu Ile Thr Arg Thr Phe Val Val Asn
           20           25           30
Asn Leu Asp Leu Thr Arg Thr Val Tyr Asn His Pro Lys Ile Leu Val
           35           40           45
Ala Ala Leu Asn Gly Pro Ala Val Gly Leu Ser Ala Ala Leu Val Ala
           50           55           60
Phe Ala Asp Phe Val Tyr Ala Ala Pro His Thr Phe Leu Leu Thr Pro
65           70           75           80
Phe Ser Ser Leu Gly Leu Val Ala Glu Gly Gly Ala Ser Arg Ala Phe
           85           90           95
Val Glu Arg Leu Gly Ile Ser Lys Ala Asn Glu Ala Leu Ile Met Ser
           100          105          110
Lys Arg Ile Thr Cys Glu Glu Leu Val Ala Thr Gly Phe Val Asn Lys
           115          120          125
Val Ile Ser Ala Pro Ser Gly Lys Pro Asp Asp Ser Glu Gly Phe Leu
           130          135          140
Lys Lys Val Leu Glu Glu Val Glu Asp Arg Leu Gly Thr His Leu Asn
145          150          155          160
Gln Ser Ser Leu Leu Lys Ile Lys Glu Leu Ile Arg Arg Pro Glu Arg
           165          170          175
Glu Leu Leu Asp Arg Gln Asn Thr Tyr Glu Val Phe Ala Gly Met Glu
           180          185          190
Arg Phe Val Lys Gly Tyr Pro Gln Glu Glu Phe Arg Lys Leu Ala Ser
           195          200          205
Gly Glu Lys Arg His Lys Leu
           210          215

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<210> 31666

<211> 157

<212> PRT

<213> A.fumigatus

<400> 31666

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Ile Pro Glu Ala Ala Pro Ala Cys Val Gly Tyr Arg Thr Ser Thr Leu

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12261

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1           5           10           15
Gly Arg Asn Arg Thr Asp Pro Leu Leu Phe Ser Cys Leu Glu Ile Leu
      20           25           30
Gln Met Lys Asn Pro Ile Gly Ile Lys Glu Glu Asp Thr Asp Ala Pro
      35           40           45
Glu Glu Ser Phe Val Arg Leu Ser Leu Asn Gly Ala Thr Pro Thr Val
      50           55           60
Val Glu Val Asn Arg Asp Glu Asp Ser Glu Ser Glu Lys Asp Val Gly
65           70           75           80
Ser Ala Asp Asp Gly Asp Asp Ser Pro Phe Leu Pro Glu Phe Arg Leu
      85           90           95
Val Lys Arg Asp Asp Pro Glu Ala Tyr Ser Phe Ser Thr Pro Gln Tyr
      100          105          110
Ser Ala His Lys Leu Pro Lys Glu Val Val Asp Ala Ser Leu Ala Gly
      115          120          125
Ser Gly Gly Met Ser Glu Phe Leu Gly Lys Trp Gln Asp Ile Leu Ala
      130          135          140
Lys Gln Thr Gln Glu Asp Thr Asp Ser Asp Asp Gly Arg
145          150          155

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<210> 31667

<211> 277

<212> PRT

<213> A.fumigatus

<400> 31667

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Pro Val Thr Thr Met Thr Leu Phe Thr Thr Asn His Gln Thr Ala Phe
1           5           10           15
Ala Met Ser Ser His Gln Tyr Thr Leu Pro Gly Met His Asp Val Pro
      20           25           30
Glu Thr Tyr Pro Tyr His Met Arg Val Asp Ser Glu Glu Asp Met Asp
      35           40           45
Ser Leu Tyr Leu Ser Ser Ala Pro Glu Pro Ser Tyr Thr Arg Leu Asp
      50           55           60
Phe Glu Pro Thr Ile Pro Ala Met Pro Thr Ser Gln Ala Tyr Asn Thr
65           70           75           80
Thr Met Arg Ala Pro Met Ser Gly Ser Tyr Leu Pro Tyr Ser Asp Gln
      85           90           95
Trp Thr Ser Gln Val Pro Pro Thr Ala Ala Ala Ala Pro Thr Thr Thr
      100          105          110
Leu Tyr His Pro Thr Asp Ile Tyr Pro Ser Ser Thr Met Thr Tyr Thr
      115          120          125
Pro Gln Arg Thr Ala Pro Thr Ala Leu Asn Pro Asn Pro Gln Thr Tyr
      130          135          140
Phe Tyr Pro Asp Pro Ser Thr Asn Thr Asn Leu Asp Leu Asp Leu Lys
145          150          155          160
Leu Pro Ser Ser Asp Leu Asp Thr Lys Asp Leu Thr Asn Tyr Gly Ile
      165          170          175
Pro Asn Pro Asp Gly Ser Trp Ser Cys Ala Tyr Pro Gly Cys Thr Ser
      180          185          190
Thr Ala Thr Phe His Arg Gly Cys Asp Leu Arg Lys His Phe Asn Arg
      195          200          205
His Arg Lys His Leu Phe Cys Arg His Glu Gly Cys Pro Gln Ala Val
      210          215          220
Thr Gly Gly Phe Ser Ser Lys Lys Asp Arg Ser Arg His Glu Ala Lys
225          230          235          240

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12262

His Asn Pro Gly Val Val Cys Glu Trp Pro Asp Cys Gly Arg Val Phe
 245 250 255
 Ser Arg Val Asp Asn Met Lys Asp His Val Arg Arg Ile His Lys Arg
 260 265 270
 Gly Glu Val Tyr Ser
 275

<210> 31668
 <211> 83
 <212> PRT
 <213> A.fumigatus

<400> 31668
 Ser Leu Val Trp Phe Cys Leu Phe Thr Pro Thr Ile Gly Met Leu Ile
 1 5 10 15
 Leu Phe Ile Arg Val Asn Lys Ser Asn Pro Asp Leu Thr Asn Thr Ile
 20 25 30
 Val Ile Ser Leu Ala Glu Val Ser Lys His Pro Ser Ile Gln Ser Tyr
 35 40 45
 Tyr Leu Leu Ser Ile Thr Val Val Arg Gln Asp Leu Lys Ser Asn Leu
 50 55 60
 Leu Leu Thr Tyr Ile Ile Asn Gln Gly Thr Val Val Leu Gly Trp Ile
 65 70 75 80
 Val Arg Arg

<210> 31669
 <211> 348
 <212> PRT
 <213> A.fumigatus
 <220>
 <221> UNSURE
 <222> (124), (290)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31669
 Ile Asp Arg Gly Ser Phe Gln Pro Arg Gly Glu Asp Pro Pro Leu Ser
 1 5 10 15
 Leu Trp His Gly Phe Met Pro Thr Phe Thr Thr Thr Ser Ser Asn Pro
 20 25 30
 Gly Leu Asp His Arg Leu Ser Ser Pro Ile Leu Glu His Tyr Val Tyr
 35 40 45
 Pro Thr Phe Ile Ala Val Ala Trp Cys Asn Ala Ile Asp Leu Ile Val
 50 55 60
 Leu Cys Phe Asn Thr Phe Lys Arg Tyr Ser Gly Pro Tyr Phe Trp Ser
 65 70 75 80
 Leu Leu Val Ser Ser Phe Cys Ile Ile Pro Phe Gly Leu Gly Tyr Val
 85 90 95
 Leu Lys Ile Tyr Ser Ile Thr Phe Thr Asn Tyr Phe Leu Glu Ile Ala
 100 105 110
 Ile Leu Asp Ala Gly Trp Ser Gly Met Val Thr Xaa Gln Ser Leu Val
 115 120 125
 Leu Trp Ser Arg Leu Asn Leu Val Leu Asp Asn Arg Arg Val Leu Lys
 130 135 140
 Ala Leu Leu Tyr Leu Ile Ile Val Asp Gly Ala Val Leu His Thr Ala

12263

145 150 155 160
 Cys Thr Ala Leu Glu Phe Ala Thr Asn Ala Leu Pro Ser Asn Gly Val
 165 170 175
 Ala Ile Ala Phe Asp Val Met Glu Arg Val Gln Leu Val Gly Phe Cys
 180 185 190
 Leu Gln Glu Leu Leu Leu Ser Gly Leu Tyr Ile Tyr Lys Ala Val Pro
 195 200 205
 Leu Leu Lys Met Asp Ala Asp Arg Arg Ser Arg Gly Val Leu Val Gln
 210 215 220
 Leu Ile Val Ile Asn Ala Val Ile Met Ala Leu Asp Val Ser Val Val
 225 230 235 240
 Ile Val Gln Tyr Leu Gly Leu Phe Thr Leu Gln Val Thr Ser Lys Ala
 245 250 255
 Leu Val Tyr Ser Ile Lys Leu Lys Leu Glu Tyr Val Ile Leu Gly Arg
 260 265 270
 Leu Val Asp Val Ser Arg Val Arg Ser Pro Ala Ala Ala Arg Met Arg
 275 280 285
 Leu Xaa Phe Val Ile Phe Leu Val Tyr Ile Tyr Arg Phe Leu Leu Val
 290 295 300
 His Ile Ile Leu Ser Ile Tyr Asn Ile Val Tyr Ile Arg Leu Ser Thr
 305 310 315 320
 Pro Thr Ser Arg Ser Trp Ser Ser Cys Ser Ser Thr Ser Ser Ser Glu
 325 330 335
 Thr Pro Ser His Ser Leu Lys Arg Lys Arg Ala Pro
 340 345

<210> 31670

<211> 179

<212> PRT

<213> A.fumigatus

<400> 31670

Asn Ala Lys Glu Arg Arg Asn Pro Gly Leu Arg Arg Gln Tyr Arg Ser
 1 5 10 15
 Cys Tyr Ser Gln Arg Gly Lys Thr Tyr Ile Ser Pro Arg Val Ile Pro
 20 25 30
 Leu Leu Gln Val Lys Arg Pro Arg Ile Val Arg Pro Ser Arg Ile Leu
 35 40 45
 Thr Glu Leu Thr Ser Arg Arg Ile Pro Ile Asn Gln Ile Ser Arg Leu
 50 55 60
 Leu Ser Gln Glu Arg Ser His Val Leu Pro Thr Arg Leu Ser Gln Arg
 65 70 75 80
 Arg Thr Lys Ser His Gln Leu Arg Arg Val Thr Ala His Leu His Ile
 85 90 95
 Pro Glu Asp Leu Thr Gln Gln Pro Ala Asn Gln Val Arg Glu Arg Ile
 100 105 110
 Glu Val Val Gln Pro Val Ala Pro Glu Arg Leu His Leu Arg Lys Gly
 115 120 125
 His His His Ala Ala Glu Ala Asp Gln Pro Arg Ala Asp Gln His Gly
 130 135 140
 Val His His Arg Arg Glu Val Leu Val Gly Arg Val Arg Cys Asp Pro
 145 150 155 160
 Leu Ser Asp Arg Arg Val Gln Glu Leu Val Glu Asp His Leu Gln Ile
 165 170 175
 His Val Ser

<210> 31671
 <211> 233
 <212> PRT
 <213> A.fumigatus

<400> 31671
 Arg Ser Ala Tyr Asn Ile Ile Arg Phe Leu Arg Lys Leu Val Asp Gly
 1 5 10 15
 Gly Gln Ala Val Leu Cys Thr Ile His Gln Pro Ser Ala Val Leu Phe
 20 25 30
 Glu Ala Phe Asp Ser Leu Leu Leu Leu Ala Arg Gly Gly Lys Met Ala
 35 40 45
 Tyr Phe Gly Glu Thr Gly Lys Asp Ser Gln Thr Val Leu Asp Tyr Phe
 50 55 60
 Ala Arg His Gly Ala Pro Cys Pro Pro Asp Glu Asn Pro Ala Glu His
 65 70 75 80
 Ile Val Glu Val Ile Gln Gly Asn Thr Asp Lys Pro Ile Asp Trp Val
 85 90 95
 Gln Val Trp Asn Glu Ser Glu Glu Lys Gln Arg Ala Leu Ala Gln Leu
 100 105 110
 Gln Thr Leu Asn Ala Arg Gly Lys Ala Asp Ala Asp Tyr Val Glu Asp
 115 120 125
 Thr Ala Asp Tyr Ala Thr Ser Lys Trp Phe Gln Phe Thr Met Val Thr
 130 135 140
 Lys Arg Leu Met Val Gln Leu Trp Arg Ser Pro Asp Tyr Val Trp Asn
 145 150 155 160
 Lys Val Ile Leu His Val Phe Ala Ala Leu Phe Ser Gly Phe Thr Phe
 165 170 175
 Trp Lys Ile Gly Asp Gly Thr Phe Asp Leu Gln Leu Arg Leu Phe Ala
 180 185 190
 Ile Phe Asn Phe Ile Phe Val Ala Pro Gly Cys Ile Asn Gln Met Gln
 195 200 205
 Pro Phe Phe Leu His Asn Arg Asp Ile Phe Glu Ala Arg Glu Lys Lys
 210 215 220
 Val Leu Ser Tyr Pro Leu Tyr Thr Pro
 225 230

<210> 31672
 <211> 63
 <212> PRT
 <213> A.fumigatus

<400> 31672
 Pro Glu Gly Ala Val Leu Leu Leu Glu Arg Cys Lys Ser Ser Pro Val
 1 5 10 15
 Ala Ser Asn Lys Thr Asp Thr Asp Gly Val Asp Arg Asp Tyr Gly Ala
 20 25 30
 Leu Leu Arg Phe Lys Leu Cys Asp Gly Val Ser Asp Asp Glu Val Glu
 35 40 45
 Glu Gln Glu Asp Gln Glu Arg Glu Val Gly Val Asp Asn Leu Ile
 50 55 60

<210> 31673
 <211> 214
 <212> PRT

<213> A.fumigatus

<400> 31673

Ser Lys Ile Tyr His Trp Leu Ala Phe Ile Gly Ala Gln Thr Val Ser
 1 5 10 15
 Glu Ile Pro Tyr Leu Ile Leu Cys Ala Thr Leu Tyr Phe Ala Cys Trp
 20 25 30
 Tyr Phe Thr Ala Gly Phe Pro Thr Thr Ala Ser Ile Ser Gly His Met
 35 40 45
 Tyr Leu Gln Met Ile Phe Tyr Glu Phe Leu Tyr Thr Ser Ile Gly Gln
 50 55 60
 Gly Ile Ala Ala Tyr Ala Pro Asn Glu Tyr Phe Ala Ala Val Met Asn
 65 70 75 80
 Pro Val Leu Ile Gly Ala Gly Leu Val Ser Phe Cys Gly Val Val Val
 85 90 95
 Pro Phe Ser Gln Met Gln Pro Phe Trp Arg Asp Trp Leu Tyr Tyr Leu
 100 105 110
 Asp Pro Phe Thr Tyr Leu Val Gly Gly Leu Leu Gly Glu Val Leu Trp
 115 120 125
 Asp Val Glu Val Arg Cys Asp Pro Ser Glu Leu Val Arg Phe Arg Ala
 130 135 140
 Pro Leu Gly Gln Thr Cys Gly Glu Tyr Met Ala Ala Phe Leu Ala Glu
 145 150 155 160
 Lys Pro Gly Tyr Leu Val Asp Gly Asn Ala Thr Ala Cys Glu Phe Cys
 165 170 175
 Gln Tyr Ser Thr Gly Ala Asp Tyr Ala Arg Thr Phe Asn Leu Lys Glu
 180 185 190
 Arg Tyr Tyr Ser Trp Arg Asp Val Ser Leu Pro Pro Leu Arg Val Thr
 195 200 205
 Arg Pro Ile Leu Thr Ala
 210

<210> 31674

<211> 78

<212> PRT

<213> A.fumigatus

<400> 31674

Ala Ala Cys Ala Phe Val Gly Leu Met Val His Ser Pro Ser Pro Ile
 1 5 10 15
 Arg His Ala Phe Tyr Glu Thr Phe Leu His Leu His Ile Ala Met Ala
 20 25 30
 Ile Val Ser Met Val Gly Leu Trp Ile His Leu Asp Gly Leu Pro Ala
 35 40 45
 Gln Thr Tyr Leu Leu Val Ala Ile Ile Phe Trp Gly Val Glu Val Gly
 50 55 60
 His Arg Asn Pro Phe Pro Val Lys Leu Glu Gln Ala Arg Ser
 65 70 75

<210> 31675

<211> 294

<212> PRT

<213> A.fumigatus

<400> 31675

Leu Cys Pro Gln Arg Ala Thr Arg Val Ala Ile Ile Val Tyr Arg Asn

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1           5           10           15
Cys Gly Arg Arg Ala Thr Thr Ala Val Val Glu Ala Met Pro Gly Glu
                20           25           30
Ala Met Arg Ile Thr Leu Lys Met Ala Arg Pro Trp Thr Phe Lys Pro
                35           40           45
Gly Gln His Ile Tyr Leu Tyr Ile Pro Ser Ile Gly Leu Trp Thr Ser
                50           55           60
His Pro Phe Ser Val Gly Trp Ser Glu Ser Glu Glu Val Val Thr Asp
65           70           75           80
Glu Lys Gly Met Pro Met Thr Arg Gln Asp Val Phe Gly Met Gln Lys
                85           90           95
Thr Thr Val Ser Leu Leu Val Arg Arg Arg Thr Gly Phe Thr Asn Lys
                100           105           110
Leu Tyr Gln Arg Ala Leu Ser Ala Pro Asp Ser Arg Val Thr Leu Lys
                115           120           125
Ala Phe Ala Glu Gly Pro Tyr Gly Gly Ile His Ser Met Asp Ser Tyr
                130           135           140
Gly Thr Val Val Leu Phe Ala Gly Gly Val Gly Ile Thr His Gln Val
145           150           155           160
Pro Phe Val Arg His Leu Val Lys Gly Tyr Ala Glu Gly Thr Val Ala
                165           170           175
Ala Arg Arg Val Thr Leu Val Trp Ile Ile Gln Ser Pro Glu His Leu
                180           185           190
Glu Trp Ile Arg Pro Trp Met Thr Ser Ile Leu Ala Met Asp Arg Arg
                195           200           205
Arg Glu Val Leu Arg Ile Met Leu Phe Ile Thr Arg Pro Arg Asn Thr
                210           215           220
Lys Glu Ile Gln Ser Pro Ser Ala Thr Val Gln Met Phe Pro Gly Arg
225           230           235           240
Pro Asn Ile Asp Thr Leu Ile Gly Met Glu Val Glu Asn Gln Ile Gly
                245           250           255
Ala Met Gly Val Leu Val Cys Gly Asn Gly Ser Leu Ser Asp Asp Val
                260           265           270
Arg Arg Val Cys Arg Lys Arg Gln Asp Gln Thr Asn Val Asp Phe Val
                275           280           285
Glu Glu Ser Phe Thr Trp
                290

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<210> 31676

<211> 137

<212> PRT

<213> A.fumigatus

<400> 31676

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Leu Ser Tyr Ala Leu Lys Tyr Ser Ser Ser Arg Ala Gly Arg Asp Leu
1           5           10           15
Pro Gly Ser Thr Gln Val Phe Phe Ala His Gln Pro Phe Ala Asp Pro
                20           25           30
Ser Glu Thr Leu Asp Leu Arg Pro Trp Met Asp Gln Thr Pro Ile Thr
                35           40           45
Leu Asn Ser Gly Thr Thr Phe Leu Ile Val Arg Arg Met Phe Gln Arg
50           55           60
Leu Gly Leu Arg Tyr Val Leu Phe Ala Asn Lys Gly Val Leu Gln Gly
65           70           75           80
Leu Leu Thr Lys Lys Asp Val Trp Ser Ile Ile Asp Gly Ala Glu Ser
                85           90           95

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12267

Arg	Arg	Val	Glu	Asp	Leu	Val	Thr	Asp	Ser	Phe	Arg	Gln	Arg	Asn	Thr
			100					105					110		
Ala	Glu	Glu	Val	Gly	Leu	Leu	Glu	Ser	Asp	Asp	Gly	Thr	Ser	Leu	Ala
		115					120					125			
Ser	Ser	Leu	Asp	Arg	Arg	Pro	Ser	Leu							
		130					135								

<210> 31677
 <211> 84
 <212> PRT
 <213> A.fumigatus

<400> 31677															
Leu	Leu	Phe	Glu	Ala	Ile	Gly	Leu	Val	Glu	His	Ser	Glu	Asn	Ser	Arg
1				5					10					15	
Thr	Ala	Thr	Met	Met	Ala	Asp	Pro	Phe	Glu	Val	Arg	Met	Arg	Phe	Thr
			20					25					30		
Ala	Gln	Leu	Gln	His	Leu	Asn	Ala	Ser	Val	Thr	Ser	Ser	Gln	Lys	Ala
		35					40					45			
Ala	His	Tyr	Ala	Leu	Lys	Tyr	Arg	Asp	Met	Asp	Glu	Asp	Leu	His	Ser
	50					55					60				
Cys	Ile	Leu	Glu	Gln	Leu	Glu	Arg	Val	Cys	Met	Ser	Leu	Leu	Pro	Tyr
65					70				75						80
Arg	Arg	Leu	Leu												

<210> 31678
 <211> 214
 <212> PRT
 <213> A.fumigatus

<400> 31678															
Phe	Ser	Met	Phe	Ser	His	Ile	Val	Thr	Ala	Ala	Lys	Gly	Leu	Phe	Ala
1				5					10					15	
Arg	Gln	Glu	Val	Asp	Glu	Thr	Lys	Leu	Asp	Asn	Ser	Asn	Thr	Thr	Ser
			20					25					30		
Thr	Ser	Ser	Thr	Gly	Pro	Ile	Gly	Arg	Asn	Thr	Lys	Met	Val	Thr	Ala
		35					40					45			
Thr	Arg	Arg	Arg	Thr	Leu	Glu	Thr	Ser	Ser	Thr	Ala	Ser	Gly	Asp	Ser
	50					55					60				
Lys	Gly	Met	Pro	Thr	Ser	Ala	Asn	Gly	Lys	Arg	Lys	Pro	Glu	Ser	Thr
65					70				75						80
Ser	Ala	Val	Lys	Pro	Glu	Ser	Gln	His	Asn	Lys	Arg	Arg	Lys	Arg	Ser
			85						90					95	
Ser	Val	Glu	Ala	Ala	Glu	Glu	Gln	Lys	Arg	Glu	Leu	Ser	Thr	Asp	Gly
		100						105					110		
Val	Val	Ala	Glu	Pro	Asp	Ser	Lys	Arg	Ser	Glu	Ala	Gln	Ala	Ala	Ser
		115					120					125			
Ser	Lys	Thr	Lys	His	Phe	Arg	Phe	Asp	Ser	Glu	Glu	Pro	Glu	Leu	Pro
	130					135					140				
Val	Glu	Met	Glu	Thr	Glu	Ala	Pro	Glu	Pro	Gln	Gln	Lys	Glu	Gln	Asp
145					150					155					160
Asn	Glu	Asp	Ser	Ser	Asp	Asp	Asp	Glu	Ala	Pro	Glu	Ala	Ile	Asp	Asn
			165					170						175	
Ser	Thr	Gln	Met	Ser	Lys	Ile	Arg	Leu	Glu	Ala	Lys	Arg	Gln	Glu	Arg
			180					185					190		

12268

Ala Arg Gln Met Leu Val Ser Pro Leu Pro Leu Lys Asn Phe Phe Val
 195 200 205
 Ser Asn Ser Asn Leu Gln
 210

<210> 31679
 <211> 187
 <212> PRT
 <213> A.fumigatus

<400> 31679
 Asn Asn Met Asn Asn Arg Ala Asn Ile Met Tyr Phe Ile Glu Gln Phe
 1 5 10 15
 Cys Glu Met Ala Thr Lys Glu Asn His Thr Pro Tyr Val Arg Met Met
 20 25 30
 Gln Arg Asp Ile Leu Arg Val Val Asp Ala Val Val Pro Pro Asp Gly
 35 40 45
 Ser Gly Ala Ala Asn Ile Lys His Val Arg Arg Val Leu Asn Gly Leu
 50 55 60
 Gln Ser Lys Asp Ile Leu Ser Ala Glu Thr Val Ala Glu Ile Asp Ala
 65 70 75 80
 Gly Leu Lys Glu Arg Glu Ala Gln Val Ala His Leu Asp Leu Asp Ala
 85 90 95
 Glu Glu Glu Gly Asn Asn Gly Ser Lys Ala Lys Gly Gly Thr Pro Arg
 100 105 110
 Gly Ser Arg Pro Ser Gly Met Arg Val Asp Lys Arg Gln Ile Glu Gln
 115 120 125
 Arg Ile Glu Glu Asp Arg Glu Arg Asn Lys Arg Leu Arg Glu Ser Met
 130 135 140
 Trp Thr Val Ser Gly Asp Asp Gly Asp Glu His Gly Lys Phe Trp Asp
 145 150 155 160
 Glu Val Ser Asp Ile Gly Glu Asp Asp Phe Leu Gly Ala Gln Glu Glu
 165 170 175
 Leu Met Glu Arg Asn Gln Met Val Ala Ala Gln
 180 185

<210> 31680
 <211> 217
 <212> PRT
 <213> A.fumigatus

<400> 31680
 Val Pro Phe Phe Ala Thr Ala Ser Asp Ser Glu His Leu Ile Leu Phe
 1 5 10 15
 Cys Phe Ile Ser Lys Asp Pro Ser Ala Leu Pro Lys Met His Phe Ser
 20 25 30
 Pro Ala Ala Ile Leu Phe Ile Ser Val Leu Gly Thr Gln Ala Val Pro
 35 40 45
 Leu Ala Phe Pro Gly Leu Glu Ser Asn Thr Leu Val Arg Arg Gln Glu
 50 55 60
 Glu Thr Tyr Ser Val Val Asn Val Gly Gly Thr Ser Pro Asn Gly Val
 65 70 75 80
 Asp Thr Ser Ser Val Val Glu Thr Gln Thr Gln Thr Val Thr Ala Pro
 85 90 95
 Ser Ile Pro Gln Ala Pro Val Thr Val Thr Val Thr Asp Met Pro Thr
 100 105 110

12269

Ser Thr Ser Thr Pro Val Ile Thr Pro Ser Ser Trp Ala Thr Pro Ser
 115 120 125
 Ser Ser Ser Tyr Ile Pro Ser Ser Lys Cys Leu Thr Ala Trp Pro Thr
 130 135 140
 Pro Ser Pro Glu Asp Asp His Arg Lys Pro Pro Leu Pro Pro Arg Ser
 145 150 155 160
 Phe Arg Arg Ala Leu Ser Ser Thr Asn Ser Thr Gly Arg His Val Phe
 165 170 175
 Asn Val Arg Ser Asp Asn Ala Thr Val Thr Val Pro Ile Ser Ala Arg
 180 185 190
 Thr Leu Leu Asn Ser Thr Ile Ala Ala Arg Gly Gly Val Phe Ala Arg
 195 200 205
 Ala Leu Asn Gln Thr Gly His Val Tyr
 210 215

<210> 31681

<211> 73

<212> PRT

<213> A.fumigatus

<400> 31681

Leu Pro Lys Ile Thr Phe Tyr Leu Leu Thr Pro Ile Tyr Val Thr Asn
 1 5 10 15
 Leu Phe Ser Phe Asn Thr Asn Met Cys Arg Asn Pro Ile Asp Thr Met
 20 25 30
 Asp Asn Leu Ser Thr Glu Asn Ile Pro Glu Ser Lys Ser Lys Ser Val
 35 40 45
 Pro Tyr Val Arg Ser Lys Tyr Thr Ile Ala Arg Ala Arg Arg Arg Ser
 50 55 60
 Ser Asn Ser Pro Tyr Gly His Ile Lys
 65 70

<210> 31682

<211> 532

<212> PRT

<213> A.fumigatus

<400> 31682

Ile Ser Arg Glu Arg Val Thr Met Pro Gly Arg Leu Leu Ser Ser Phe
 1 5 10 15
 Val Arg Pro Ala Ala Leu His Ser Ser Leu Leu Ser His Ser Asn Ser
 20 25 30
 Ser Ser Thr Ser Ser Val Asn Glu Ile Thr Thr Thr Thr Val Ala Pro
 35 40 45
 Lys Lys Pro His Ala His Ser Asp Arg Ala Arg Ser Pro Glu Arg Arg
 50 55 60
 Leu Ser Phe Asn Met Asp His Leu Ile His Pro His Arg Asp His Ser
 65 70 75 80
 Lys Glu Lys Lys Arg Ser His Gly Arg Ser Ala Arg Ser Lys Glu Arg
 85 90 95
 Ser Gly Lys Glu Asp Ile Thr Ala Ala Pro Ala Lys Leu Asp Val Ile
 100 105 110
 Val Glu Ser Pro Pro Leu Val Cys Tyr Gly Thr Pro Ala Asn Ser Thr
 115 120 125
 Gly Ala Leu Phe Ser Gly Arg Leu Arg Ile Thr Val Ser Glu Gln Ala
 130 135 140

12270

Asn Ala Val Thr Leu Asp Lys Phe Asp Met Lys Leu Leu Thr Lys Ile
 145 150 155 160
 Thr Thr Lys Lys Pro Val Ser Arg Glu Cys Pro Asn Cys Ala Ser Arg
 165 170 175
 Thr Glu Glu Leu Thr Ser Trp Asn Phe Leu Thr Glu Ser Leu Thr Leu
 180 185 190
 Lys His Gly Glu His Asp Phe Pro Phe Ser Tyr Leu Phe Pro Gly His
 195 200 205
 Leu Pro Ala Cys Cys Asn Gly Ser Leu Gly Gln Val Glu Tyr Tyr Leu
 210 215 220
 Ser Ala Arg Ala His Asp Thr Asn Gly Glu Glu Tyr Thr Tyr Arg Met
 225 230 235 240
 Pro Leu His Ile Lys Arg Ala Ile Leu Pro Gly Asn Asp Lys Ser Ser
 245 250 255
 Ile Arg Ile Phe Pro Pro Thr Asn Leu Thr Gly Arg Ile Val Leu Pro
 260 265 270
 Ser Val Val His Pro Ile Gly Thr Phe Pro Val Gln Met Thr Leu Ser
 275 280 285
 Gly Val Val Asp Lys Gly Glu Glu Thr Gln Thr Arg Trp Arg Leu Arg
 290 295 300
 Lys Met Met Trp Arg Ile Glu Glu His Gln Lys Ile Ile Ser Ala Ala
 305 310 315 320
 Cys Ser Lys His Ala His Lys Ile Gly Gly Glu Gly Lys Gly Val Leu
 325 330 335
 His Gln Glu Thr Arg Ile Ile Gly His Lys Glu Glu Lys Asp Gly Trp
 340 345 350
 Lys Thr Asp Phe Asp Thr Ala Gly Gly Glu Ile Ser Met Gln Phe Glu
 355 360 365
 Ala Ser Ile Asn Pro Thr Cys Asn Pro Val Cys Asp Leu Glu Val Pro
 370 375 380
 Asn Gly Leu Glu Val Lys His Asn Leu Val Ile Glu Leu Ile Val Ala
 385 390 395 400
 Glu Glu Phe Cys Pro Asn Arg Asn Thr Arg Ser Ile Thr Pro Thr Gly
 405 410 415
 Ala Ala Arg Val Leu Arg Met Gln Phe His Leu His Val Thr Glu Arg
 420 425 430
 Ser Gly Leu Gly Ile Ser Trp Asp Glu Glu Met Pro Pro Val Tyr Glu
 435 440 445
 Asp Val Pro Ala Ser Pro Pro Gly Tyr Thr Met Leu Asp Gly Asn Ser
 450 455 460
 Ile Met Glu Asp Tyr Ser Gly Ser Pro Leu Ser Leu Pro Asp Tyr Glu
 465 470 475 480
 Glu Leu Glu Arg Met Glu Ser Leu His Leu Asp Ser Asp Ser Ala Gly
 485 490 495
 Ser Val Arg Gly Arg Ser Arg Leu Thr Thr Glu Asp Leu Thr Ala Glu
 500 505 510
 Pro Met Glu Pro Gly Ser Arg Ser Arg Gly Leu Ser Ala Asp Ser Gly
 515 520 525
 Ala Ser Glu His
 530

<210> 31683

<211> 62

<212> PRT

<213> A.fumigatus

<400> 31683

Ser Ala Leu Thr Ala Gly Lys Leu Ser Ala Cys Thr Ala Tyr Tyr Ser
 1 5 10 15
 Glu Gly Gly Leu Ser Leu Ala His Thr Ser Val Ile Gln Lys Leu Gly
 20 25 30
 Asp Ser Cys Val Val Leu Ala Ser Asp Leu Phe Asp Lys Arg Ala Phe
 35 40 45
 Phe Ala Ser Ser Pro Arg Gly Cys His Ile Ile Gly Gly Leu
 50 55 60

<210> 31684

<211> 117

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (6)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31684

Ala Gln Pro Gly Pro Xaa Arg Phe Gln Phe Gly Leu Ile Cys Glu His
 1 5 10 15
 Phe Thr Leu Glu Arg His Gly Lys Val Lys Pro Ser Leu Phe Leu Leu
 20 25 30
 Trp Thr His Gly Leu Asp Gly Arg Lys Asp Glu Leu Ile Pro Phe Thr
 35 40 45
 Tyr Val Arg Gly Ser Gly Pro Glu Phe Trp Tyr Ile Asp Leu Glu Asp
 50 55 60
 Pro Arg Thr Leu Gly Ala Pro Gly Gln Lys Leu Gln Val Ala Ala Leu
 65 70 75 80
 Thr Glu Phe Gly Asp Arg Lys Asp Cys Arg Gly Ile Ser Val Asp Glu
 85 90 95
 Tyr Lys Ala Asn Val Gly Arg Val Arg Met Ala Phe Ser Phe Val Ala
 100 105 110
 Glu Trp Ala Leu Val
 115

<210> 31685

<211> 73

<212> PRT

<213> A.fumigatus

<400> 31685

Ile Asp Arg His Arg Tyr Ser Asp Asp Gln Phe Glu Tyr Arg His Val
 1 5 10 15
 Gln Leu Pro Lys Asn Met Leu Lys Lys Ile Pro Ala Asp Tyr Phe Asp
 20 25 30
 Ser Ser Lys Gly Thr Leu Lys Leu Trp Glu Glu Glu Trp Arg Ala
 35 40 45
 Leu Gly Ile Thr Gln Val Leu Arg Ser Gly Leu Arg Lys Leu Ala Ser
 50 55 60
 Ile Ser Leu Trp Leu Ile Leu Met Leu
 65 70

<210> 31686

<211> 472
 <212> PRT
 <213> A.fumigatus

<400> 31686

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Arg Ile Pro Glu Leu Val Asp His Arg Asn Thr Met Asn Glu Thr Pro
1      5      10      15
Thr Ala Thr Gly Leu Pro Ile Ala Phe His Gly Thr Ile Ile His Ser
      20      25      30
Leu Ser Pro Thr His Leu Gln Ile Leu Pro Asn Thr Phe Leu Leu Val
      35      40      45
Asp Ile Ala Gly Asn Ile Gln Ala Leu Val Pro Asn Thr Asp Pro Ser
      50      55      60
Thr Ile Asn Thr Leu Ile Val Asp Asn Gly Tyr Ala Pro Asp Val Phe
65      70      75      80
Pro Val Lys His Leu Pro Ser Ser Ser Phe Leu Ile Pro Gly Phe Ile
      85      90      95
Asp Thr His Asn His Ala Pro Gln Trp Ala Gln Arg Gly Val Trp Arg
      100     105     110
Gly Ile Ser Leu Leu Asp Trp Leu Glu Lys Val Thr Phe Ala His Glu
      115     120     125
Ala Lys Phe Glu Asp Ala Glu Tyr Ala Lys Arg Thr Tyr Ser Ala Ala
      130     135     140
Val Asp Gly Leu Leu Arg Gln Gly Ile Thr Thr Ala Ser Tyr Tyr Ala
145     150     155     160
Ser Lys His Leu Ala Ala Thr Lys Ile Leu Ala Glu Val Cys Arg Ser
      165     170     175
Lys Gly Gln Arg Ala Leu Val Gly Arg Cys Asn Met Asn Arg His Ala
      180     185     190
Pro Gly Trp Tyr Arg Asp Leu Asn Ala Glu Val Ser Val Lys Glu Thr
      195     200     205
Arg Glu Phe Ile Val Trp Met Arg Glu Phe Asn Gly Thr Asp Asp Arg
      210     215     220
Pro Leu Val Asn Ala Val Ile Thr Pro Arg Phe Ala Ile Ser Cys Asp
225     230     235     240
Glu Glu Val Leu Ser Gly Leu Gly Ala Leu Ala Ala Ala Asn Pro Asp
      245     250     255
Leu Arg Ile Gln Thr His Phe Asn Glu Ala Gln Gln Glu Met Glu Phe
      260     265     270
Thr Arg Gln Leu Phe Pro Asp Phe Ala His Glu Ala Glu Leu Tyr Thr
      275     280     285
Arg Phe Gly Leu Leu Ser Glu Arg Ser Ile Leu Ala His Cys Ile Phe
      290     295     300
Leu Arg Glu Glu Glu Met Glu Thr Leu Ala Arg Leu Arg Cys Gly Val
305     310     315     320
Ala His Cys Pro Val Pro Asn Thr Thr Met Gln Ala Phe Met Val Ala
      325     330     335
Pro Val Arg Glu Tyr Leu Arg Arg Gly Ile Lys Val Gly Leu Gly Thr
      340     345     350
Asp Ser Gly Gly Gly His Ser Ile Ser Met Leu Glu Val Met Lys Gln
      355     360     365
Ala Phe Val Val Ser Thr Ala Arg Ala Thr Glu Thr Arg Gly Ala Asp
      370     375     380
Pro Ala Leu Ser Val Ala Glu Cys Phe Phe Leu Ala Thr Leu Gly Gly
385     390     395     400
Ala Gln Val Cys Gly Leu Glu Glu Arg Val Gly Asn Phe Ala Val Gly

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12273

405 410 415
 Lys Glu Phe Asp Ala Leu Glu Ile Arg Thr Gly Glu Gly Val Glu Met
 420 425 430
 Ser Val Met Ala Pro Val Glu Glu Glu Asp Ser Ile Glu Val Ile Phe
 435 440 445
 Glu Lys Phe Leu Met Thr Gly Asp Asp Arg Asn Ile Ala Lys Val Tyr
 450 455 460
 Val Arg Gly Arg Ala Val Lys Asp
 465 470

<210> 31687
 <211> 80
 <212> PRT
 <213> A.fumigatus

<400> 31687
 Val Arg Phe Val Ser Val Val Leu Phe Val Leu Thr Arg Ser Asp Phe
 1 5 10 15
 Val Leu Ser Ala Ala Leu Asp Ser Gly Val Ala Val Ala Thr Val Ile
 20 25 30
 Ile Phe Phe Cys Ile Met Leu Pro Ala Gly Pro Leu His Trp Trp Gly
 35 40 45
 Asn Ile Val Tyr Arg Lys Thr Ala Asp Gly Met Gly Thr Pro Leu Lys
 50 55 60
 Pro Leu Pro Ser Leu Gly Tyr Phe Gly Pro Pro Lys Gly Lys Trp Glu
 65 70 75 80

<210> 31688
 <211> 115
 <212> PRT
 <213> A.fumigatus

<400> 31688
 Val His Pro Cys His Ser Lys Thr Arg Ala Asp Arg Gln Gly Ala Leu
 1 5 10 15
 Gly Pro Gly Arg Asn Phe Ser Pro Gly Gln Ile Tyr Gly Asn Leu Leu
 20 25 30
 Trp Phe Phe Leu Ala Gly Pro Val Val Ile Val Ile Thr Phe Leu Leu
 35 40 45
 Gly Arg Arg Trp Lys Arg Phe Asn Lys Ile Ser Trp Pro Val Ala Phe
 50 55 60
 Gly Ala Met Ser Leu Val Pro Pro Ala Thr Gly Ile Asn Phe Ser Ser
 65 70 75 80
 Trp Trp Val Val Asn Val Leu Phe Asn Gly Ile Ile Lys Arg Arg Lys
 85 90 95
 Pro Ala Trp Trp Ser Lys Tyr Ser Glu Ser Gly Ser Ser Leu Trp Cys
 100 105 110
 Cys Leu Tyr
 115

<210> 31689
 <211> 115
 <212> PRT
 <213> A.fumigatus

<400> 31689

12274

Leu Ser Arg Phe Val Ala Asp Met Lys Leu Ala His Tyr Leu His Ile
 1 5 10 15
 Ala Pro Arg Thr Leu Phe Met Ala Gln Gly Leu Ala Thr Leu Val Gly
 20 25 30
 Ala Ile Val Gln Cys Gly Val Thr Val Phe Met Val Thr Arg Phe Asp
 35 40 45
 Asn Ile Cys Thr Pro Asp Ala Asp Gly Gly Phe Thr Cys Pro His Gly
 50 55 60
 Arg Val Thr Tyr Ser Ala Ser Leu Ile Trp Gly Lys Cys Ile His Ala
 65 70 75 80
 Thr Pro Lys Leu Val Leu Thr Asp Lys Ala Pro Trp Val Leu Asp Glu
 85 90 95
 Thr Phe Leu Gln Val Lys Ser Met Val Thr Phe Ser Gly Ser Phe Ser
 100 105 110
 Leu Asp Leu
 115

<210> 31690

<211> 201

<212> PRT

<213> A.fumigatus

<400> 31690

Ala Arg Ala Leu Glu Ala Ser Arg Glu Ser Arg Ala Arg Gly Arg Arg
 1 5 10 15
 Arg Glu Gly Glu Glu Gly Glu Glu Gly Glu Glu Glu Glu Gly Glu
 20 25 30
 Ala Arg Arg Arg Ala Arg Gly Gly Gln Leu Ala Gly Arg Val Gly Ala
 35 40 45
 Ala Gly Gly Ala Ala Arg Ala Gly Gly Arg Val Thr Ser Trp Arg Glu
 50 55 60
 Pro Leu Gly Gln Ala Gly Arg Arg Gln Ala Arg Ala Met Asp
 65 70 75 80
 Arg Arg Trp Pro Ser Asp Thr Leu Ala Gly Thr Gly Gly Asp Gln Leu
 85 90 95
 Ala Gly Ala Arg Gln Gly Pro Thr Pro Gly Arg Glu Thr Pro Arg Arg
 100 105 110
 Thr Arg Glu Ala Pro Glu Val Thr Ser Trp Pro Ala Arg Ala Arg Pro
 115 120 125
 Cys Arg His Arg Arg Ala Ala Arg Arg Leu Arg Gly His Leu Gln Arg
 130 135 140
 His Ala His Gly Arg Arg Pro Arg Arg Met Pro Ala Trp Pro Ala Gly
 145 150 155 160
 Gly Ile His Pro Trp Gly Tyr Ala Asp Thr His Pro Ser Ile His Ile
 165 170 175
 Tyr Met Cys Ile Cys Thr Arg Ile Pro Arg His Leu His Gly Gly
 180 185 190
 Arg Ser Ala Trp Pro Thr Gly Ala Ile
 195 200

<210> 31691

<211> 237

<212> PRT

<213> A.fumigatus

<400> 31691

Thr Ala Arg Gly Ser Pro Val Pro Thr Arg Ala Arg Ala Arg Arg Pro
 1 5 10 15
 Thr Gly His Leu Trp Arg Leu Pro Cys Pro Ser Gly Cys Leu Ser Thr
 20 25 30
 Arg Cys Arg Ser Leu Ala Arg Ala Gly Gln Leu Val Thr Pro Gly Ala
 35 40 45
 Cys Glu Cys Val Ala Arg Pro Ala Ser Val His Gly Ala Arg Pro Cys
 50 55 60
 Leu Pro Ala Ala Gly Leu Pro Lys Gly Leu Pro Pro Thr Gly His Pro
 65 70 75 80
 Ala Ala Arg Pro Arg Gly Ala Pro Arg Arg Ala Asn Ser Ala Ser Gln
 85 90 95
 Leu Ala Ala Ala Arg Ser Pro Ala Arg Leu Pro Leu Leu Leu Leu Leu
 100 105 110
 Ala Leu Leu Ala Leu Leu Ala Leu Pro Ser Ser Pro Ser Arg Ala Arg
 115 120 125
 Leu Ser Ala Arg Leu Glu Gly Ala Arg Leu Pro Gly Pro Gln Pro Pro
 130 135 140
 Ser Thr Asp Ser Pro Gln Pro Gly Pro Ser Arg Ala Pro Pro Ala Ala
 145 150 155 160
 Leu Leu Leu His Ile Pro Thr Asp Leu Ala Arg Pro Ile Ile Val Arg
 165 170 175
 Ala Asn Val Pro Gly Ser Glu Arg Arg Ser Gly Gly Arg Pro Thr Cys
 180 185 190
 Ala Gly Arg Pro Arg Ala Ala Arg Ala Ala Met Cys Pro Ser Gln Leu
 195 200 205
 Val Thr Ala Leu Arg His Gln Ala Ala Ala Ala Arg Gly Ser Pro Ala
 210 215 220
 Arg Arg Val Leu Asn Arg Pro Ala Gly Arg Tyr Tyr Leu
 225 230 235

<210> 31692

<211> 300

<212> PRT

<213> A.fumigatus

<400> 31692

Met Ala Pro Val Gly His Ala Asp Leu Pro Pro Cys Arg Cys Arg Gly
 1 5 10 15
 Gly Met Arg Val His Met His Ile Tyr Ile Trp Met Asp Gly Trp Val
 20 25 30
 Ser Ala Tyr Pro His Gly Trp Met Pro Pro Ala Gly His Ala Gly Ile
 35 40 45
 Arg Arg Gly Arg Arg Pro Cys Ala Cys Arg Cys Lys Cys Pro Arg Arg
 50 55 60
 Arg Arg Ala Ala Leu Arg Cys Arg Gln Gly Arg Ala Arg Ala Gly Gln
 65 70 75 80
 Leu Val Thr Ser Gly Ala Ser Arg Val Arg Leu Gly Val Ser Arg Pro
 85 90 95
 Gly Val Gly Pro Trp Arg Ala Pro Ala Asn Trp Ser Pro Pro Val Pro
 100 105 110
 Ala Ser Val Ser Leu Gly Gln Arg Leu Ser Met Ala Arg Ala Leu Ala
 115 120 125
 Cys Arg Arg Pro Ala Cys Pro Arg Gly Ser Arg Gln Leu Val Thr Leu
 130 135 140
 Pro Pro Ala Arg Ala Ala Pro Pro Ala Ala Pro Thr Arg Pro Ala Asn

12276

145		150		155		160										
Trp	Pro	Pro	Arg	Ala	Arg	Leu	Arg	Ala	Ser	Pro	Ser	Ser	Ser	Ser	Ser	Ser
		165		170		175										
Pro	Ser	Ser	Pro	Ser	Ser	Pro	Ser	Leu	Arg	Arg	Pro	Arg	Ala	Arg	Asp	
		180		185		190										
Ser	Leu	Leu	Ala	Ser	Arg	Ala	Arg	Ala	Tyr	Arg	Ala	Pro	Ser	Pro	Pro	
		195		200		205										
Gln	Pro	Thr	Pro	Leu	Asn	Arg	Asp	Pro	Arg	Ala	Arg	Arg	Arg	Arg	Pro	
		210		215		220										
Phe	Ser	Tyr	Thr	Tyr	Pro	Pro	Thr	Ser	Pro	Gly	Pro	Ser	Ser	Cys	Ala	
225				230		235									240	
Gln	Thr	Phe	Pro	Gly	Pro	Asn	Val	Val	Pro	Gly	Gly	Gly	Pro	Pro	Ala	
				245		250									255	
Pro	Ala	Asp	Arg	Ala	Pro	Pro	Val	Arg	Pro	Cys	Ala	Pro	Ala	Asn	Trp	
				260		265										
Ser	Leu	Pro	Phe	Val	Thr	Arg	Arg	Arg	Arg	Ala	Gly	Pro	Pro	Arg		
		275				280										
Ala	Ala	Ser	Ser	Thr	Ala	Arg	Leu	Glu	Gly	Thr	Thr					
		290				295					300					

<210> 31693

<211> 303

<212> PRT

<213> A.fumigatus

<400> 31693

Leu	Ala	Arg	Trp	His	Arg	Trp	Ala	Met	Pro	Thr	Tyr	Leu	Arg	Ala	Asp
1				5					10					15	
Val	Gly	Gly	Gly	Cys	Gly	Cys	Ile	Cys	Thr	Tyr	Ile	Tyr	Gly	Trp	Met
			20					25					30		
Gly	Gly	Cys	Leu	Arg	Ile	Pro	Thr	Asp	Gly	Cys	Arg	Arg	Arg	Ala	Met
		35				40					45				
Pro	Ala	Ser	Val	Glu	Ala	Asp	Gly	His	Val	Arg	Val	Ala	Ala	Ser	Val
		50				55					60				
Pro	Val	Asp	Gly	Ala	Arg	Leu	Ser	Gly	Ala	Asp	Lys	Gly	Ala	Arg	Ala
65				70					75						80
Pro	Ala	Asn	Trp	Ser	Pro	Leu	Ala	Pro	Pro	Val	Ser	Val	Trp	Val	Ser
				85				90						95	
Leu	Asp	Pro	Val	Ser	Val	Pro	Gly	Ala	Arg	Arg	Pro	Thr	Gly	His	Pro
			100					105					110		
Arg	Cys	Leu	Arg	Val	Cys	Arg	Ser	Ala	Ser	Val	Cys	Pro	Trp	Arg	Ala
		115				120						125			
Pro	Leu	Pro	Ala	Gly	Gly	Arg	Pro	Ala	Gln	Gly	Ala	Pro	Ala	Asn	Trp
		130				135					140				
Ser	Pro	Cys	Arg	Pro	Pro	Ala	Arg	Arg	Pro	Pro	Pro	Arg	Gln	Leu	Gly
145				150					155						160
Gln	Pro	Thr	Gly	Arg	Arg	Ala	Leu	Ala	Cys	Ala	Pro	Pro	Pro	Pro	Pro
				165					170						175
Pro	Pro	Arg	Pro	Pro	Arg	Pro	Pro	Arg	Pro	Pro	Phe	Val	Ala	Leu	Ala
			180					185					190		
Arg	Ala	Thr	Leu	Cys	Ser	Pro	Arg	Gly	Arg	Ala	Pro	Thr	Gly	Pro	Pro
		195				200						205			
Ala	Pro	Leu	Asn	Arg	Leu	Pro	Ser	Thr	Gly	Thr	Leu	Ala	Arg	Ala	Ala
		210				215					220				
Gly	Gly	Pro	Ser	Pro	Thr	His	Thr	His	Arg	Pro	Arg	Pro	Ala	His	His
225					230				235						240

Arg Ala Arg Lys Arg Ser Arg Val Arg Thr Ser Phe Arg Gly Glu Ala
 245 250 255
 His Leu Arg Arg Gln Thr Ala Arg Arg Pro Cys Gly His Val Pro Gln
 260 265 270
 Pro Thr Gly His Cys Pro Ser Ser Pro Gly Gly Gly Gly Ala Arg Val
 275 280 285
 Pro Arg Ala Pro Arg Pro Gln Pro Pro Gly Trp Lys Val Leu Pro
 290 295 300

<210> 31694

<211> 147

<212> PRT

<213> A.fumigatus

<400> 31694

Trp Lys Asp Gly Ala Gly Gly Trp Ile Trp Trp Asn Thr Asp Asp Asp
 1 5 10 15
 Val His Asp Gly Val Pro Ile Arg Gly Val Ser Gly Met Gly Trp Gly
 20 25 30
 Gly Arg Gly Glu Glu Val Ala Glu Cys Gly Gly Cys Gly Glu Ala Gly
 35 40 45
 Cys Gly Gly Glu Ser Gly Gly Gly Gly Val Gly Ala Glu Asp Val Cys
 50 55 60
 Gly Trp Val Glu Val Glu Arg Asn Ala Gly Ala Val His Gly Glu Gly
 65 70 75 80
 Glu Leu Gly Pro Ala Arg Glu Gly Ser Gln Thr Pro Val Leu Gln Gly
 85 90 95
 Cys Ala Gln Cys Val Tyr Val Gln Ala Trp Arg Glu Glu Gly Ala Leu
 100 105 110
 Leu Gly Ala Phe Leu Gly Val Phe Asp Leu Glu Val Gly Gly Glu Asn
 115 120 125
 Asp Asp Leu Val Pro Val Ala Gly Leu Asp Ser Glu Ser Val Arg Phe
 130 135 140
 Trp Gly Trp
 145

<210> 31695

<211> 138

<212> PRT

<213> A.fumigatus

<400> 31695

Ser Ser Arg Ser Thr Glu Thr His His Gln Pro Gln Asn Arg Thr Leu
 1 5 10 15
 Ser Leu Ser Arg Pro Ala Thr Gly Thr Lys Ser Ser Phe Ser Pro Pro
 20 25 30
 Thr Ser Arg Ser Asn Thr Pro Arg Lys Ala Pro Arg Arg Ala Pro Ser
 35 40 45
 Ser Arg Gln Ala Trp Thr Tyr Thr His Cys Ala Gln Pro Cys Lys Thr
 50 55 60
 Gly Val Trp Leu Pro Ser Arg Ala Gly Pro Asn Ser Pro Ser Pro Cys
 65 70 75 80
 Thr Ala Pro Ala Leu Arg Ser Thr Ser Thr His Pro His Thr Ser Ser
 85 90 95
 Ala Pro Thr Pro Pro Pro Pro Leu Ser Pro Pro Gln Pro Ala Ser Pro
 100 105 110

12278

His Pro Pro His Ser Ala Thr Ser Ser Pro Arg Pro Pro Gln Pro Ile
 115 120 125
 Pro Glu Thr Pro Leu Met Gly Thr Pro Ser
 130 135

<210> 31696
 <211> 185
 <212> PRT
 <213> A.fumigatus

<400> 31696
 Gly Gln Ser Arg Leu His Gly Pro Ser Arg Ala Val Gln Pro Arg His
 1 5 10 15
 Ile Thr Ser Pro Arg Thr Gly Arg Ser Arg Cys Arg Asp Pro Arg Arg
 20 25 30
 Glu Pro Asn His His Ser Arg Pro Arg Pro Pro Asp Arg Thr His Gln
 35 40 45
 Glu Arg His Arg Gly Glu Pro Leu Pro Pro Ala Arg Pro Gly Arg Thr
 50 55 60
 His Ile Ala His Ser Pro Ala Lys Arg Val Ser Gly Cys Pro Arg Ala
 65 70 75 80
 Arg Ala Pro Ile His Leu Pro His Ala Gln His Pro Arg Tyr Ala Pro
 85 90 95
 Pro Arg Pro Ile His Thr His Leu Arg His Arg His His Pro Leu Arg
 100 105 110
 Ser Leu Arg Arg Ser Pro Pro Arg His Ile Arg Arg Thr Pro Arg Pro
 115 120 125
 Pro Pro Leu Ala His Pro Ser Pro Tyr Gln Lys Pro Pro Leu Trp Glu
 130 135 140
 Pro Arg His Glu Arg His His Gln Cys Ser Thr Lys Ser Ser Leu Arg
 145 150 155 160
 Arg Arg Pro Ser Thr Ser Pro Pro Pro Ala Gly Gly Gln Asn His
 165 170 175
 Ser Pro Ser Glu Glu Pro Pro Pro
 180 185

<210> 31697
 <211> 825
 <212> PRT
 <213> A.fumigatus

<400> 31697
 Tyr Ser Val Leu Val Ala Ala Pro Ile Val Arg Ser Phe Pro Gln Val
 1 5 10 15
 Val Arg Ser Asn Arg Pro Arg Ala Ala Val Asp Asp Ala Arg Arg Leu
 20 25 30
 Gly Val Arg Thr Gly Arg Thr Thr Ile Ser Asp Lys Ile Cys Val Leu
 35 40 45
 Arg Ser Gln Tyr Glu Ala Lys Gly Phe Ser Thr Ser Thr Ser Arg Trp
 50 55 60
 Gln Glu Lys Ile Leu Asp Arg Thr Arg Asn Ile Gly Ile Ile Ala His
 65 70 75 80
 Ile Asp Ala Gly Lys Thr Thr Thr Thr Glu Arg Met Leu Tyr Tyr Ser
 85 90 95
 Gly Phe Thr Arg Arg Ile Gly Asp Val Asp Glu Gly Ser Thr Val Thr
 100 105 110

Asp Phe Leu Pro Ala Glu Arg Ala Arg Gly Ile Thr Ile Gln Ser Ala
 115 120 125
 Ala Ile Thr Phe His Trp Pro Pro Thr Ala Gly Glu Ser Asp Lys Gln
 130 135 140
 Glu Val Gln Thr Pro Arg Ser Ala Ser Ser His Thr Ile Asn Leu Ile
 145 150 155 160
 Asp Thr Pro Gly His Ala Asp Phe Thr Phe Glu Val Leu Arg Ser Leu
 165 170 175
 Arg Ile Leu Asp Gly Ala Val Cys Ile Leu Asp Gly Val Ala Gly Val
 180 185 190
 Glu Ala Gln Thr Glu Arg Val Trp His Gln Ala Ser Thr Tyr Arg Ile
 195 200 205
 Pro Arg Ile Val Tyr Val Asn Lys Leu Asp Arg Asp Gly Ala Ala Phe
 210 215 220
 Gly Arg Thr Val Arg Glu Val Gly Ser Arg Leu Gly Ala Phe Pro Ala
 225 230 235 240
 Val Cys Gln Ile Pro Trp Phe Glu Asn Gly Asn Gly Arg Phe Val Gly
 245 250 255
 Val Ala Asp Ala Ile Asn Leu Gln Gly Leu Arg Trp Glu Glu Gly Asp
 260 265 270
 Gly Lys Val Val Lys Met Leu Ser Leu Glu Gln Leu Tyr Ala Glu Glu
 275 280 285
 Ala Gln Leu Gly Lys Glu Leu Arg Arg Ala Arg Ile Ala Leu Val Glu
 290 295 300
 Leu Leu Ser Glu His Asp Glu Ala Met Val Glu Lys Phe Leu Glu Cys
 305 310 315 320
 Asp Glu Asn His Leu Ala Val Pro Pro Gln Asp Ile Leu Glu Ser Leu
 325 330 335
 Arg Arg Cys Leu Leu Glu Glu Ser Gly Ser Asn Ile Val Pro Ile Phe
 340 345 350
 Ala Gly Ala Ser Phe Arg Asn Ile Gly Val Gln Pro Leu Leu Asp Ala
 355 360 365
 Val Val Asn Leu Leu Pro Ser Pro Leu Glu Ala Pro Asp Pro Glu Val
 370 375 380
 Ser Ile Gly Gly Val Gln Gly Gly Leu Gln Arg Leu Leu Ser Gly Glu
 385 390 395 400
 Leu Leu Val Glu Ser Gly Glu Lys Ser Gln Ser Pro Lys Gly Lys Gln
 405 410 415
 Arg Lys Ser Val Ala His Ala Glu Ser Gln Asn Val Met Lys Asn Leu
 420 425 430
 Gln Gly Cys Ala Leu Ala Phe Lys Val Val Asn Asp Ala Lys Arg Gly
 435 440 445
 Val Leu Val Tyr Val Arg Val Tyr Ser Gly Ser Leu Asp Arg Asn Cys
 450 455 460
 Val Leu Phe Asn Thr Asn Leu Asn Val Ser Glu Arg Ala Pro Arg Leu
 465 470 475 480
 Leu Lys Met Tyr Ala Asn Asp Ala Val Glu Val Asp Ser Ile Pro Glu
 485 490 495
 Gly His Ile Gly Val Val Val Gly Leu Lys His Ala Arg Thr Gly Asp
 500 505 510
 Thr Leu Val Ser Tyr Ala Gly Asn Lys Pro Thr Pro Pro Lys Pro Leu
 515 520 525
 Asn Thr Leu Gln Leu Arg Pro Ile Asn Val Pro Pro Pro Val Phe Phe
 530 535 540
 Ala Ser Val Glu Pro His Ser Leu Ser Glu Glu Lys Lys Val Gln Glu
 545 550 555 560

Cys Leu Ala Leu Leu Leu Arg Glu Asp Pro Ser Leu His Val Ala Val
 565 570 575
 Asp Glu Asp Ser Gly Gln Thr Leu Leu Ser Gly Met Gly Glu Leu His
 580 585 590
 Leu Glu Ile Ala Arg Asp Arg Leu Ile Asn Asp Leu Lys Ala Lys Ala
 595 600 605
 Thr Met Gly Arg Ile Glu Ile Gly Tyr Arg Glu Thr Pro Leu Gly Pro
 610 615 620
 Ser Pro Ala Val Thr Lys Ile Phe Asp Lys Glu Ile Ala Gly Arg Lys
 625 630 635 640
 Gly Lys Ala Gly Cys Thr Ala Leu Val Glu Pro Phe Asn Arg Asp Thr
 645 650 655
 Ser Pro Ala Pro Glu Pro Asp Ala Leu Ala Val Glu Thr Arg Asp Gly
 660 665 670
 Asn Gln Ile Ile Ile Leu Ala Pro Asp Leu Gln Ile Glu His Thr Lys
 675 680 685
 Lys Gly Thr Glu Glu Ser Pro Phe Leu Pro Pro Gly Leu Asp Val His
 690 695 700
 Thr Leu Arg Thr Ala Leu Gln Asn Gly Cys Leu Ala Ala Leu Ala Arg
 705 710 715 720
 Gly Pro Gln Phe Thr Phe Pro Met His Ser Thr Arg Val Thr Leu His
 725 730 735
 Leu Asp Pro Ser Thr His Ile Phe Gly Thr Asp Thr Thr Pro Ser Ala
 740 745 750
 Leu Ser Ala Ala Ala Arg Leu Ala Thr Ser Ala Ala Leu Arg Asp Leu
 755 760 765
 Leu Pro Ser Pro Thr Pro Ala His Thr Arg Asn Pro Pro Tyr Gly Asn
 770 775 780
 Pro Val Met Asn Val Ile Ile Ser Val Pro Pro Asn Pro Ala Ser Gly
 785 790 795 800
 Ala Val Leu Pro Leu His Leu Arg Leu Pro Arg Ala Gly Lys Ile Ile
 805 810 815
 Leu Pro Pro Lys Arg Asn Leu Pro Leu
 820 825

<210> 31698

<211> 190

<212> PRT

<213> A.fumigatus

<400> 31698

Asn Ser Gly Ser Leu Ser Trp Ala Ser Leu Gly Met Leu Lys Ile Thr
 1 5 10 15
 Met Ala Asn Pro Met Pro Lys Asp Gln Gly Tyr Gly His Gly Leu Cys
 20 25 30
 Asn Lys Asn Lys Cys Leu Val Gln Lys Arg Ala Ser Val Lys Gly Lys
 35 40 45
 Arg Glu Ile Asn Pro Leu Glu Gly Pro Pro Arg Asn Glu Ala Asn Pro
 50 55 60
 Pro Ala Thr His Gln Lys Lys Gln Pro Thr Lys Gln Ala Lys Lys Ala
 65 70 75 80
 Ala Gly Thr Ala Pro Gln Leu Ile Ile Phe Lys Met Lys Phe Ile Ala
 85 90 95
 Val Ala Asn Ala Leu Ile Val Ala Leu Cys Ser His Val Ala Leu Ala
 100 105 110
 Ser Thr Ile Gly His Pro Ser Leu Met Pro Arg Glu Asp Ala Leu Ser

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<210> 31699
<211> 170
<212> PRT
<213> A.fumigatus
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<210> 31700
<211> 83
<212> PRT
<213> A.fumigatus
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<400> 31700
Lys Arg Phe Ser Thr Phe Ala Val Leu Gly Ala Ser Asp Phe Tyr His
1      5      10      15
Ser Gly Leu Gly Pro Gln Pro Ser Lys Leu Glu Asn Arg Asn Ser Arg
      20      25      30
Gly Glu Thr Leu Asn Leu Arg Gln Ala Leu Lys Gly Phe Val His Thr
      35      40      45
Arg Thr Val Tyr Arg Met Ala Asp Leu Asp Thr Gly Lys Ile Lys
      50      55      60
Asn Trp Arg Ser Ile Val Thr Leu Ile Val Phe Ile Ile Thr Ser Met
65      70      75      80
Ser Ala Arg

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<210> 31701
 <211> 229
 <212> PRT
 <213> A.fumigatus

<400> 31701
 Met Trp Thr Ala Ser Asp Pro Lys Arg Leu Thr Leu Ala Asp Ile Ile
 1 5 10 15
 Val Leu Phe Pro Phe His Ile Pro Ile Tyr Val Pro Arg Ala Phe Ser
 20 25 30
 Asn Ala Val Leu Asp Phe Leu Ser Lys Leu Arg Ile Ile Pro Pro Arg
 35 40 45
 Glu Asn Arg Phe Gln Pro Asp Asp Gln Glu Asp Ala Asn Gly Lys Leu
 50 55 60
 Lys Pro Tyr Val Arg Met Asn Phe Pro Leu Asn Phe Val Thr Ala Pro
 65 70 75 80
 Leu Ile Ala Asp Leu Phe Leu Leu Ala Ile Met Ala Ile Gly Arg Glu
 85 90 95
 Glu Val Arg Gly Gly Thr Leu Gly Ala Asp Asn Ile Ile Pro Ile Asp
 100 105 110
 Ile Met Ala Phe Phe Leu Thr Leu Ala Tyr Ile Ala Ile Ser Ile Asp
 115 120 125
 Ala Ser Gly Leu Ile Arg Tyr Leu Ala Phe Lys Val Leu Gln Lys Gly
 130 135 140
 Gly Arg Val Gly His Arg Leu Phe Phe Tyr Leu Tyr Ala Phe Phe Phe
 145 150 155 160
 Gly Leu Gly Ser Phe Ile Gly Asn Asp Pro Ile Ile Leu Ser Gly Thr
 165 170 175
 Ala Phe Leu Ala Tyr Met Thr Arg Val Ser Ser Asn Ile Val His Pro
 180 185 190
 Arg Ala Trp Ile His Ser Gln Phe Ala Val Ala Asn Ile Ala Ser Ala
 195 200 205
 Ile Leu Val Ser Ser Asn Pro Thr Asn Leu Val Ala Asn Gly Gly Leu
 210 215 220
 Pro Gly Gln Ile His
 225

<210> 31702
 <211> 336
 <212> PRT
 <213> A.fumigatus

<400> 31702
 Leu Glu Tyr Gln Ala Thr Ser Ser Ile Gln Glu Pro Gly Phe Thr Val
 1 5 10 15
 Ser Leu Leu Leu Pro Ile Ser Pro Pro Arg Ser Leu Ser Pro Arg Thr
 20 25 30
 Gln Pro Ile Ser Leu Leu Thr Gly Ala Phe Gln Val Lys Phe Ile Glu
 35 40 45
 Tyr Thr Ala Asn Met Ile Val Pro Val Val Val Pro Ala Ile Val Leu
 50 55 60
 Phe Pro Phe Leu Leu Tyr Ile Ile Phe Ala Asp Glu Ser Leu Ile Pro
 65 70 75 80
 Pro Ser Ile Lys Met His Glu Leu Thr Glu Glu Glu Lys Glu Lys Lys


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<210> 31703
<211> 230
<212> PRT
<213> A.fumigatus
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Val	Ile	Ala	Thr	Tyr	Leu	Ala	Thr	Lys	Tyr	Leu	Leu	Leu	Leu	Ala	Thr
1				5					10					15	
Thr	Gly	Ala	Asp	Met	Ala	Arg	Thr	Asn	Lys	Arg	Lys	Arg	Arg	Glu	Ala
			20					25					30		
Asp	Cys	Ser	Asp	Asp	Glu	Asp	Pro	Val	Gly	His	Pro	Ser	Gly	Asn	Thr
		35					40					45			
Asn	Gly	Phe	Gly	Val	Ala	Arg	Thr	Leu	Ser	Leu	Leu	His	Asp	Ala	Lys
	50					55				60					
Pro	Gln	Ala	Ala	Asp	Asp	Ser	Ala	Ile	Ala	Thr	Ala	Gly	Ser	Asp	Ala
65					70					75					80
Thr	Pro	Thr	Glu	Gly	Ala	His	Asp	Gln	Ala	Lys	Asp	Gly	Val	Ser	Val
				85				90						95	
Gln	Arg	Pro	Thr	Lys	Lys	Lys	Arg	Val	Asp	Gly	Glu	Lys	Thr	Lys	Tyr
			100					105					110		
Pro	Val	Leu	Thr	Tyr	Val	Glu	Gly	Arg	Leu	Gln	Ser	Ser	Ile	Arg	Ile
		115					120				125				
Ser	Asp	Leu	Gln	Asn	Leu	Leu	Leu	Tyr	Cys	Phe	Ala	Asp	Gly	Ile	Ala
	130					135					140				

12284

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Pro Gln Trp Ile Ser Ile Lys His Ser Gly His Ile Arg Lys Ile Val
145                      150                      155                      160
Val Leu Met Val Pro Gly Leu Glu Met Gly Met Phe Asp Gly Thr Val
                      165                      170                      175
Pro Leu Lys Pro Gln Pro Glu Asp Glu Asp Ser Arg Ser Ser Gln Ala
                      180                      185                      190
Ser Asn Ala Glu Gln Lys Asp Pro Asp Ala Asn Lys Ser Ala Glu Glu
                      195                      200                      205
Asp Glu Asp Lys Ala Asn Phe Leu Arg Trp Lys Gln Gly Leu Pro Leu
                      210                      215                      220
Glu Asp Arg Ser His Arg
225                      230

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<210> 31704

<211> 327

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (2), (6), (23), (57), (104), (263)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31704

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Asn Xaa Leu Lys Arg Xaa Lys Ala Asn Pro Pro Glu Ser Asp Thr Gly
1                      5                      10                      15
Thr Met Arg Arg Arg Phe Xaa Trp Asp Asn Lys Thr Met Glu Glu Arg
                      20                      25                      30
Gln Tyr Trp Phe Ser Tyr Glu Asp Tyr Met Asn Asn Glu Thr Ala Phe
                      35                      40                      45
Ile Lys Ser Met Arg His Leu Ala Xaa Met Gly Ile Ile Phe Val Lys
                      50                      55                      60
Asn Ile Pro Asp Ser Arg Glu Met Val Glu Lys Ile Ala Thr Lys Met
65                      70                      75                      80
Gly Pro Leu Arg Asn Thr Phe Tyr Gly Pro Thr Trp Asp Val Arg Ser
                      85                      90                      95
Val Pro Lys Ala Pro Asn Val Xaa Tyr Thr Asn Val Phe Leu Gly Phe
                      100                     105                     110
His Met Asp Leu Met Tyr Met Asn Glu Pro Pro Gly Phe Gln Leu Leu
                      115                     120                     125
His Cys Leu Glu Asn Ser Cys Glu Gly Gly Glu Ser Leu Phe Val Asp
130                     135                     140
Gly Phe Arg Val Ala Glu Leu Ile Arg Trp Lys Tyr Pro Glu Gln Phe
145                     150                     155                     160
Glu Asp Leu Thr Lys Leu Arg Leu Asn Tyr Glu Tyr Asn His Lys Glu
                      165                      170                      175
His Ile Tyr Asn Asn Ser Trp Pro Val Glu Thr Glu Asp Gly Asp
                      180                      185                      190
Pro Lys Lys Arg Ile Leu His Val Asn Tyr Ser Pro Pro Phe Gln Ala
                      195                      200                      205
Pro Leu Leu Ser Asp Asp Asn His Gln Met Pro Trp Ile Glu Tyr Ser
210                     215                     220
Arg Ala Leu Arg Ala Phe Ala Arg Glu Ile Glu Arg Pro Tyr Asn Val
225                     230                     235                     240
Phe Gln Leu Lys Leu Asn Pro Gly Glu Cys Val Ile Phe Glu Ile Arg
                      245                      250                      255

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12285

Arg Ile Leu His Ala Arg Xaa Gln Phe Asn Thr Asp Lys Gly Lys Arg
 260 265 270
 Trp Leu Ser Gly Thr Tyr Val Asp Glu Asp Asp Val Leu Ser Thr Phe
 275 280 285
 Arg Lys Cys Arg Asn Thr Gln Tyr His Thr Trp His Trp Thr Arg Val
 290 295 300
 Thr Gly Pro Lys His Ala Thr Glu Ala Ala Ala Lys Gly Glu Ala Ile
 305 310 315 320
 Ala Ala Asn His Arg Thr Glu
 325

<210> 31705

<211> 213

<212> PRT

<213> A.fumigatus

<400> 31705

Leu Pro Val Asn Gln Lys Val Cys Ser Val Arg Gln Ser Asn Pro Thr
 1 5 10 15
 Thr Cys Ala Pro Arg His Ser Leu Ser Ser Thr Met Ser Thr Leu Asn
 20 25 30
 Glu Ile Thr Ser Asp Ala Asp Phe Ser Ala His Thr Ser Ser Leu Pro
 35 40 45
 Pro Ser Thr Leu Leu Val Leu Tyr Phe His Ala Pro Trp Ala Ala Pro
 50 55 60
 Cys Ala Gln Met Arg Ala Val Leu Ser Ala Leu Ala Ser Gln His Pro
 65 70 75 80
 Val Thr Thr Pro Pro Thr Ile Ser Phe Val Ser Val Asn Ala Glu Glu
 85 90 95
 Leu Pro Asp Ile Ser Glu Glu Tyr Asn Val Thr Ala Val Pro Tyr Val
 100 105 110
 Val Leu Ile Arg Asn Gly Gln Ile Leu Glu Ser Ile Ser Gly Ser Asp
 115 120 125
 Ala Val Lys Val Arg Asp Ala Val Glu Arg His Ala Gly Ala Gly Ser
 130 135 140
 Gly Ala Gly Ala Asp Gly Ala Asn Lys Thr Ala Ile Pro Pro Pro Leu
 145 150 155 160
 Thr Ala Thr Pro Arg Glu Asn Ala Pro Ala Ala Ala Ala Gln Pro Ala
 165 170 175
 Ala Pro Ser Thr Gln Ala Leu Thr Pro Glu Gln Ser Lys Glu Ala Leu
 180 185 190
 Phe Ala Arg Leu Ala Glu Leu Val Lys Gly Arg Ala Gly Tyr Ala Leu
 195 200 205
 His Glu Gly Tyr Thr
 210

<210> 31706

<211> 108

<212> PRT

<213> A.fumigatus

<400> 31706

Lys Ala Ala Pro Val Met Leu Phe Met Lys Gly Thr Pro Ser Ala Pro
 1 5 10 15
 Gln Cys Gly Phe Ser Arg Gln Leu Val Ala Ile Leu Arg Glu Lys Ser
 20 25 30

Val Lys Tyr Gly Phe Phe Asn Ile Leu Ala Asp Glu Asp Val Arg Gln
 35 40 45
 Gly Leu Lys Glu Phe Ala Asp Trp Pro Thr Phe Pro Gln Leu Trp Val
 50 55 60
 Glu Gly Glu Leu Val Gly Gly Leu Asp Ile Val Arg Ser Ser Ile Val
 65 70 75 80
 Ala Pro Ala Ala Arg Lys Ser Leu Leu Thr Asp Met Phe Leu Pro His
 85 90 95
 Arg Ser Arg Lys Arg Ser Thr Thr Thr Leu Ile Ser
 100 105

<210> 31707

<211> 279

<212> PRT

<213> A.fumigatus

<400> 31707

Arg Cys Val Ala Lys Ala Val Ser Thr Pro Lys Asn Pro Pro Lys Phe
 1 5 10 15
 Phe Pro Ser Ser Thr Leu Ser Asp His Phe Thr Ser Gly Arg Cys Ser
 20 25 30
 Ile Gly Leu Arg Phe Pro Ser Ser Ala Val Phe Cys Arg Leu Ser Thr
 35 40 45
 Leu Asp Phe Leu Leu Ser Cys His Cys Ser Cys Ser Phe Tyr Asn Leu
 50 55 60
 Ile Ile Lys Met Ala Gly Leu Gln Ser Arg Ser Ala Met Thr Leu Pro
 65 70 75 80
 Ser Ser Leu Ser Ala Ala Phe Arg Asn Leu Ser Leu Ser Val Pro Thr
 85 90 95
 Arg Ser Phe Ser Thr Thr Leu Ala Ala Gln Lys Thr Lys Gln Leu Pro
 100 105 110
 Asp Tyr Ile Pro Pro Tyr Pro Tyr Gly Pro Asn Tyr Ile Phe Lys Gln
 115 120 125
 Ser Asn Ser Gly Leu Tyr Gly Gly Ala Met Ile Gln Phe Gly Asn Lys
 130 135 140
 Ile Ser Lys Gly Arg Asn Glu Gly Lys Thr Arg Arg Phe Trp Lys Pro
 145 150 155 160
 Asn Val Arg Arg Lys Lys Leu Trp Ser Glu Ala Leu Gly Glu Tyr Leu
 165 170 175
 Phe Ile Lys Val Thr Arg Lys Ala Leu Arg Thr Ile Trp Lys Ser Gly
 180 185 190
 Gly Leu Asp Asn Tyr Leu Leu Asp Asp Arg Pro Gly Arg Ile Lys Glu
 195 200 205
 Leu Gly Ile Phe Gly Trp Glu Leu Arg Trp Lys Val Met Gln Thr Pro
 210 215 220
 Lys Ile Gln Glu Gln Phe Arg Gln Glu Arg Lys Arg Leu Gly Leu Pro
 225 230 235 240
 Glu Pro Pro Ser Phe Glu Glu Trp Val Lys Gln Lys Glu Ala Glu Val
 245 250 255
 Lys Ala Lys Val Glu Glu Glu Ile Asn Ile Lys Glu Ala Thr Lys Pro
 260 265 270
 Thr Tyr Asn Glu Lys Gln Tyr
 275

<210> 31708

<211> 88

<212> PRT

<213> A.fumigatus

<400> 31708

Gln Ala Cys Gly Val Phe Val Asp Leu Ile Lys Ala Lys Lys Met Ala
 1 5 10 15
 Gly Arg Ala Ile Met Leu Ala Gly Gly Pro Gly Thr Gly Lys Thr Ala
 20 25 30
 Leu Ala Leu Ala Val Ser Gln Glu Leu Gly Thr Lys Val Pro Phe Cys
 35 40 45
 Pro Ile Val Gly Ser Glu Ile Tyr Ser Ala Glu Val Lys Lys Thr Glu
 50 55 60
 Ala Leu Met Glu Asn Phe Arg Arg Ala Ile Gly Met Leu Phe Gln Thr
 65 70 75 80
 Arg Leu Ser Gly Trp Gly Cys Asp
 85

<210> 31709

<211> 78

<212> PRT

<213> A.fumigatus

<400> 31709

Glu Asp Pro Phe Ser Phe Gln Ala Arg Pro Gln Tyr Phe Ala Met Val
 1 5 10 15
 Gln Ile Ser Glu Val Lys Gly Ser Ser Arg Glu Asn Arg Thr Ala Ala
 20 25 30
 His Thr His Ile Lys Gly Leu Gly Leu Arg Pro Asp Gly Thr Ala Glu
 35 40 45
 Pro Ser Ala Asp Gly Phe Val Gly Gln Ala Ala Ala Arg Glu Val Gly
 50 55 60
 Ser Ile Gln Phe Phe Ser Ser Phe Gly Lys Met Ser Leu Gly
 65 70 75

<210> 31710

<211> 162

<212> PRT

<213> A.fumigatus

<400> 31710

Trp Lys Ile Phe Glu Gly Arg Leu Val Cys Cys Phe Arg Arg Val Phe
 1 5 10 15
 Arg Ala Gly Val Ala Ile Asn Lys Ile Leu Gly Leu Arg Val Arg Glu
 20 25 30
 Thr Lys Glu Val Tyr Glu Gly Glu Val Thr Glu Leu Thr Pro Glu Glu
 35 40 45
 Ala Glu Asn Pro Leu Gly Gly Tyr Gly Arg Thr Ile Ser His Leu Ile
 50 55 60
 Ile Gly Leu Lys Ser Ala Lys Gly Thr Lys Lys Leu Arg Leu Asp Pro
 65 70 75 80
 Ser Ile Tyr Glu Ala Ile Gln Lys Glu Arg Val Thr Val Gly Asp Val
 85 90 95
 Ile Tyr Ile Glu Ala Asn Thr Gly Ala Cys Lys Arg Val Gly Arg Ser
 100 105 110
 Asp Ala Tyr Ala Thr Glu Phe Asp Leu Glu Ala Glu Glu Tyr Val Pro
 115 120 125

12288

Val Pro Lys Gly Glu Val His Lys Lys Lys Glu Ile Val Gln Asp Val
 130 135 140
 Thr Leu His Asp Leu Asp Met Ala Asn Ala Arg Pro Gln Val Asp Arg
 145 150 155 160
 Thr Ser

<210> 31711
 <211> 226
 <212> PRT
 <213> A.fumigatus

<400> 31711
 Arg Arg Glu Thr Cys Thr Asn Leu Leu Tyr Gln Pro Lys Leu Thr Glu
 1 5 10 15
 Glu Glu Leu Thr Arg Arg Ile Ala Ala Lys Glu Asn Ala Ala Lys
 20 25 30
 Lys Ala Ala Tyr Ala Arg Ala Glu Ala Asp Gln Ala Ser Phe Leu
 35 40 45
 Glu Arg Glu Lys Ile Ala Glu Glu Lys Arg Leu Gln Glu Arg Gln Asn
 50 55 60
 Arg Arg Ala Met Asp Ser Glu Arg Glu Arg Asn Arg Leu Arg Lys Leu
 65 70 75 80
 Glu Ala Leu Gly Gly Arg Glu Trp Asp Ala Thr Lys Arg Glu Glu Asp
 85 90 95
 Tyr Asn Pro Arg Gly Gly Arg Gly Gln Phe Arg Arg Gly Met His Gly
 100 105 110
 Gly Val Ser Gly Tyr Val Arg Arg Asp Phe Asp Asp Ala Arg Thr Glu
 115 120 125
 Glu Asp Gln Glu Gly Arg His His Leu Asn His Arg Gly Arg Gly Arg
 130 135 140
 Gly Gly Arg Gly Gly Arg Gly Arg Gly Ala Ser Arg Ala Ala Pro Phe
 145 150 155 160
 Asp Gly Ala Ser Asp Glu Ala Ala Ala Ala Ser Pro Ala Pro Pro
 165 170 175
 Val Leu Asn Asn Glu Gln Glu Phe Pro Ala Leu Pro Gly Gly His Lys
 180 185 190
 Pro Thr Asp Lys Thr Val Ser Asp Leu Ala Asp Lys Leu Glu Thr Ser
 195 200 205
 Leu Ser Pro Val Ser Gly Ala Thr Trp Ala Glu Gln Val Glu Ser Gln
 210 215 220
 Arg Asp
 225

<210> 31712
 <211> 64
 <212> PRT
 <213> A.fumigatus

<400> 31712
 Ala Thr Asn Pro Lys Ser Ser Met Gly Glu Phe Leu Gly Leu Ser Ser
 1 5 10 15
 Gln Lys Gly Ala Ala Ser Ser Asn Phe Glu Gln Arg Ala Gln Gly Ala
 20 25 30
 Ser Glu Met Ser Ala Lys Asp Thr Ser Cys Asp Thr Glu Asp His Ser
 35 40 45

12289

Phe Met Glu His Gly Pro Gly Phe Gln Leu Ala Leu Pro Thr Ser Gln
50 55 60

<210> 31713
<211> 62
<212> PRT
<213> A.fumigatus

<400> 31713
Pro Pro Thr Thr Met Gly Asp Arg Thr Ala Asp Asn Ala Val Asn His
1 5 10 15
Glu Arg Thr Ser Thr Gln Gly Gly Ala Ser Ser Lys Pro Thr Pro Ala
20 25 30
Asn Asn Ala Gly Gly Gly Ser Gly Trp Gly Asp Lys Gly Phe Phe Lys
35 40 45
Gly Gly Thr Gly Thr Glu Gly Pro Gly His Gln Ala Val Ser
50 55 60

<210> 31714
<211> 232
<212> PRT
<213> A.fumigatus

<400> 31714
Leu Ala Asn Arg Arg Cys Thr Val Cys Phe Asn Ser Glu Ser Ile Lys
1 5 10 15
Asn Val Glu Ile Leu Pro Cys Gln His Ile Tyr Cys Asp Tyr Cys Phe
20 25 30
Ser Arg Leu Ala Leu Thr Ala Met Ala Asn Glu Gln Leu Phe Pro Pro
35 40 45
Arg Cys Cys Ser Gln Met Ile Pro Thr Asp Gln Val Leu Ser Lys Leu
50 55 60
Thr Glu Lys Glu Lys Ala Leu Phe Lys Leu Lys Ala Arg Glu Tyr Ala
65 70 75 80
Thr Ser Ala Arg Glu Arg Arg Tyr Cys Pro Ala Met Lys Cys Gly Lys
85 90 95
Trp Ile Pro Leu Glu Lys Leu Glu Gly Gln Ser Thr Ala Gln Leu Cys
100 105 110
Pro Tyr Cys Gly Thr Ala Ile Cys Pro Gly Cys Lys Asp Lys Ala His
115 120 125
Ala Pro Gly Lys Cys Ser Phe Asp Pro Gly Leu Thr Glu Phe Leu Glu
130 135 140
Leu Ala Arg Thr Gln Gly Trp Gln Arg Cys Phe His Cys Gly Ala Met
145 150 155 160
Val Glu Leu Asn Glu Gly Cys Pro Arg Ile Thr Cys Arg Cys Gly Ala
165 170 175
Asp Leu Trp Phe Val Leu Thr Leu Thr Ser Ser Leu Ala Val Arg Asp
180 185 190
Thr Asp Ala Lys Leu Gln Leu Trp Trp Thr Met Ala Tyr Leu Pro
195 200 205
Ser Gln Arg Leu Arg Glu Arg Asn Arg Arg Met Pro Asn Arg Arg Ala
210 215 220
Ser Arg Arg Arg Ser Gly Asn Thr
225 230

<210> 31715

<211> 132
 <212> PRT
 <213> A.fumigatus

<400> 31715

Arg	Ile	Ser	Phe	Phe	Arg	Thr	Leu	Glu	Arg	Gln	Leu	Pro	Ser	Ser	Leu
1				5					10					15	
Ala	Met	Phe	Ser	Ser	Ser	Val	Arg	Gly	Val	Ala	Arg	Val	Cys	Ser	Ser
			20					25					30		
Ile	Thr	Ser	Arg	Thr	Phe	Asn	Thr	Ser	Thr	Ala	Ala	Tyr	Ala	Ala	Glu
		35					40					45			
Val	Lys	Ser	Leu	Gly	Val	Ile	Gly	Ala	Gly	Gln	Met	Val	Ser	Met	Leu
	50					55					60				
Pro	Tyr	Cys	Asn	Phe	Leu	Ser	Ser	Leu	Met	Leu	Ser	Asp	Leu	His	Gly
65					70					75					80
Leu	Gly	Ile	Ala	Leu	Val	Asp	Ala	Ser	Lys	Ala	His	Val	Pro	Val	Thr
				85					90					95	
Leu	Ile	Asp	Asn	Thr	Gln	Ala	Ala	Leu	Asp	Lys	Gly	Leu	Ser	Phe	Ala
			100					105					110		
Gly	Met	Leu	Asp	Thr	Ala	Gln	Leu	Ser	Ser	Thr	Leu	Leu	Trp	Leu	Leu
		115					120					125			
Gly	Tyr	Ser	Asn												
			130												

<210> 31716
 <211> 249
 <212> PRT
 <213> A.fumigatus

<400> 31716

Pro	Thr	Phe	Pro	Thr	Ser	Asp	Lys	Leu	Leu	Gln	Lys	Asp	Val	Ser	Lys
1				5					10					15	
Glu	Arg	Leu	Thr	Gln	Glu	Ala	Ala	Asp	Ala	Val	Arg	Ala	Arg	Ile	Thr
			20					25					30		
Pro	Ser	Leu	Asn	Met	Asp	Asp	Leu	Ser	Ser	Val	Asp	Phe	Val	Ile	Glu
		35					40					45			
Ala	Val	Pro	Glu	Ile	Pro	Asp	Leu	Lys	Thr	Ser	Ile	Phe	Ser	Lys	Leu
	50					55					60				
Ala	Gln	Ile	Ala	Pro	Lys	His	Ala	Ile	Leu	Ala	Thr	Asn	Thr	Ser	Ser
65					70					75					80
Ile	Pro	Ile	Thr	Lys	Ile	Ala	Ala	Ala	Thr	Ser	Thr	Asp	Pro	Thr	Asp
			85						90					95	
Leu	Gln	Ala	Pro	Ser	Arg	Val	Ile	Ser	Thr	His	Phe	Met	Asn	Pro	Val
			100					105					110		
Pro	Val	Gln	Lys	Gly	Val	Glu	Ile	Ile	Ala	Gly	Leu	Gln	Thr	Ser	Lys
		115					120					125			
Glu	Thr	Met	Asp	Thr	Ala	Ile	Ala	Phe	Val	Gln	Arg	Met	Gly	Lys	Ile
	130					135					140				
Ala	Ala	Val	Ser	Ala	Asp	Ser	Pro	Gly	Phe	Leu	Ala	Asn	Arg	Ile	Leu
145					150					155					160
Met	Pro	Tyr	Ile	Asn	Glu	Ala	Ile	Ile	Cys	Leu	Glu	Thr	Gly	Val	Gly
			165						170					175	
Ala	Arg	Glu	Asp	Ile	Asp	Ser	Ile	Met	Lys	Asn	Gly	Thr	Asn	Val	Pro
			180					185					190		
Met	Gly	Pro	Leu	Thr	Leu	Ala	Asp	Phe	Ile	Gly	Leu	Asp	Thr	Cys	Leu
			195				200					205			

12291

Ala Ile Met Asn Val Leu His Gln Glu Thr Gly Asp Ser Lys Tyr Arg
 210 215 220
 Pro Ser Gly Leu Leu Lys Arg Met Val Asp Ala Gly Trp Leu Gly Lys
 225 230 235 240
 Lys Ser Gly Lys Gly Phe Tyr Asp Tyr
 245

<210> 31717
 <211> 184
 <212> PRT
 <213> A.fumigatus

<400> 31717
 Val Ala Asn Ala Cys Ala Val Leu Gln Ala Val Val Lys Thr Asn Lys
 1 5 10 15
 Thr Asn Val Pro Ser Pro Ser Thr Glu Glu Ala Asp Ile Ile Ser Glu
 20 25 30
 Ser Leu Pro Tyr Pro Val Lys Phe Ala Leu Glu Val His Phe Thr Lys
 35 40 45
 Arg Ala Tyr Glu Ala Glu Lys Asp Ile Leu Asn Gly Leu Lys Ala Ala
 50 55 60
 Gly Phe Glu Leu Asp Phe Gly Val Asp Gly Ala Gly Ile Ser Arg Ala
 65 70 75 80
 Tyr Met Thr Arg Gly Gly Gly Tyr Tyr Ile Asp Val Gly Cys Ser Gln
 85 90 95
 Leu Ile Ala Asp Gly Lys Ile Lys Ile Lys Arg Ser Pro Glu Gly Ile
 100 105 110
 Ala Gly Phe Asn Asp Arg Gly Leu Leu Leu Arg Asp Gly Ser Ala Leu
 115 120 125
 Asp Ala Asp Ile Val Val Leu Ala Thr Gly Tyr Asp Asn Met Arg Thr
 130 135 140
 Thr Val Arg Lys Ile Leu Gly Asn Arg Val Ala Asp Arg Cys Lys Asp
 145 150 155 160
 Val Trp Asp Leu Asp Glu Glu Gly Glu Val Asn Ala Val Gly Gln Pro
 165 170 175
 Phe Leu Asp Tyr Cys Gln Gln Cys
 180

<210> 31718
 <211> 69
 <212> PRT
 <213> A.fumigatus

<400> 31718
 Gly Gln Cys Gly Arg Ser Thr Leu Ser Gly Leu Leu Pro Thr Met Leu
 1 5 10 15
 Ile Lys Asp Gly Gln Met Trp Arg Pro Ser Gly His Pro Gly Phe Trp
 20 25 30
 Phe Met Gly Gly Asn Leu Ala Leu Cys Arg Ile Tyr Ser Lys Phe Leu
 35 40 45
 Ala Leu Gln Ile Lys Ala Ile Glu Val Gly Leu Ala Ser Gln Asp Thr
 50 55 60
 Val His Ala Lys Leu
 65

<210> 31719

<211> 70
 <212> PRT
 <213> A.fumigatus

<400> 31719
 Arg Lys Ser Thr Gly Gly Lys Ser Ser His Thr Arg Ser Ala Pro Ser
 1 5 10 15
 Arg Trp Pro Ser Met Pro Ala Pro Thr Pro Pro Phe Leu Thr Leu Tyr
 20 25 30
 Pro Lys Pro Tyr Gly Pro Arg Arg Pro Asn Arg Ser Lys Gln Thr Ser
 35 40 45
 Ser Leu Ile Pro Ser Ile Val Phe Asp Pro Ile Thr Ala Ser Gly Asn
 50 55 60
 Pro Arg Gly Thr Pro Gly
 65 70

<210> 31720
 <211> 738
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (36), (38)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31720
 Ala Arg Arg Ser Arg Ala Gln Val Gly Tyr Tyr Arg Val Gln Asn Arg
 1 5 10 15
 Ile Met Arg Tyr Leu Cys Leu Ala Leu Phe Ser Ala Leu Val Leu Phe
 20 25 30
 Ile Leu Ala Xaa Phe Xaa Phe Thr Ile Thr Ser Asp Glu Lys Gln Val
 35 40 45
 Ala Leu Gly Leu Pro Lys Val Ala Pro Lys Pro Leu Gln Trp Glu Ser
 50 55 60
 Phe Pro Phe Leu Lys Arg Tyr His Gly Gly Ile Arg Thr Leu Ile Pro
 65 70 75 80
 Arg Asn Glu Ser Val Pro Glu Tyr Pro Ser Asp Gly Met Glu Glu Met
 85 90 95
 Ala Met Gly Ser Asp Asn Asn Lys Gly Gln Ala Asn Ile Glu Thr Arg
 100 105 110
 Gly Gln Glu Ala Leu Met Ser Ser Leu Val Phe Asn Pro Tyr Pro Asp
 115 120 125
 Tyr Asp Ser Asp Glu Tyr Lys Lys Lys Tyr Gly Glu Lys Arg Glu Cys
 130 135 140
 Phe Leu Asp Glu Gln Glu Thr Ile Arg Ile Pro Pro Val Gln His Tyr
 145 150 155 160
 Pro Gly Val Pro Arg Gly Phe Pro Asp Ala Val Met Gly Ser Asn Thr
 165 170 175
 Met Leu Gly Ile Lys Asp Asp Val Cys Phe Glu Arg Phe Gly Arg Leu
 180 185 190
 Gly Pro Tyr Gly Phe Gly Tyr Ser Val Arg Lys Gly Gly Val Gly Ala
 195 200 205
 Gly Met Glu Gly His Arg Glu Gly Ala Glu Arg Val Trp Asp Asp Leu
 210 215 220
 Pro Pro Val Asp Phe Arg His Val Asp Trp Ala Ala Ala Gln Asn Arg

225		230		235		240
Cys Val Ala Leu Asn Ser His Arg Phe Lys Asp Leu Pro Gln Pro Arg						
	245			250		255
Leu Asn Arg Phe Leu Ser Leu Pro Val Gly Val Pro Lys Ser Ser Gln						
	260			265		270
Ser Gln Glu Lys Asp Glu Ala Ser Gln Ser Lys Ala Asp Arg Leu Pro						
	275		280		285	
Arg Thr Ala Val Val Ile Arg Thr Trp His Asp Phe His Phe Thr Pro						
	290		295		300	
Asp Asp Ile Leu Tyr Leu Arg Ser Leu Ile Ser Glu Leu Ser Leu Leu						
305		310		315		320
Ser Gly Gly Glu Tyr Thr Ile His Phe Leu Val His Val Lys Asp Gly						
	325		330			335
Asn Leu Gln Ile Trp Ser Asp Asp Glu Thr Tyr Glu Arg Val Leu Asn						
	340		345			350
Asp Ala Leu Pro Ala Glu Phe Arg Gly Met Gly Thr Leu Trp Ser Glu						
	355		360			365
Gln Gln Met Ala Leu Ile Tyr Pro Gly Leu Glu Glu Thr Trp Thr Arg						
	370		375			380
Gly Leu Pro Val His Gly Val Tyr Arg Ser Thr Phe Met Pro Met Gln						
385		390		395		400
Tyr Phe Ala Tyr Gln His Pro Glu Tyr Asp Phe Tyr Trp Asn Trp Glu						
	405		410			415
Met Asp Val Arg Tyr Thr Gly His Trp Tyr His Leu Phe Asp Lys Val						
	420		425			430
Gly Ser Trp Ala Arg Glu Gln Pro Arg Lys Leu Leu Trp Glu Arg Asn						
	435		440			445
Ala Arg Ile Asn Val Pro Ser Val His Gly Ser Trp Glu Asp Phe Arg						
	450		455			460
His Thr Val Arg Val Gln Thr Glu Ser Gly Thr Asn Ser Pro Asn Asn						
465		470		475		480
Leu Trp Ser Ala Ala Thr Lys Tyr Gly Ser Asp Pro Ser Ser Gly Asp						
	485		490			495
Arg Gln Ala Leu His Arg Gln Gly Asp Lys Pro Ile Trp Gly Pro Glu						
	500		505			510
Arg Pro Asp Glu Arg Asp Ile Leu Glu Val Asp Gly Glu Gly Ile Pro						
	515		520			525
Gln Thr Thr Met Glu Lys Asp Gln Asn Glu Trp Gly Val Gly Glu Glu						
	530		535			540
Ala Asp Leu Ile Val Phe Asn Pro Leu Tyr Asp Pro Glu Gly Thr Thr						
545		550		555		560
Trp Leu Leu Arg Asp Asp Val Thr Gly Tyr Asn Lys Glu Asn Gly Met						
	565		570			575
Pro Pro Arg Arg Thr Ala Ile Ile Thr Ala Ser Arg Leu Ser Arg Lys						
	580		585			590
Leu Leu Leu Thr Met His Lys Glu Thr Ser Leu Lys Arg His Thr Met						
	595		600			605
Phe Ser Glu Met Trp Pro Ala Thr Thr Ala Leu His His Gly Phe Lys						
	610		615			620
Ala Val Phe Val Pro His Ser Val Tyr Ile Asp Arg Arg Trp Pro Thr						
625		630		635		640
Lys Tyr Leu Glu Ser Val Phe Asn Ala Gly Arg Asn Gly Ala Ser Gly						
	645		650			655
Gly Ala Arg Thr Ser Val Phe Gly Asp Arg Glu His Asn Phe Arg Gly						
	660		665			670
Thr Thr Trp Phe Tyr Ser Ala Gly Phe Ser Pro Asn Leu Trp Arg Arg						

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<210> 31721
<211> 182
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (18),(38)
<223> Identity of amino acid sequences at the above locations are unknown.
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<210> 31722
<211> 223
<212> PRT
<213> A.fumigatus
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<400> 31722
His Ala Ser Val Tyr Gly Ala Ser Pro Gln Phe Cys Ala Gly Pro Val
1          5          10          15
His Ser Val His Ala Val Glu Gly Pro Leu Arg Val His Val Ser Thr
          20          25          30

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Ser Leu Gly Arg Thr Gly Phe Asn Arg Leu Thr Val Ser Ser Asn Phe
 35 40 45
 Tyr Arg Ala Ser Ser Ser Pro Ile Val Val Val Leu Ser Gly Ser Met
 50 55 60
 Glu Pro Ala Phe Gln Arg Gly Asp Leu Leu Phe Leu Trp Asn Arg Ser
 65 70 75 80
 Pro Arg Ala Glu Leu Gly Glu Ile Val Val Tyr Asn Val Arg Gly Lys
 85 90 95
 Asp Ile Pro Ile Val His Arg Val Val Arg Thr Phe Pro Gln Ile Glu
 100 105 110
 Gly Lys Ala Lys Lys Val Lys Glu Val Asn Glu Cys Val Leu His Ser
 115 120 125
 Ala Ser Ile Cys Cys Glu Gln Leu Leu Thr Arg Arg Ile Cys His Arg
 130 135 140
 Ala Ser Ser Val Pro Pro Asn Met Leu Leu Thr Lys Gly Asp Asn Asn
 145 150 155 160
 Ile Ala Asp Asp Thr Glu Leu Tyr Ala Lys Asn Gln Asp Phe Leu His
 165 170 175
 Arg Glu Glu Asp Thr Ile Val Gly Ser Val Arg Gly Tyr Met Pro Met Val
 180 185 190
 Gly Tyr Val Thr Ile Met Leu Ser Glu His Pro Trp Leu Lys Thr Val
 195 200 205
 Leu Leu Gly Ile Met Gly Leu Met Val Ile Leu Gln Arg Glu Gln
 210 215 220

<210> 31723

<211> 71

<212> PRT

<213> A.fumigatus

<400> 31723

Arg Ala Ala Asn Met Gly Ser Gln Lys Arg Ile Ala Lys Val Arg His
 1 5 10 15
 Trp Asp Gln Val Ala Ser Asn Phe Leu Val Phe Tyr Leu Leu Ala Asn
 20 25 30
 Gly Ile Asn Val Leu Gln Glu Leu Ala Glu Leu Thr Glu Ser Pro Pro
 35 40 45
 Ala Gly Ile Thr Val Glu Leu Val Asp Glu Ser Asn Leu Tyr Glu Trp
 50 55 60
 Lys Val Tyr Leu Gly Gly Pro
 65 70

<210> 31724

<211> 293

<212> PRT

<213> A.fumigatus

<400> 31724

Gln Arg Val Ser Phe Gln Pro Arg Ser Val Asn Thr Gly Ala Val Phe
 1 5 10 15
 Ile Glu Asp Ser Gly Leu Ile Trp Asp Ala Thr Leu Asn Gln Thr Asn
 20 25 30
 Ser Ala His Asn Asn Asn Lys Phe Tyr Arg Ile Gln Leu Leu Val Asp
 35 40 45
 Thr Ser Gly Thr Thr Tyr Lys Thr Trp Thr Arg Trp Gly Arg Val Gly
 50 55 60

Glu Phe Gly Ser Ser Ala Leu Leu Gly Asp Gly Thr Leu Gln Arg Ala
 65 70 75 80
 Lys Phe Glu Phe Glu Lys Lys Phe Lys Asp Lys Thr Gly Leu Lys Trp
 85 90 95
 Glu Asp Arg Leu Ser Thr Pro Lys Ser Asn Lys Tyr Thr Phe Ile Glu
 100 105 110
 Arg Asn Tyr Glu Glu Ser Asp Asp Glu Asp Asp Ser Glu Asp Lys Met
 115 120 125
 Asp Val Asp Lys Arg Glu Lys Ile Glu Ser Thr Leu Pro Gln Ala Val
 130 135 140
 Gln Glu Leu Leu Thr Phe Ile Phe Asn Gln Gln His Phe Leu Ser Thr
 145 150 155 160
 Met Ala Ser Met Ser Tyr Asp Ala Gln Lys Leu Pro Leu Gly Lys Leu
 165 170 175
 Ser Lys Arg Thr Leu Thr Thr Gly Phe Gln Ile Leu Lys Asp Leu Ser
 180 185 190
 Glu Leu Val Ala Asp Pro Ser Leu Ala Ser Ser Arg Tyr Asn Thr Ser
 195 200 205
 Phe Gln Gln Ala Ala Leu Asp Leu Ser Asn Arg Tyr Phe Thr Thr Ile
 210 215 220
 Pro His Val Phe Gly Arg Asn Thr Pro Pro Ile Leu Thr Lys Asp His
 225 230 235 240
 Gln Ile Lys Thr Glu Val Asp Leu Leu Glu Ala Leu Thr Asp Met Gly
 245 250 255
 Val Ala Asn Gly Ile Met Lys Asn Ser Arg Asp Ala Glu Met Met Asn
 260 265 270
 Gln Leu Asp Arg Gln Tyr Gln Gly Leu Gly Met Gln Glu Met Thr Pro
 275 280 285
 Arg Gln Ser Ala Ile
 290

<210> 31725

<211> 221

<212> PRT

<213> A.fumigatus

<400> 31725

Ser Ile Pro Glu Gln Phe Ser Arg Leu Asp Ala Pro Ser Ser Ile Gln
 1 5 10 15
 Arg Glu Tyr Phe Pro Arg Asn Leu Lys Phe Gln Asp Thr Gln His Lys
 20 25 30
 Gln Val Ile Asn Ile Phe Arg Ile Glu Arg Lys Gly Glu Glu Asp Arg
 35 40 45
 Phe Lys Ser Ser Cys Phe Ala Asn Leu Thr Asn Ser Asn Arg Arg Leu
 50 55 60
 Leu Trp His Gly Ser Arg Ser Thr Asn Phe Gly Gly Ile Leu Ser Gln
 65 70 75 80
 Gly Leu Arg Ile Ala Pro Pro Glu Ala Pro Val Ser Gly Tyr Met Phe
 85 90 95
 Gly Lys Gly Val Tyr Phe Ala Asp Met Ser Ser Lys Ser Ala Asn Tyr
 100 105 110
 Cys Val Pro Tyr Asn Ser Ala Asn Met Gly Leu Leu Leu Leu Cys Asp
 115 120 125
 Val Glu Leu Gly Asn Pro Met Leu Glu Gln Phe Arg Ala Asn Phe Asn
 130 135 140
 Ala Gly Thr Asp Ala Lys Ala Gln Gly Lys Ile Ala Thr Leu Gly Lys

12297

145		150		155		160
Gly	Arg	Thr	Ile	Pro	Ala	Gly
		165		170		175
Ala	Leu	Ser	Gly	Val	Gln	Met
		180		185		190
Asp	Asn	Gly	Ser	Leu	Leu	Tyr
		195		200		205
Gln	Ile	Arg	Gln	Arg	Tyr	Leu
		210		215		220

<210> 31726

<211> 104

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (62), (65), (77)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31726

Lys	Arg	Leu	Lys	Ala	Arg	Val	Pro	Ser	Gly	Pro	Thr	Cys	Thr	Arg	Ala
1			5						10					15	
Ser	Ala	Ser	Pro	Pro	Ile	Pro	Tyr	Leu	Gln	Met	Gly	Arg	Ile	Gly	Leu
			20					25					30		
Asn	Arg	Phe	Lys	Ala	Ala	Met	Ala	Arg	Phe	Leu	Asn	Glu	Arg	Leu	His
		35				40					45				
Pro	Ala	Thr	Pro	Leu	Glu	Pro	His	His	Leu	Ile	Leu	Thr	Xaa	Gly	Val
	50					55					60				
Xaa	Ala	Ala	Val	Glu	His	Leu	Ser	Trp	Ala	Leu	Ala	Xaa	Lys	Gly	Glu
65					70					75					80
Gly	Ile	Leu	Leu	Gly	Asp	Arg	Thr	Thr	Ala	Pro	Leu	Ser	Arg	Ile	Ser
			85					90						95	
Pro	Cys	Gly	Ser	Ala	Arg	Arg	Leu								
			100												

<210> 31727

<211> 298

<212> PRT

<213> A.fumigatus

<400> 31727

Arg	Arg	Gly	His	Pro	Pro	Gly	Arg	Pro	Tyr	Tyr	Gly	Thr	Phe	Val	Ala
1			5						10					15	
Asp	Ile	Ser	Met	Arg	Phe	Gly	Thr	Glu	Val	Val	Thr	Val	Pro	Phe	Gly
		20						25					30		
Gly	Ala	Asp	Pro	Leu	Gly	Glu	Ala	Cys	Val	Glu	Ala	Tyr	Arg	Gln	Ala
		35				40					45				
Leu	Thr	Ser	Phe	Glu	Gln	Arg	Thr	Gly	Lys	Lys	Cys	Arg	Ala	Leu	Leu
	50					55					60				
Leu	Cys	His	Pro	His	Asn	Pro	Leu	Gly	Arg	Cys	Tyr	Ser	Arg	Asn	Val
65					70					75					80
Leu	Val	Ala	Leu	Met	Arg	Leu	Cys	Gln	Glu	Gln	Gly	Met	His	Phe	Ile
			85					90						95	
Ser	Asp	Glu	Ile	Tyr	Ala	Leu	Ser	Val	Trp	Gly	Gly	Glu	Glu	Phe	Val
			100					105						110	

12298

Ser Ala Leu Ser Ile Asp Thr Ser Gly Ile Ile Asp Ala Asp Arg Val
 115 120 125
 His Val Leu Trp Gly Met Ser Lys Asp Phe Gly Ala Asn Gly Leu Arg
 130 135 140
 Leu Gly Ala Leu Ile Ser Gln Gly Asn Lys Asp Val Arg Ala Ala Val
 145 150 155 160
 Asp Ser Val Ala Leu Tyr Ser Tyr Val Ser Gly Pro Ala Asp His Leu
 165 170 175
 Ala Ala Asn Val Leu Glu Asp Asp Ala Tyr Thr Asp Glu Tyr Ile Arg
 180 185 190
 Leu Asn Cys Glu Lys Leu Lys Gln Ala Tyr Glu Tyr Thr Val Gly Leu
 195 200 205
 Leu Thr Gln Asn Glu Ile Pro Tyr Met Ala Gly Ala Asn Ala Gly Phe
 210 215 220
 Phe Val Trp Val Asp Leu Gly Thr Pro Tyr Leu Lys His His Pro Glu
 225 230 235 240
 Ala Lys His Glu Asp Val Gly Glu Ile Val Met Gln Arg Leu Leu Lys
 245 250 255
 Asn Lys Val Phe Leu Ala Ser Gly Ala Leu Phe Gly Ser Glu Thr Pro
 260 265 270
 Gly Trp Phe Arg Ile Val Phe Ala His Pro Gln Ala Tyr Leu Asp Glu
 275 280 285
 Ala Leu Arg Arg Ile Val Ala Ala Leu Gln
 290 295

<210> 31728

<211> 142

<212> PRT

<213> A.fumigatus

<400> 31728

Pro Gly Arg Pro Gly Thr Arg Gly Pro Ser Cys Gln Pro Thr Lys Pro
 1 5 10 15
 Lys Pro Arg Ala Thr Met Thr Arg Arg Ser Gly Leu Ser Gln Pro Cys
 20 25 30
 Pro Leu Arg Ser Gly Thr Ser Pro Thr Gln Thr Arg Thr Thr Gly Pro
 35 40 45
 Gly Gly Trp Arg Trp Arg Arg Arg Cys Ser Thr Arg Arg Arg Arg Gly
 50 55 60
 Gly Thr Lys Thr Pro Ala Ala Gly Asp Cys Gly Gly Arg Ser Ser Ala
 65 70 75 80
 Ser Thr Met Asp Gly Ile Thr Arg Ile Pro Phe Pro Thr Gly Val Phe
 85 90 95
 Ser Thr Trp Pro Pro Gly Trp Arg Gly Thr Arg Gly Thr Ala Arg Thr
 100 105 110
 Leu Ser Gly Gln Ser Gly Ser Gly Thr Gly Arg Trp Thr Trp Ala Ser
 115 120 125
 Ser Arg Thr Thr Gly Cys Ser Thr Thr Gly Arg Thr Ser Cys
 130 135 140

<210> 31729

<211> 197

<212> PRT

<213> A.fumigatus

<400> 31729

Cys Val Ala Asn Gln Tyr Lys Thr Glu Gly Asp Ser Arg Trp Glu Ala
 1 5 10 15
 Arg Thr Lys His Ile Leu Gln Ala Thr Asp Ala Phe Phe Ala Glu Asp
 20 25 30
 Pro Ala Met Val Met Tyr Glu Arg Ala Cys Glu Leu Val Asp Thr Cys
 35 40 45
 Gln Val Asp Gln Arg Ala Phe Lys Gly Ser Ser Arg Asp Gly Trp Arg
 50 55 60
 Arg Pro Arg Arg Leu Pro Pro Ser Arg Met Thr Gly Ser Trp Pro Arg
 65 70 75 80
 Leu Arg Ala Ser Ala Ala Ala Ala Arg Thr Cys Thr Gly Gly Pro
 85 90 95
 Asp Gly Ala Ala Cys Gly Leu Lys Trp Thr Thr Gly Val Trp Asp Gly
 100 105 110
 Ser Glu Asp Val Gly Leu Gln Met Ser Ala Leu Glu Val Ile Gln Asn
 115 120 125
 Leu Leu Val Asp Arg Val Asp Pro Pro Val Thr Asp Ala Thr Gly Gly
 130 135 140
 Thr Ser Val Gly Asp Pro Ser Gly Gly Met Glu Gln Pro Asp Pro Arg
 145 150 155 160
 Pro Pro Val Leu Thr Met Thr Ile Thr Gly Ala Asp Arg Ala Gly Ala
 165 170 175
 Gly Leu Leu Thr Ala Met Leu Gly Val Leu Met Ile Gly Thr Thr Gly
 180 185 190
 Trp Leu Leu Tyr Glu
 195

<210> 31730

<211> 281

<212> PRT

<213> A.fumigatus

<400> 31730

Ser Pro Lys Ser Ala Thr Met His Cys Met Gln Leu Leu Trp Leu Leu
 1 5 10 15
 Thr Leu Ser Pro Ala Tyr Ser Ile Pro Leu Asp Pro Asn Asp Pro Thr
 20 25 30
 Ser Ile Lys Gln Ala Ala His His Val Ala Ala Asn Met Leu Ser His
 35 40 45
 Tyr Thr Gly Met Lys Pro Gly Asp Asn Pro Gly Asn Leu Pro Pro Pro
 50 55 60
 Tyr Tyr Trp Trp Glu Ala Gly Ala Met Phe Asn Ala Leu Ile Asp Tyr
 65 70 75 80
 Trp Tyr Leu Thr Gly Asp Ser Thr Trp Asn Ala Ile Thr Thr Gln Ala
 85 90 95
 Leu Thr Trp Gln Ala Gly His Thr Gly Thr Phe Met Pro Thr Asn Gln
 100 105 110
 Thr Lys Thr Glu Gly Asn Asp Asp Gln Ala Phe Trp Ala Phe Ala Ala
 115 120 125
 Met Ser Ala Ala Glu Arg Asn Phe Pro Asp Pro Asp Pro Asp His Gly
 130 135 140
 Pro Gly Trp Leu Ala Met Ala Gln Ala Val Phe Asn Thr Gln Ala Ala
 145 150 155 160
 Arg Trp Asp Glu Asp Thr Cys Gly Gly Gly Leu Arg Trp Gln Ile Phe
 165 170 175
 Ser Phe Asn Asn Gly Trp Asn Tyr Lys Asn Thr Ile Ser Asn Gly Cys

[illegible]

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<210> 31731
<211> 63
<212> PRT
<213> A.fumigatus
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<210> 31732
<211> 224
<212> PRT
<213> A.fumigatus
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<400>	31732														
Leu	Lys	Phe	Ser	Ile	Cys	Leu	Ser	Tyr	Val	Phe	Val	His	Asn	Leu	Asp
1				5					10					15	
Ala	Cys	His	Gln	Ser	Gln	Leu	Asp	Thr	Gly	Leu	Leu	Thr	Arg	Ala	Cys
			20					25					30		
Ile	Cys	Met	Arg	Thr	Tyr	Ala	Ile	Arg	Pro	Val	Ser	Asn	Arg	Leu	Pro
		35					40					45			
Gly	Pro	Ile	Glu	Pro	Lys	Lys	His	Arg	Arg	Asp	Arg	Asp	Asn	Ser	Thr
	50					55					60				
Thr	Gly	Ser	Leu	Tyr	Asn	Ala	Leu	Ile	His	Pro	Val	Gln	Arg	Glu	Lys
65					70					75				80	
Thr	Ile	Thr	Ser	Thr	Met	Ile	Arg	Val	Ala	Glu	Phe	Gln	Pro	Phe	Leu
				85					90					95	
Asn	Thr	Ile	Ser	Val	Leu	Gln	Val	Leu	Ala	Ala	Ile	Phe	Ile	Gly	Ala
			100					105					110		
Leu	Thr	Tyr	Arg	Leu	Ile	Asp	Ala	Phe	Phe	Leu	Ser	Pro	Leu	Arg	Ser
		115				120						125			
Ile	Pro	Gly	Pro	Leu	Leu	Ala	Arg	Leu	Thr	Thr	Lys	Arg	Ala	Asn	Val
	130					135					140				
Asp	Thr	Phe	Ser	Gly	Lys	Val	Thr	Gln	Thr	Val	Asp	Lys	Asp	Val	Ala
145					150					155				160	
Arg	Tyr	Gly	Asp	Val	Tyr	Val	Tyr	Lys	Pro	Arg	Ala	Val	Cys	Ile	Asn

12301

	165		170		175										
His	Pro	Asp	Asp	Ile	Arg	Ala	Val	Leu	Gly	Ser	Gln	Glu	Phe	Arg	Lys
	180							185					190		
Ala	Ala	Phe	Phe	Asp	Ile	Phe	Asn	Asp	Gly	Asn	Thr	Pro	Asn	Ile	Val
	195						200					205			
Ser	Leu	Arg	Glu	Pro	Glu	Leu	Ala	Asn	Arg	Arg	Ser	Ser	Pro	Arg	Gly
	210					215					220				

<210> 31733

<211> 254

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (233)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31733

Asp	Thr	Met	Ala	Leu	Pro	Ile	Ile	Leu	Cys	Leu	Ala	Val	Ile	Leu	Trp
1				5					10					15	
Thr	Ser	Trp	Arg	Leu	Leu	Asp	Ala	Leu	Phe	Leu	Ser	Pro	Leu	His	Arg
			20					25					30		
Val	Pro	Gly	Pro	Val	Leu	Ala	Arg	Leu	Thr	Pro	Leu	Arg	Ala	Ile	Tyr
		35					40					45			
Ala	Arg	Leu	Pro	Ser	Arg	Val	Ile	Pro	Ala	Ala	Leu	Ala	Asp	Phe	His
	50					55					60				
Ser	Tyr	Gly	Asp	Ile	Tyr	Leu	Ser	Lys	Pro	Arg	Thr	Ile	Thr	Ile	Ser
65					70					75				80	
His	Pro	Arg	Asp	Val	Arg	Ala	Ile	Leu	Ala	Ser	Ser	Glu	Phe	Gln	Lys
			85						90					95	
Ile	Asp	Val	Tyr	His	Gly	Leu	Asn	Asp	Pro	Val	Met	Ala	Asn	Ile	Val
		100						105					110		
Thr	Phe	Ser	Asp	Pro	Lys	Leu	Ala	Ser	Arg	Arg	Arg	Arg	Gln	Ile	Gly
		115				120						125			
Pro	Tyr	Phe	Asn	Pro	Ser	Tyr	Leu	Ala	Lys	Met	Glu	Glu	Leu	Ile	Leu
	130					135					140				
Trp	Cys	Gly	Cys	Arg	Ala	Val	Ala	Asp	Lys	Trp	Asp	Arg	Leu	Ile	Ala
145				150						155				160	
Gln	Gln	Gly	His	Gly	Pro	Gln	Lys	Ser	Val	Lys	Val	Asn	Tyr	Arg	His
			165					170					175		
Asp	Leu	Gln	Met	Ala	Thr	Phe	Asp	Ile	Met	Ser	Ala	Leu	Ala	Phe	Gly
		180					185					190			
Arg	Arg	Leu	Asp	Ser	Leu	Lys	Glu	Glu	Gly	Glu	Ser	Val	Ala	Ile	Val
		195				200						205			
Glu	Trp	Ile	Met	Ala	Thr	Ala	Val	Tyr	Ile	Gly	Val	Arg	Ile	Asn	Phe
	210					215					220				
Arg	Leu	Leu	Met	Val	Phe	Pro	Phe	Xaa	Pro	Leu	Val	Pro	Arg	Trp	Thr
225				230						235					240
Thr	Pro	Met	Pro	Asn	Leu	Phe	Ile	Leu	Pro	Ala	Thr	Thr	Gly		
			245					250							

<210> 31734

<211> 246

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (29)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31734

Ala Glu Leu Phe Lys Asp Leu Leu Val Leu Pro Arg Arg Leu Ser Leu
 1 5 10 15
 Arg Ser Gln Gly Ile Arg Ser Phe Gly Ser Pro Ala Xaa Glu Tyr Gly
 20 25 30
 Phe Pro Ser Thr His Ser Thr Asn Ala Val Ser Val Ala Val Tyr Val
 35 40 45
 Leu Thr Leu Leu Asn Ser Pro Asp Ser Thr Val Ser Ser His Ile Asn
 50 55 60
 Leu Ile Phe Gln Cys Met Thr Tyr Leu Tyr Val Ser Ser Ile Val Leu
 65 70 75 80
 Gly Arg Leu Tyr Cys Gly Met His Gly Phe Leu Asp Val Ile Val Gly
 85 90 95
 Cys Leu Leu Gly Ala Ser Ile Thr Phe Val Gln Asn Leu Phe Gly Pro
 100 105 110
 Leu Leu Asp Asp Tyr Val Phe Ser Ala Ser Gly Lys Gln Ile Ala Leu
 115 120 125
 Val Val Leu Val Ile Ile Ile Leu Val Arg Ile His Pro Glu Pro Ala
 130 135 140
 Asp Asp Cys Pro Cys Phe Asp Asp Ser Val Ala Phe Ala Gly Val Ile
 145 150 155 160
 Ile Gly Val Gln Leu Gly Cys Trp His Phe Ala Lys Ser Ser Ile Ala
 165 170 175
 Trp Ser Asp Pro Ser Pro Ala Thr Ile Pro Phe Arg Tyr Lys Asp Leu
 180 185 190
 Gly Leu Val Lys Thr Val Leu Arg Phe Val Leu Gly Val Phe Leu Ile
 195 200 205
 Phe Thr Trp Arg Glu Val Met Lys Pro Leu Leu Leu Arg Thr Leu Pro
 210 215 220
 Pro Ile Phe Arg Ala Leu Glu Lys Leu Gly Leu Leu Leu Pro Arg Arg
 225 230 235 240
 Phe Phe Thr Arg Ala Ser
 245

<210> 31735

<211> 238

<212> PRT

<213> A.fumigatus

<400> 31735

Ser Phe Gln Ala Pro Val Val Lys Thr Glu Ser Arg Thr Gln Ser Pro
 1 5 10 15
 Val Ala Leu Asn Arg Arg Gln Ser Asn Leu Asp Thr Thr Gly Ala Ser
 20 25 30
 Leu Ser Asp Tyr Arg Pro Thr Ser Arg Arg Ser Ser Thr Leu Leu Thr
 35 40 45
 Thr Ser Ser Asp Val Gly Thr Pro Pro Arg Gln Asn Ser Leu Pro Val
 50 55 60
 Pro Val Leu Ser Pro Pro Met Ser Thr Gly Leu Ser Asn Pro Pro Ile
 65 70 75 80

12303

Met Glu Ser Pro Val Ile Thr Phe Glu Pro Asp Asp Phe Phe Ser Gly
 85 90 95
 Ser Ala Thr Pro Ala Thr Pro Ser Ala Tyr Gly Phe Pro Pro Ser His
 100 105 110
 His Ser Arg Gly Ile Asn Asp Ile Ile Ser Glu Ser Thr Val Gly Ala
 115 120 125
 Gly Pro Ser Val Gln Leu Val Glu Arg Met Ser Ala Thr Val Arg Arg
 130 135 140
 Leu Glu Ser Glu Arg Ala Ala Ala Lys Asp Glu Leu Ala Arg Ile Thr
 145 150 155 160
 Arg Gln Arg Asp Glu Ala Arg Lys Gln Val Val Asp Leu Met Arg Glu
 165 170 175
 Ser Glu Glu Lys Lys Ala Ser Asp Ala Arg Val Gln Glu Leu Glu Thr
 180 185 190
 Arg Leu Glu Asp Leu Asp Gln Arg Tyr Gln Thr Thr Leu Glu Leu Leu
 195 200 205
 Gly Glu Lys Ser Glu Gln Val Glu Glu Leu Gln Ala Asp Ile Ala Asp
 210 215 220
 Leu Lys Lys Ile Tyr Arg Glu Leu Val Asp Ser Thr Met Lys
 225 230 235

<210> 31736

<211> 179

<212> PRT

<213> A.fumigatus

<400> 31736

Lys Met Gln Lys Ala Ile Pro Ser Ser Thr Cys Tyr Tyr Gly Lys Val
 1 5 10 15
 Gln Met Ser Ala Ser Arg Val Ser Gln Ala Arg Tyr Val Ser Met Thr
 20 25 30
 Thr Asp Pro Ala Thr Ser Phe Ser Phe Pro His Ala Arg Phe Asn Gln
 35 40 45
 Asn Ala Leu His Phe Ala Thr Ser Lys Gly Asn Leu Ser Thr Val Arg
 50 55 60
 Thr Leu Leu Ala Asn Lys Cys Ser Ala Arg Val Lys Asp Arg Arg Gly
 65 70 75 80
 Gln Leu Pro Leu His Arg Ala Ala Ala Ile Gly Ser Ile Pro Ile Ile
 85 90 95
 Lys Leu Leu Leu Glu Glu Gly Lys Ser Pro Val Asn Ala Thr Asp Ile
 100 105 110
 Asp Gly Leu Thr Ala Leu His His Ala Ile Ser Glu Gly His Gly Asp
 115 120 125
 Ala Ala Ile Thr Leu Leu Lys Ala Gly Ala Glu Ala Asp Lys Lys Asp
 130 135 140
 Ser Glu Gly Arg Leu Ala Ile Glu Thr Ala Pro Asp Ala Lys Val Ser
 145 150 155 160
 Cys Pro Arg Phe Ser Trp Leu Met Tyr Lys Arg Ala Asp Cys Arg Ser
 165 170 175
 Leu Leu Gly

<210> 31737

<211> 526

<212> PRT

<213> A.fumigatus

<400> 31737

Ala	Asp	Pro	Ala	Ser	Arg	Val	Val	Lys	Ile	Leu	Lys	Asp	Leu	Leu	Gly	1	5	10	15
His	Asp	Arg	Glu	His	Ala	Asn	Leu	Pro	Leu	Ala	Val	Leu	Phe	Ala	Lys	20	25	30	
Ser	Phe	Ser	Trp	Asp	Ile	Leu	Gly	Ala	Asn	Met	Val	Asp	Glu	Asn	Arg	35	40	45	
Lys	Thr	Val	Asp	Val	Asp	Gly	Thr	Thr	Thr	Ser	Val	Ala	Pro	Pro	Glu	50	55	60	
Thr	Val	Ser	Gly	Gly	Asp	Asp	Ala	Thr	Ala	Pro	Glu	Asn	Glu	Pro	Pro	65	70	75	
Leu	Val	Ser	Glu	Lys	Thr	Gln	Leu	Arg	Phe	Lys	Ser	Ile	Leu	Ser	Arg	85	90	95	
Tyr	Leu	Glu	Asp	Val	Lys	Ala	His	Val	Val	Arg	Asp	Gln	Arg	Ala	Leu	100	105	110	
Ala	Ala	Gln	Ser	Arg	Arg	Asn	Ala	Glu	Ala	Tyr	Val	Lys	Ser	Gly	Glu	115	120	125	
Ile	Phe	Glu	Asp	Arg	Gln	Ala	Asn	Phe	Asp	Lys	Gln	Ser	Lys	Ser	Leu	130	135	140	
Glu	Lys	Leu	Val	Ala	Asn	Thr	Gln	Val	Leu	Cys	Glu	Val	Leu	Gly	Val	145	150	155	
Glu	Met	Pro	Val	Leu	Ala	Glu	Gln	Glu	Ala	Ala	Asp	Ser	Ala	Ser	Ser	165	170	175	
Gly	Gly	Ile	Gly	Leu	Val	Lys	Thr	Ser	Glu	Tyr	Leu	Arg	Gly	Gln	Gly	180	185	190	
Glu	Gly	Pro	Gly	Ile	Trp	Glu	Asp	Glu	Glu	Glu	Arg	Arg	Phe	Tyr	Glu	195	200	205	
Asn	Leu	Val	Asp	Leu	Lys	Gly	Lys	Val	Pro	Pro	Val	Leu	Leu	Glu	Asp	210	215	220	
Gly	Lys	Lys	Lys	Lys	Ser	Asp	Ser	Asp	Asp	Ala	Lys	Lys	Arg	Thr		225	230	235	
Asp	Gly	Glu	Ala	Thr	Pro	Asp	Ser	Ser	Val	Glu	Lys	Pro	Glu	Asn	Ala	245	250	255	
Ser	Gln	Thr	Pro	Thr	Ser	Glu	Glu	Lys	Ser	Ala	Ala	Glu	Ala	Glu	Asp	260	265	270	
Gln	Ser	Thr	Ala	Ile	Ala	Ser	Lys	Thr	Val	Gly	Ala	Gln	Val	Asp	Ala	275	280	285	
Leu	Leu	Ala	Arg	Leu	Pro	Glu	Leu	Gln	Thr	Lys	Asp	Gln	Val	Asp	Gln	290	295	300	
Leu	Ala	Leu	Glu	Phe	Cys	Phe	Leu	Asn	Ser	Lys	Ala	Ser	Arg	Asn	Arg	305	310	315	
Leu	Ile	Lys	Ala	Val	Ser	Asp	Val	Pro	Lys	Gly	Arg	Val	Asp	Leu	Leu	325	330	335	
Pro	Leu	Tyr	Ser	Arg	Leu	Val	Ala	Thr	Leu	Gly	Gln	Tyr	Leu	Gln	Asp	340	345	350	
Ile	Pro	Gln	Gly	Leu	Ile	Thr	Tyr	Leu	Asp	Glu	Glu	Phe	Arg	Ser	Leu	355	360	365	
Gln	Arg	Arg	Lys	Ser	Lys	Glu	Phe	Leu	Gly	Gln	Val	Arg	Met	Thr	Asn	370	375	380	
Ile	Arg	Tyr	Phe	Ala	Glu	Leu	Thr	Lys	Phe	Gly	Val	Val	Pro	Glu	His	385	390	395	
Ile	Ile	Phe	His	Cys	Phe	Lys	Val	Ser	Leu	Asp	Asp	Phe	Ser	Arg	Met	405	410	415	
Asn	Ile	Glu	Ile	Ile	Gly	His	Leu	Leu	Glu	Asn	Cys	Gly	Arg	Tyr	Leu	420	425	430	

12305

Leu Arg Asn Pro Glu Thr Ser Pro Arg Met Ala Ser Phe Leu Glu Lys
 435 440 445
 Leu Gly Arg Lys Lys Ala Val Gln His Leu Gly Gln Gln Glu Arg Met
 450 455 460
 Ile Ile Glu Asn Ala Met Tyr Tyr Val Asp Pro Pro Pro Arg Pro Ala
 465 470 475 480
 Ile Gln Gln Lys Glu Arg Thr Pro Met Glu Ser Tyr Ile Arg Lys Leu
 485 490 495
 Ile Tyr Leu Asp Met Asn Lys Arg Asn Tyr Thr Lys Val Leu Lys Ser
 500 505 510
 Ile Arg Lys Leu His Trp Glu Glu Gln Asp Val Ser Pro Leu
 515 520 525

<210> 31738

<211> 126

<212> PRT

<213> A.fumigatus

<400> 31738

Ser Ser Ser Arg Tyr Leu Phe Phe Pro Leu Ser Leu Arg Glu Glu Cys
 1 5 10 15
 Gly Leu Thr Phe Ser Gln Tyr Tyr Tyr Leu Thr Lys Asp Pro Leu Pro
 20 25 30
 Met Asp Val Glu Phe Leu Ile Gln Asp Thr Phe Ala Met Ala Arg Pro
 35 40 45
 Gln Trp Lys Leu Met Thr Asp Leu Gln Glu Ala Thr Arg Leu Phe Ser
 50 55 60
 Glu Ala Val Ala Gln Asn Tyr Lys Thr Ser Asp Ser Glu Arg Pro Val
 65 70 75 80
 Glu Pro Asp Glu Asp Asp Ala Glu Ser Ser Ser Ser Asp Asp Gly Leu
 85 90 95
 Glu Asp Asp Ala Ile Pro Glu Ala Glu Glu Gln Glu Ser Ser Asp
 100 105 110
 Glu Ala Glu Val Ser Phe Thr Ser Ile Arg Ala Lys Ser Pro
 115 120 125

<210> 31739

<211> 83

<212> PRT

<213> A.fumigatus

<400> 31739

Val Val Asp Ile Met Glu Arg Val Phe Ser Lys Pro Val Lys Val Lys
 1 5 10 15
 Tyr Gly Asn Ile His Leu Leu Ala Ile Leu Val Ser Ala Leu Tyr Arg
 20 25 30
 Tyr His Gln Asp Phe Val Ile Ser Val Val Asp Asn Ile Leu Glu Gln
 35 40 45
 Ile Thr Leu Gly Leu Glu Gln Asn Asp Phe Lys Phe Asn Gln Lys Arg
 50 55 60
 Val Ala Glu Val Lys Tyr Leu Gly Glu Leu Tyr Asn Tyr Lys Met Ile
 65 70 75 80
 Asp Ser Pro

<210> 31740

<211> 133
 <212> PRT
 <213> A.fumigatus

<400> 31740

```

Ser Leu Ile Arg Cys Thr Gly Leu Ser Leu Leu Ala Thr Val Ser Ile
1           5           10           15
Phe Gly Phe Ile Ile Val Phe Tyr Tyr Ser Gln Tyr Tyr Val Glu Gly
          20           25           30
Gly Thr Pro Ile Pro Gly Lys Leu Asn Pro Leu Asp Leu Pro Asp Asp
          35           40           45
Phe Phe Arg Ile Arg Leu Val Cys Thr Leu Leu Asp Thr Cys Gly His
          50           55           60
Cys Phe Asp Arg Gly Ser Ala Lys Lys Lys Leu Asp Phe Phe Leu Ile
65           70           75           80
Phe Phe Gln Val Ser Leu Leu Pro Ala Gln Ser Ser Arg Gly Val Trp
          85           90           95
Ser Asp Ile Phe Thr Val Leu Leu Ser Tyr Lys Gly Ser Phe Ala Tyr
          100          105          110
Gly Arg Arg Ile Leu Asp Pro Gly His Leu Arg Tyr Gly Ser Ser Ser
          115          120          125
Met Glu Val Asp Asp
          130

```

<210> 31741
 <211> 83
 <212> PRT
 <213> A.fumigatus

<400> 31741

```

Ala Asn Phe His Ser Phe Ser Val Thr Val Ile Ile Ile Ile Ile Ile
1           5           10           15
Ile Ile Ile Ile Ile Ile Ile Ile Ile Ile Tyr Ala Leu Glu Cys
          20           25           30
Asn Gln Asn Pro Arg Thr Pro His Pro Leu His Ser Phe Cys Asp Arg
          35           40           45
Pro Pro Gln Leu Ser Gly Gly Ser Pro Pro Leu Leu Asn His Ser Ala
          50           55           60
Ile Arg Ile Val Ser Pro Arg Leu Arg Ser Ile Ser Pro Cys Leu Ser
65           70           75           80
Ser Pro Val

```

<210> 31742
 <211> 201
 <212> PRT
 <213> A.fumigatus

<400> 31742

```

Met Trp Ser Leu Pro Val Thr Thr Ser Gly Pro Pro Pro Arg Ser Pro
1           5           10           15
Ala Ser Thr Ala Gly Thr Met Ser Ile Pro Leu Pro Arg Leu Ser Leu
          20           25           30
Pro Arg Arg Gly Asp Pro Ala Asp Ser Asp Ala Ala Lys Pro Glu Glu
          35           40           45
Ser Ser Val Arg Lys Gly Arg Arg Thr Lys Ile Pro Tyr Glu Ser Ile

```


12307

50		55		60
Leu Leu Leu Thr Ser Thr Ser Thr Phe Pro Lys Ser Gln Val Pro Glu				
65		70		80
Gly Thr Ser Glu Gly Leu Pro Thr Asn Gly Gln Gln Arg Ser Pro Asp				
	85		90	95
Pro Thr Leu Asp Asp Asp Leu Asp Leu Asn Leu Pro Val Tyr Ser Leu				
	100		105	110
Pro Asp Glu Thr Ile Glu Gly Gln His Gly Leu Ile Lys His Phe Met				
	115		120	125
Leu Asn Asp Arg Lys Arg Thr Leu Thr Gln Asp Ser Ala Gly Glu Val				
	130		135	140
Asp Leu Trp Asp Leu Leu Lys Val Ile Phe Leu Ser Arg His Pro Ser				
145		150		155
Ile Arg Phe Leu Leu Thr Leu Ala Val Gln Thr Asn Thr Ile Phe Arg				
	165		170	175
Gln Ala Pro Tyr Gly Arg Arg Arg Ile Gly Asp Gln Tyr Tyr Arg Glu				
	180		185	190
His Arg Ser Leu Val His Asp Arg His				
	195		200	

<210> 31743
 <211> 84
 <212> PRT
 <213> A.fumigatus

<400> 31743
Ser Gln Phe Ile Thr Pro Leu Leu Cys Ile Phe Pro Leu Phe Pro Ser
1 5 10 15
Phe Glu Leu Cys Tyr Leu Thr Ile Glu Leu Thr Phe Ile Leu Ser Leu
20 25 30
Ser Leu Leu Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser
35 40 45
Ser Ser Ser Ser Met Pro Leu Asn Ala Ile Lys Ile Leu Val Pro His
50 55 60
Ile Leu Cys Thr Pro Phe Val Ile Val Pro Pro Ser Cys Pro Ala Asp
65 70 75 80
His His His Tyr

<210> 31744
 <211> 75
 <212> PRT
 <213> A.fumigatus

<400> 31744
Pro Leu Gln Cys Lys Pro Ile Gln Ser Phe Gly Lys Arg His Met Asp
1 5 10 15
Asp Val Ala Ser Glu Ile Asn Thr Thr Glu Ser Ile Ala His Trp Cys
20 25 30
Thr Ile Asp Ile Arg Thr Gly Arg Leu Ser Val Ile Leu Glu Leu Asn
35 40 45
Arg Cys Phe Asp Ala Glu Val Tyr Ala Asp Glu Ala Asp Leu His Asp
50 55 60
Tyr Ser Gln Ile Leu Gly Asp Gln Arg Ser Gly
65 70 75

<210> 31745
 <211> 320
 <212> PRT
 <213> A.fumigatus

<400> 31745
 Leu Thr Ala Ala Phe Pro Arg Tyr Ser Ala Gly Arg Asp Gly Val Ile
 1 5 10 15
 Cys Ala Trp Asp Leu Asn Leu Pro Leu Ser Ala Ser Lys Ser Ser Pro
 20 25 30
 Ala Leu Gly Ala Gln Lys Ser Gly Pro Thr Thr Phe Arg His Gln Val
 35 40 45
 Gln Ala His Ser His Trp Ile Asn Asp Ile Val Leu Thr Gln Asn Asn
 50 55 60
 Thr Ala Leu Val Ser Ala Ser Ser Asp Thr Thr Val Arg Leu Trp Arg
 65 70 75 80
 Pro His Ser Glu Ser Thr Glu Leu Pro Ser Pro Ile Gly Lys His Ala
 85 90 95
 Asp Tyr Val Lys Ala Leu Ala Thr Pro Gly Gly His Ser Ser Trp Val
 100 105 110
 Ala Ser Gly Gly Leu Asp His Lys Leu His Leu Trp Asp Leu Asn Gly
 115 120 125
 Gly Gly Glu Leu Leu Ser Ile Asp Ala Cys Gly Gly Glu Ser Thr Ala
 130 135 140
 Lys Gly Ser Val Tyr Ala Leu Gly Ala Val Ser Ser Val Leu Ala Ser
 145 150 155 160
 Gly Gly Pro Glu Ser Val Val Arg Val Trp Asp Pro Lys Ser Gly Lys
 165 170 175
 Pro Ile Thr Lys Phe Val Gly His Thr Asp Asn Ile Arg Asp Ile Leu
 180 185 190
 Ile Thr Arg Asp Gly Asp Arg Ile Met Thr Ala Ser Ser Asp Gln Thr
 195 200 205
 Ile Lys Ile Trp Ser Leu Thr Ala Gly Arg Cys Met His Thr Leu Thr
 210 215 220
 Met His Asn Asp Ser Val Trp Ser Leu Tyr Ser Ser His Pro Gln Leu
 225 230 235 240
 Ser Val Phe Tyr Ser Ser Asp Arg Ser Gly Leu Val Ala Lys Thr Asp
 245 250 255
 Thr Arg His Cys Ser Asp Val Asp Gln Gly Ile Cys Val Ala Ala Leu
 260 265 270
 Gln Glu Asn Asp Gly Val Val Asn Val Val Ala Ala Gly Asp Tyr Ile
 275 280 285
 Trp Thr Ala Thr Pro Lys Ser Ser Ile Asn Arg Trp Tyr Asp Val Asp
 290 295 300
 Thr Thr Ala Glu Ile Glu Ser Pro Ser Ser Arg Gly Pro Arg Arg Leu
 305 310 315 320

<210> 31746
 <211> 94
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (61), (85), (89)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31746

```

Tyr Ala Glu Thr Asp Arg His Pro Leu Ala Ile Pro Asn Pro His Asn
1           5           10           15
Thr Asp Gln Asn Asp Thr Arg Ser Leu Ser Ser Ser Ile Tyr Tyr His
          20           25           30
Leu Asn Pro Asp Ser Gln Pro Ala Ser Ser Pro Glu Thr Ala Ala His
          35           40           45
Asn His Ala Leu His Arg Gly Leu Ala Arg Tyr Val Xaa Ile His Pro
          50           55           60
Asp Ser Ala Asn Asp Asn Gly Thr Ala Pro Val Thr Ser Phe Val Val
65           70           75           80
Gly Pro Asp Leu Xaa Gln Gly Glu Xaa Asn His Cys Val Val
          85           90

```

<210> 31747

<211> 166

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (143), (166)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31747

```

Tyr Asn Phe Ile Leu Tyr Leu Leu Gly Arg Asn Glu Gln Thr Pro Arg
1           5           10           15
Tyr Thr Ser Leu Ser Thr Thr Ile His Leu Arg Arg Ile Gln Val Pro
          20           25           30
Glu Ile Pro Trp Thr Ser Pro Ser Pro Pro Phe Asn His Ser Ile Thr
          35           40           45
His Leu Pro Pro Ala Pro Asn Pro Ser Pro Asn Pro Asn Pro His Pro
          50           55           60
Ser Lys Gln Ser Ser Lys Pro Ser Ile Ser Ser Leu Thr Gln Lys Glu
65           70           75           80
Val Ser Thr Pro Lys Gln Thr Val Thr Arg Ser Pro Ser Pro Ile His
          85           90           95
Thr Thr Gln Thr Lys Thr Thr Pro Ala Pro Ser Pro His Gln Ser Thr
          100          105          110
Thr Ile Ser Thr Pro Thr Pro Asn Leu Arg Leu His Leu Lys Pro Gln
          115          120          125
Arg Thr Ile Thr Pro Ser Ile Val Val Trp Arg Gly Met Ser Xaa Ser
          130          135          140
Thr Pro Ile Arg Arg Thr Thr Met Ala Arg Arg Pro Leu Arg Pro Ser
145          150          155          160
Trp Ser Val Arg Ile Xaa
          165

```

<210> 31748

<211> 225

<212> PRT

<213> A.fumigatus

<400> 31748

```

Gln Cys Val Lys Val Tyr His Pro Arg Val Lys Ala Gln Ala Ile Tyr

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12310

```

1           5           10           15
Val Pro Thr Met Ala Ser Thr Ser Gln Ser Arg Phe His Glu Asp Leu
          20          25          30
Arg Asp Asp Gly Ser Ile Leu Asp Asp Asp Leu Ile Glu Ala Asp Asp
          35          40          45
Gly Glu Tyr Ile Ser Phe Ser Arg Phe Ser Leu Asp Cys Ile Arg Pro
          50          55          60
Ala Leu Val Cys Leu Pro Glu Leu Leu Arg Cys Thr Asp Thr Cys Tyr
          65          70          75          80
Leu Ser Ile Met Pro Ala Ile Glu Ala Asp Asp Pro Leu His Thr Ser
          85          90          95
Asp Thr Ala Pro Leu Arg Gly Asn Ile Gln Ser Glu Pro Ser Ser Ser
          100          105          110
Ser Arg Gly Gly Phe Gly Ser Asn Leu Ser Ser Asn Tyr Leu Thr Ser
          115          120          125
Thr Ile Pro Gly Glu Asp Arg Arg Ala Thr Gln Asn Thr Ile Asp Glu
          130          135          140
Thr Val Trp Glu Thr Leu Ser Arg Asp Leu Arg Ala Val Trp Glu Lys
          145          150          155          160
Met Arg Gln Val Leu Trp Pro Lys Tyr Leu Met Gly Gly Met Leu Gln
          165          170          175
Arg Gly Gly Gly Gly Ile Gly Ala Ala Glu Arg Gly Glu Ala Thr Gly
          180          185          190
Phe Gly Gly Gly Leu Arg Gly Leu Val Gly Arg Trp Pro Asp Ala Asp
          195          200          205
Val Val Leu Gln Gly Gly Met Ser Glu Gly Leu Arg Asp Trp Asp Leu
          210          215          220
Trp
225

```

<210> 31749

<211> 429

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (55)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31749

```

Cys Cys Ser Pro Val Asn Arg Gly Gln Leu Asp Ile Asp Thr Gln Leu
1           5           10           15
Gly Gly Pro Met Ala Arg Leu Leu Leu Glu Gly Gly Ser Asp Arg Asp
          20          25          30
Cys Tyr Asp Val Phe Ala Leu Leu Asn Gln Thr Thr Gly Leu Pro Ile
          35          40          45
Leu Ala Lys Lys Pro Ser Xaa Glu Arg Gln Arg Glu Ser Glu Val Ala
          50          55          60
Arg Arg Arg Lys Ser Arg Ser Ala Glu Asn Lys Glu Met Glu Asp Val
          65          70          75          80
Pro Phe Val Asp Glu Gly Asn Arg Pro Tyr Lys Pro Ala Glu Thr Glu
          85          90          95
Met Glu Glu Arg Glu Glu Lys Thr Glu Gln Thr Glu Glu Glu Glu Asp
          100          105          110
Asp Glu Glu Phe Glu Asn Leu Phe Asp Pro Val Val Ser Thr Gly Ser

```

115 120 125
 Ser Ser Lys Thr Lys Lys Gly Asn Ile Gly Pro Ser Tyr Val Val Leu
 130 135 140
 Gly Asp Gln Glu Leu Thr Ile Leu Ile Glu Thr Cys Tyr Thr Met Thr
 145 150 155 160
 Gln Gly Val Gly Thr Gly Lys Ala Tyr Trp Lys Tyr Leu Thr Leu Glu
 165 170 175
 Asp His Glu Tyr Thr Ile Lys Pro Gly Met Pro Ser Leu His Ala Tyr
 180 185 190
 Leu Arg Leu Leu Arg Val Tyr Arg Ala Ser Arg Ala Thr Val Asp Val
 195 200 205
 Val Arg Asp Gln Val Pro Glu Pro Gly Trp Lys Thr Phe His Ile Ala
 210 215 220
 Met Ser Cys Cys Leu Arg Asp Arg Arg Asn Ile Asn Ile Leu Lys Asn
 225 230 235 240
 Ala Asn Glu Leu Leu Gly Ile Met Asp Lys Ser Met Val Leu Pro His
 245 250 255
 Pro Arg Ala Leu Asp Lys Tyr Leu Asn Leu Val Gln Thr Leu Gln Asp
 260 265 270
 Asn Pro Gln Arg Leu Ile Ser Leu Asn Gly Leu Lys Ile Ala Arg Lys
 275 280 285
 Pro Ser Asp Ser Leu Asp Val Val Gly Arg Lys Leu Arg Leu Ser Leu
 290 295 300
 Gln Thr Val Ala Leu Glu Asn Leu Arg Pro His Ile Asp Lys Leu His
 305 310 315 320
 Glu Ala Leu Lys Asn Gly Lys Thr Ser Phe Ile Ser His Val Glu Arg
 325 330 335
 Arg Gln Ala Gly Ala Ala Asp Thr Val Cys Gly Ala Thr Ala Arg Thr
 340 345 350
 Val Met Asp Arg Thr Arg Gly Leu Ile Asp Glu Leu Lys Pro Glu
 355 360 365
 Asn Ala Pro Phe Leu Ser Lys Ser Asp Arg Glu Gln Leu Glu Gln Glu
 370 375 380
 Ser Gln Lys Leu Arg Val Tyr Ser Asp Val Glu Met Val Arg Lys Phe
 385 390 395 400
 Glu Ser Thr Arg Leu His Pro Thr Phe Glu Gln Val Met Ala Phe Gln
 405 410 415
 Glu Lys His Asp Pro Lys Gln Asn Thr Asp Glu Ala Asp
 420 425

<210> 31750

<211> 85

<212> PRT

<213> A.fumigatus

<400> 31750

Val Arg Ala Leu Arg Lys Met Gln Ile Leu Ser Lys Leu Ala Ser Tyr
 1 5 10 15
 Asn Leu Pro Ser Val Lys Glu Met Thr Arg Tyr Thr Gly Glu Ser Leu
 20 25 30
 Ala Thr Arg Lys Ser Ile Lys Ala Tyr Leu Pro Asn His Ala Ile Ile
 35 40 45
 His Val Ser Ser Leu Tyr Lys Asn Val Ser Gly Trp Lys Phe Phe Met
 50 55 60
 Gln Ile Asn Ser Lys Pro Lys Asn Val Pro Gly Arg Cys His Leu Pro
 65 70 75 80

Thr Ala Thr Ser Ser
85

<210> 31751
<211> 78
<212> PRT
<213> A.fumigatus

<400> 31751
Ala Ile Arg Gly Lys Gly His Leu Ser Cys Ser Phe Leu Leu Arg Arg
1 5 10 15
Ile Gly Phe Tyr Val Asp Ala Leu Thr Gln Phe Asp Met Lys Phe Ser
20 25 30
Ile Tyr Tyr Asn Thr Ile Asn Glu Asn Tyr Gly Ser Gln Gln Ile Asn
35 40 45
Phe Ala Thr Asp Thr Gly Ile Ser Leu Ser Met Ala Tyr Arg Ala Ser
50 55 60
Gln Val Arg Leu Tyr Val Ala Tyr Thr Val Phe Asp Ser Leu
65 70 75

<210> 31752
<211> 400
<212> PRT
<213> A.fumigatus

<400> 31752
Ser Thr Ser Val Phe Arg Gln Leu Arg Val Lys Thr Ser Asp Gly Ala
1 5 10 15
Ala Asn Thr Ala Pro Tyr Ser Arg Leu Asp Ser Arg Gln Arg Lys Lys
20 25 30
Leu His Thr Glu Lys Leu Glu Glu Lys Lys His Phe Thr Gln Val
35 40 45
Ile Ser Glu Leu Glu Glu Ala Leu Gln Asn Met Lys Leu Arg Glu Ala
50 55 60
Glu Leu Leu Arg Glu Lys Ser Glu Trp Met Ala Ala Gln Gln Gln Ile
65 70 75 80
Asn Gln Tyr Ile Glu Gly Leu His Met Asp Lys Asp Glu Met Leu Arg
85 90 95
Val His Thr Leu Glu Thr Ala Glu Leu Arg Lys Lys Asn Asn Ile Leu
100 105 110
Lys Glu Thr Val Glu Lys Leu Glu Arg Gln Met Gly Ser Ser Ala Thr
115 120 125
Asn Asn Leu Asn Thr Asp Phe Ser Asp Phe Glu Asn Phe Thr Met Asp
130 135 140
Asn Ala Pro Trp Glu Asp Phe Thr Ile Ser Asn Ser Leu Pro Leu Glu
145 150 155 160
Ala Glu Ser Thr Pro Ala Thr Ser Thr Met Gln Ser Ser Ala Met Val
165 170 175
Met Ser Ala Ser Asp Arg Val Thr Glu Lys Ser Thr Asn Thr Ala Cys
180 185 190
Asp Tyr Pro Phe Ser Trp Asn Ala Phe Tyr Met Cys Leu Leu Phe Gly
195 200 205
Ala Phe Leu Ala Ser Asn Gly Pro Ser Leu Ser Ser Arg Ser Ile Pro
210 215 220
Gln Leu Ser Glu Glu Tyr Arg Ala Glu Ser Ala Asn Val Leu Lys Ala
225 230 235 240

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<210> 31753
<211> 82
<212> PRT
<213> A.fumigatus
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<210> 31754
<211> 122
<212> PRT
<213> A.fumigatus
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<400> 31754															
Ile	Glu	Ser	Leu	His	Tyr	Ala	Thr	Leu	Gln	Ser	Ile	Ser	Arg	Leu	Arg
1				5					10					15	
Ser	Ser	Gly	Pro	Thr	Gln	Leu	Ile	Ile	Asp	Asp	Pro	Gly	Ile	Asp	Leu
			20					25					30		
Phe	Met	Gln	Cys	Gly	Asn	Lys	His	Asn	Trp	Arg	Met	Glu	Ile	Leu	Thr
		35					40					45			
Tyr	Gly	Thr	Phe	His	Thr	Leu	Ser	His	Ile	Lys	Gly	Lys	Val	Ser	Glu
	50					55					60				
Trp	Ser	Lys	Glu	His	Gly	Ser	Gly	Thr	Glu	Pro	Thr	Asn	Cys	Phe	Val
65					70					75					80

12314

Ser Phe Arg Val Ser Gln Gly Ala Trp Val Arg Ile Pro Pro Leu Ser
 85 90 95
 Phe His Val Ser Phe Cys Leu Phe Ile Ile Val Cys Leu Ile Ile Ser
 100 105 110
 Ser Leu Ser Asn Asp Thr Val Ile His Glu
 115 120

<210> 31755
 <211> 92
 <212> PRT
 <213> A.fumigatus

<400> 31755
 Ala Thr Ser Ala Phe Ser Gln Gln His Tyr Thr Ser Asn Ala Glu Leu
 1 5 10 15
 Phe Ile Gln Ala Val Glu Ala Leu His Ala Leu Tyr Ser Arg Ser
 20 25 30
 Asn Phe Glu Ile Glu Asp Phe Gln Pro Leu Val His Leu Met Tyr Glu
 35 40 45
 Thr Glu Tyr Leu Thr Leu Leu Arg Lys Leu Tyr Glu Trp Ser Ile Val
 50 55 60
 Gly Pro Asp Asp Ile Asp Asp Thr Arg Tyr Thr Ile Ser Lys Lys Leu
 65 70 75 80
 Ser Glu Val Gly Thr Ser Arg Pro Arg Cys Leu Pro
 85 90

<210> 31756
 <211> 299
 <212> PRT
 <213> A.fumigatus

<400> 31756
 Val Ser Thr Pro Val Asp Gly Met Ala Ala Gln Asp Glu Leu Ser Glu
 1 5 10 15
 Gly Gly Met Ala Asp Leu Val Arg Ala Leu Glu Leu Ile His Asn Pro
 20 25 30
 Ser Ser Thr Asn Asp Leu Arg Arg Gln Ala Leu Thr Phe Val Glu Ser
 35 40 45
 Gln Lys Glu Ser Lys Leu Ala Ala Arg Asn Gly Phe Leu Leu Ala Ser
 50 55 60
 Arg Val Glu Asn Ala Pro Leu Val Arg Tyr Phe Gly Leu Thr Leu Leu
 65 70 75 80
 Asp His Val Leu Arg His Thr Ser Phe Thr Ala Ala Asp Gln Val Ala
 85 90 95
 Ile Leu Arg Asp Phe Val Leu Lys Leu Ala Glu Ser Ile Arg Pro Glu
 100 105 110
 Asp Pro Ala Tyr Tyr Arg Asn Lys Ile Pro Gln Leu Trp Val Glu Ile
 115 120 125
 Ala Lys Arg Ser Trp Gly Leu Asp Trp Leu Ala Met Asp Glu Ile Leu
 130 135 140
 Val Gln Phe Trp Gly Ala Ser Leu Val His Lys Glu Leu Val Leu Ser
 145 150 155 160
 Ile Leu Glu Thr Leu Ser Glu Asp Ile Phe Tyr Arg Glu Asp Thr Val
 165 170 175
 Ser Ser Leu Arg Gly Thr Asp Leu Asn Arg Ala Leu Val Glu Ile Cys
 180 185 190

12315

Thr Pro Leu Ser Val Phe Glu Glu Ile Tyr Pro Lys Arg Glu His His
 195 200 205
 Val Glu Leu Arg Cys Gly Thr Glu Gly Trp Leu Ala Arg Thr Cys Glu
 210 215 220
 Phe Leu Ile Tyr Cys Val Glu Asn Leu Gln Ala Ser Ile Gln Ala Arg
 225 230 235 240
 Asp Ala Ala Leu Lys Ala Leu Ala Thr Leu Lys Ser Ile Leu Val Trp
 245 250 255
 Ala Ile Pro Lys Ala Ile Met Ser Thr Asn Cys Val Ser Ser Ile Val
 260 265 270
 Arg Pro Leu Thr Cys Ser Asp Glu Gln Val Leu Leu Val Ser His Leu
 275 280 285
 Gly Leu Phe Pro Ala Ala Leu His Glu Gln Cys
 290 295

<210> 31757

<211> 438

<212> PRT

<213> A.fumigatus

<400> 31757

Trp Gly Leu Pro Arg Pro Val Leu Leu Ala His Val Val Glu Asp Glu
 1 5 10 15
 Gly Asp Lys Glu Ala Arg Gly Gln Lys Val Val Val Asp Glu Glu Lys
 20 25 30
 Glu Ala Lys Lys Lys Lys Lys Ala Lys Asp Ala Lys Ala Val Lys Leu
 35 40 45
 Asp Asp Ala Leu Val Lys Glu Tyr Glu Glu Ile Leu Ala Gln Ile Asp
 50 55 60
 Asn Phe Asp Gly Thr Gln Leu Glu Glu Ile Ile Ala Lys His Asp Ile
 65 70 75 80
 Arg Asn Pro Thr Thr Asp Gly Asn Leu Leu Pro Pro Val Ala Phe Asn
 85 90 95
 Leu Met Phe Gln Thr Ser Ile Gly Pro Ser Ser Asn Met Pro Gly Tyr
 100 105 110
 Leu Arg Pro Glu Thr Ala Gln Gly Gln Phe Leu Asn Phe Gln Lys Leu
 115 120 125
 Leu Glu Phe Asn Gln Gln Ser Met Pro Phe Ala Ser Ala Ser Ile Gly
 130 135 140
 Lys Ser Phe Arg Asn Glu Ile Ser Pro Arg Ala Gly Leu Leu Arg Val
 145 150 155 160
 Arg Glu Phe Leu Met Ala Glu Ile Glu His Tyr Val Asp Pro Glu Gly
 165 170 175
 Gly Lys Lys His His Arg Phe Glu Glu Val Lys Asp Ile Glu Met Ala
 180 185 190
 Phe Leu Asn Arg Asn Val Gln Leu Ser Gly Cys Thr Lys Thr Glu Lys
 195 200 205
 Met Thr Ile Gly Lys Ala Val Glu Thr Gly Met Val Asp Asn Glu Thr
 210 215 220
 Leu Gly Tyr Phe Ile Ala Arg Ile Gln Leu Phe Leu Leu Lys Leu Gly
 225 230 235 240
 Val Asp Pro Asn Lys Leu Arg Phe Arg Gln His Met Ala Asn Glu Met
 245 250 255
 Ala His Tyr Ala Ala Asp Cys Trp Asp Ala Glu Leu Leu Thr Ser Tyr
 260 265 270
 Gly Trp Ile Glu Cys Val Gly Cys Ala Asp Arg Ser Ala Tyr Asp Leu

12316

275 280 285
 Thr Val His Lys Asn Lys Thr Gly Ala Pro Leu Val Val Arg Glu Pro
 290 295 300
 Arg Ala Glu Pro Leu Lys Ile Glu Glu Trp Gln Val Asp Leu Asp Lys
 305 310 315 320
 Lys Lys Phe Gly Pro Arg Phe Lys Lys Asp Gly Lys Ala Val Ala Ala
 325 330 335
 Ala Val Glu Ala Leu Ser Gln Glu Leu Arg Glu Lys Leu Ala Ile Asp
 340 345 350
 Leu Glu Lys Asn Gly Lys Ile Glu Val Asp Val Glu Gly Val Gly Ser
 355 360 365
 Gly Lys Val Glu Leu Asp Gln Asp Ile Val Lys Ile Glu Lys Arg Thr
 370 375 380
 Arg Val Glu Asn Val Arg Glu Tyr Thr Pro Asn Val Ile Glu Pro Ser
 385 390 395 400
 Phe Gly Ile Gly Arg Ile Leu Tyr Ser Met Ile Glu His Val Tyr Trp
 405 410 415
 Ala Arg Glu Glu Asp Glu Ala Arg Gly Val Arg Ile Pro Ile Ser Ser
 420 425 430
 Arg Cys Val Gly His Arg
 435

<210> 31758
 <211> 127
 <212> PRT
 <213> A.fumigatus

<400> 31758
 Val Leu Ser Phe Pro Pro Ala Ile Ala Pro Thr Lys Val Leu Ile Val
 1 5 10 15
 Pro Leu Ser Thr His Ala Ser Phe Arg Pro Leu Leu Gln Gln Leu Met
 20 25 30
 Thr Lys Leu Arg Arg Met Gly Ile Ser Asn Arg Val Asp Asp Ser Ser
 35 40 45
 Ala Ser Ile Gly Lys Arg Tyr Ala Arg Asn Asp Glu Leu Gly Thr Pro
 50 55 60
 Phe Gly Ile Thr Val Asp Phe Gln Ser Val Lys Asp Asn Thr Phe Thr
 65 70 75 80
 Leu Arg Asp Arg Asp Thr Thr Lys Gln Val Arg Ala Ser Glu Asp Glu
 85 90 95
 Ile Leu Gln Ala Ile Lys Ser Leu Val Asp Gly Glu Lys Thr Trp Glu
 100 105 110
 Asp Ile Arg Lys Glu Leu Pro Glu Phe Thr Gly Gln Glu Val Asp
 115 120 125

<210> 31759
 <211> 285
 <212> PRT
 <213> A.fumigatus

<400> 31759
 Cys Glu Arg Gln Leu Tyr Thr Leu Gln Arg Tyr Gln Pro Ser Gln Met
 1 5 10 15
 Pro Ser Asp Trp Val Ser Ser Ala Leu Leu Cys Leu Phe Thr Thr Glu
 20 25 30
 Thr Leu Thr Ala Arg Pro Phe Arg Glu Asp Ile Thr Thr Cys Gln Lys

12317

35 40 45
 Lys Gly Lys Thr Ile Leu Leu Ser Ile Gly Gly Ala Thr Tyr Ser Glu
 50 55 60
 Gly Gly Phe Ser Ser Glu Pro Ala Ala Lys Ala Gly Ala Glu Leu Val
 65 70 75 80
 Trp Gln Thr Phe Gly Pro Pro Ser Ile Asn Ala Thr Ala His Arg Pro
 85 90 95
 Phe Gly Asn Ala Ser Val Asp Gly Phe Asp Phe Asp Phe Glu Ala Ser
 100 105 110
 Val Ser Asn Val Ala Pro Phe Ala Asn Arg Leu Arg Glu Leu Met Asp
 115 120 125
 Ala Asp His Arg Arg Asp Tyr Phe Leu Thr Ala Ala Pro Gln Cys Pro
 130 135 140
 Tyr Pro Asp Ala Ala Asp Lys Asp Ile Leu Asn Gly Pro Val Ser Val
 145 150 155 160
 Asp Ala Val Phe Val Gln Phe Tyr Asn Asn Trp Cys Gly Leu Asn Ser
 165 170 175
 Phe Glu Ala Gly Glu Ser Lys Gln Asn Ser Phe Asn Phe Asp Val Trp
 180 185 190
 Asp Asn Trp Ala Lys Thr Val Ser Leu Asn Lys Lys Ala Lys Val Phe
 195 200 205
 Leu Gly Val Pro Ala Asn Thr Gly Ala Ala Gly Ser Gly Tyr Val Pro
 210 215 220
 Val Asp Thr Leu Lys Pro Ile Ile Glu Tyr Ser Lys Lys Phe Ser Ser
 225 230 235 240
 Phe Gly Gly Val Met Met Trp Asp Val Thr Gln Ala Tyr Gly Asn Thr
 245 250 255
 Gly Phe Leu Asp Gly Val Ala Gln Ala Leu Gly Lys Thr Ala Ser His
 260 265 270
 Val Arg Arg Ser Cys Arg Tyr Arg Pro Tyr Gly Trp Phe
 275 280 285

<210> 31760

<211> 103

<212> PRT

<213> A.fumigatus

<400> 31760

Val Glu Val Ser Gln Val Ala Val Pro Pro Pro Ser Leu Leu Tyr Arg
 1 5 10 15
 Ile Val Arg Met Val Pro Lys Ser Leu Leu Tyr Thr Ile Phe Ser Ser
 20 25 30
 Leu Ala Val Ala Leu Ala Ala Ser Val Pro His Thr Asp Tyr Glu Val
 35 40 45
 Met Ile Ile Gly Gly Gly Pro Ser Gly Leu Ser Ala Ala Ser Gly Leu
 50 55 60
 Ser Arg Val Arg Arg Lys Asn Ile Val Phe Asp Ser Gly Glu Tyr Arg
 65 70 75 80
 Asn Gly Pro Thr Arg Asn Met His Asp Val Ile Gly Asn Asp Gly Ser
 85 90 95
 Cys Pro His Phe Pro Ala Phe
 100

<210> 31761

<211> 115

<212> PRT

<213> A.fumigatus

<400> 31761

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Arg Leu Cys Lys Leu Thr Ser Val Phe Ala Gly Ala Val Pro Ser Asp
1      5      10      15
Phe Arg Ala Leu Ala Arg Asn Gln Ile Ser Lys Tyr Asn Gln Thr Thr
      20      25      30
Trp Val Asn Glu Lys Val Asp Ser Val Arg Val Ile Thr Asp Glu Glu
      35      40      45
Ala Lys His Pro Pro Thr Phe Arg Gly Leu Gly Ser Arg Gly Lys Pro
      50      55      60
Lys Gln Ala Gly Arg Ala Ile Pro Trp Asp Arg Ala Gly Arg Ala Ile
65      70      75      80
Leu Pro Gly Asp Thr Pro Ala Trp Asn Lys Thr Trp Gly Lys Arg Gly
      85      90      95
Gly Pro Gly Ala Pro Gly Gly Lys Gly Gly Glu Thr Thr Gly Asn Lys
      100      105      110
Pro Phe Gly
      115

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<210> 31762

<211> 484

<212> PRT

<213> A.fumigatus

<400> 31762

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Thr Met Ala Tyr Leu Gln Ala Gly Val Asn Thr Ser Arg Gly Glu Gly
1      5      10      15
Gly Lys Thr Gly Arg Asp Ala Asn Ala Val Ala Leu Glu Gln Gln Ala
      20      25      30
Asp Val Asp Glu Asp Thr Leu Lys Glu Ile Tyr Gly Glu Lys Lys Glu
      35      40      45
His Val Asn Ile Val Phe Ile Gly His Val Asp Ala Gly Lys Ser Thr
      50      55      60
Leu Gly Gly Ser Ile Leu Tyr Val Thr Gly Asn Val Asp Glu Arg Thr
65      70      75      80
Leu Glu Lys Tyr Lys Arg Glu Ala Lys Glu Ala Gly Arg Glu Thr Trp
      85      90      95
Tyr Leu Ser Trp Ala Leu Asp Leu Thr Asn Glu Glu Arg Ala Lys Gly
      100      105      110
Lys Thr Val Glu Val Gly Arg Gly His Phe Lys Leu Thr Val Gln Ser
      115      120      125
Pro Asp Gly Pro Ile Glu Arg His Phe Ser Ile Leu Asp Ala Pro Gly
      130      135      140
His Lys Ser Tyr Val His His Met Ile Gly Gly Ala Ser Gln Ala Asp
145      150      155      160
Val Gly Val Leu Val Ile Ser Ala Arg Arg Gly Glu Tyr Glu Thr Gly
      165      170      175
Phe Glu Lys Gly Gly Gln Thr Arg Glu His Ala Leu Leu Ala Arg Asn
      180      185      190
Thr Gly Val Lys Lys Leu Ile Val Ala Val Asn Lys Met Asp Asp Pro
      195      200      205
Thr Val Glu Trp Ser Lys Ala Arg Phe Asp Glu Cys Thr Val Lys Val
      210      215      220
Ser Lys Phe Leu Glu Ala Leu Gly Tyr Lys Lys Asp Asp Leu Thr Phe
225      230      235      240

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12319

Met Pro Ile Ser Ala Gln Gln Thr Thr Gly Ile Lys Asp Arg Val Pro
 245 250 255
 Lys Glu Leu Ala Pro Trp Tyr Asn Gly Pro Ser Leu Leu Glu Tyr Leu
 260 265 270
 Ala Glu Met Lys Thr Pro Glu Arg Asn Ile Asn Ala Pro Phe Met Met
 275 280 285
 Pro Val Ser Thr Lys Tyr Arg Asp Met Gly Thr Met Val Glu Gly Arg
 290 295 300
 Ile Glu Ala Gly Val Ile Lys Lys Asn Ala Thr Cys Ile Met Met Pro
 305 310 315 320
 Asn Arg Thr Lys Val Glu Ile Ala Ala Leu Tyr Gly Glu Thr Glu Asp
 325 330 335
 Glu Ile Ala Thr Ala Thr Cys Gly Asp Gln Val Arg Met Arg Leu Arg
 340 345 350
 Gly Val Glu Glu Asp Leu Leu Pro Gly Phe Val Leu Cys Ser Pro
 355 360 365
 Lys Arg Leu Val His Cys Val Ser Ala Phe Glu Ala Lys Ile Arg Ile
 370 375 380
 Leu Glu Leu Lys Asn Ile Leu Thr Ala Gly Tyr Asn Cys Val Met His
 385 390 395 400
 Val His Ser Ala Val Glu Glu Val Thr Phe Ala Ala Leu Leu His Lys
 405 410 415
 Cys Glu Pro Gly Thr Gly Arg Arg Ser Lys Arg Pro Pro Pro Phe Ala
 420 425 430
 Ser Lys Gly Gln Thr Ile Ile Ala Arg Leu Glu Val Ile Ser Ser Ala
 435 440 445
 Gly Ala Val Cys Val Glu Arg Phe Glu Asp Tyr Asn Gln Met Gly Arg
 450 455 460
 Phe Thr Leu Arg Asp Gln Val Ser Asp Val Leu Ser Val Pro Tyr Leu
 465 470 475 480
 Gly Ser His His

<210> 31763

<211> 184

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (4)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31763

Thr Thr Ala Xaa Ser Tyr Leu Asp Val Gly Ile Thr Leu Thr Ile Asn
 1 5 10 15
 Asn Trp Pro Ala Leu Thr Met Ala Val Gln Ser Asn Trp Gly Gly Pro
 20 25 30
 Thr Ser Ala Asp Lys Arg Asp Trp Leu Cys Gly Ala Ile Ser Asp Met
 35 40 45
 Ile Asn Glu Arg Pro Glu Thr Asp Ala Leu Asp Leu Glu Asp Val Leu
 50 55 60
 Ile Gln Val Met Asn Asp Glu Phe Asp Val Val Val Asp Asp Asp Ser
 65 70 75 80
 Ala Ala Pro Val Ala Ala Gln Ile Met Ala Ile Arg Glu Gln Thr Ala
 85 90 95

12320

Arg Gly Glu Phe Gly Phe Val Gln Glu Leu Trp Glu Ala Trp Gln Arg
 100 105 110
 Lys Ala Gln Gln Lys Gly Asn Asn Val Ala Ala Ala Phe Lys Gln Val
 115 120 125
 Lys Ala Leu Asp Asp Glu Asp Thr Asp Glu Glu Asp Glu Val Glu Glu
 130 135 140
 Asp Glu Asp Glu Asp Val Asp Met Asp Glu Ala Pro Ala Ile Val Arg
 145 150 155 160
 Ala Pro Arg Glu Arg Val Glu Leu Glu Val Asp Glu Asp Gly Phe Thr
 165 170 175
 Lys Val Val Gly Lys Lys Arg Arg
 180

<210> 31764

<211> 271

<212> PRT

<213> A.fumigatus

<400> 31764

Ser Leu Gly Arg Ala Glu His Glu Ser Arg Glu Glu Val Phe Phe Phe
 1 5 10 15
 Tyr Ala Ser Glu Thr His Thr Asp Leu Ile Thr Thr Gly Cys Ser Gly
 20 25 30
 Asn Phe Val Phe Ser Leu Thr Val Glu Ser Ser Asn Phe Asp Leu Gly
 35 40 45
 Ala Ile Arg His His Asp Ala Gly Gly Val Leu Leu Asp Asn Thr Ser
 50 55 60
 Phe Asp Thr Thr Leu Asn His Arg Ser His Ile Thr Val Leu Arg Ala
 65 70 75 80
 His Gly His His Glu Gly Gly Ile Asn Val Thr Phe Gly Ser Leu His
 85 90 95
 Phe Ser Lys Ile Leu Gln Glu Arg Arg Ser Ile Val Pro Trp Cys Lys
 100 105 110
 Phe Leu Gly Asp Thr Ile Leu Asn Thr Arg Ser Leu Leu Gly Gly Tyr
 115 120 125
 Gly His Glu Gly Lys Ile Val Leu Leu Val Ala Glu Ser Leu Gln Glu
 130 135 140
 Leu Gly Asp Leu Asn Cys Thr Leu Ile Glu Thr Ser Leu Ala Pro Phe
 145 150 155 160
 Asp Ser Arg Val Val His Leu Val Asn Gly Asn Asn Glu Leu Phe Asp
 165 170 175
 Thr Ser Val Pro Gly Gln Gln Ser Val Leu Ala Ser Leu Ala Thr Leu
 180 185 190
 Leu Glu Thr Ser Leu Val Phe Thr Pro Thr Ser Arg Asp Asp Lys His
 195 200 205
 Thr Asp Ile Gly Leu Arg Gly Ala Thr Asn His Val Val Asp Val Gly
 210 215 220
 Phe Val Thr Arg Ser Ile Glu Asp Gly Glu Val Ser Leu Asn Gly Thr
 225 230 235 240
 Ile Gly Arg Leu His Gly Glu Leu Glu Val Ala Thr Ala Asp Leu Asp
 245 250 255
 Ser Leu Ser Leu Ser Ser Phe Phe Val Gly Gln Ile Glu Ser Pro
 260 265 270

<210> 31765

<211> 475

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (10)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31765

Ile	Ile	Val	Ser	Leu	Asp	Pro	Leu	Asp	Xaa	Gly	Glu	Pro	Ala	Gly	His
1				5					10					15	
Ser	Lys	Arg	Ala	Leu	Leu	Glu	Ser	Val	Ala	Ala	Gly	Leu	Asp	Val	Ala
			20					25					30		
Ile	Tyr	Thr	Met	Asp	Gln	Val	Glu	Glu	Leu	Gly	Thr	Ala	Ser	Asn	Arg
		35					40					45			
Pro	Cys	Val	Pro	Pro	Ser	Pro	Ser	Asp	Ile	Val	Thr	Ile	Asn	Tyr	Thr
	50					55					60				
Ser	Gly	Thr	Thr	Gly	Pro	Pro	Lys	Gly	Val	Val	Leu	Thr	His	Glu	Asn
65					70				75					80	
Ala	Val	Ala	Ala	Ala	Ser	Ser	Ala	Leu	Val	Asn	Ile	Arg	Gln	Ala	Pro
				85					90					95	
Gly	Asp	Thr	Ser	Leu	Ser	Tyr	Leu	Pro	Leu	Ala	His	Ile	Tyr	Ala	Arg
			100					105					110		
Leu	Ala	Glu	His	Thr	Ala	Phe	Trp	Ala	Gly	Ala	Arg	Ile	Gly	Tyr	Phe
		115					120					125			
His	Gly	Asn	Ile	Val	Glu	Leu	Val	Asp	Asp	Ile	Lys	Ala	Leu	Lys	Pro
		130					135				140				
Thr	Ala	Phe	Phe	Ser	Val	Pro	Arg	Leu	Tyr	Ser	Arg	Phe	Gly	Asn	Val
145					150					155					160
Ile	Arg	Gly	Ala	Thr	Val	Glu	Gln	Pro	Gly	Phe	Lys	Gly	Ala	Leu	Ser
				165					170					175	
Arg	His	Ile	Val	Ala	Ala	Lys	Thr	Ala	Asn	Leu	Lys	Asn	Pro	Asp	Pro
		180						185					190		
Ser	Lys	Ala	Thr	Val	Lys	His	Ala	Leu	Tyr	Asp	Arg	Ile	Trp	Ala	Lys
	195						200					205			
Lys	Val	Ser	Ala	Ala	Ile	Gly	Leu	Glu	Arg	Cys	Arg	Phe	Met	Val	Ser
	210					215					220				
Gly	Ser	Ala	Pro	Leu	Asp	Pro	Ser	Leu	His	Asn	Phe	Leu	Arg	Val	Ala
225					230					235				240	
Phe	Gly	Val	Asp	Phe	Ile	Gln	Gly	Tyr	Gly	Leu	Thr	Glu	Thr	Tyr	Ala
			245						250					255	
Ile	Ala	Ser	Ser	Gln	Ser	Ala	Lys	Asp	Leu	Thr	Ala	Gly	Asn	Cys	Gly
		260						265					270		
Arg	Ile	Ala	Pro	Ser	Thr	Glu	Ala	Cys	Leu	Met	Ser	Leu	Pro	Asp	Met
	275						280					285			
Asp	Tyr	Ser	Val	Asp	Asp	Lys	Pro	Phe	Pro	Arg	Gly	Glu	Leu	Leu	Leu
	290					295					300				
Arg	Gly	Thr	Asn	Ile	Phe	Arg	Glu	Tyr	Phe	Lys	Asn	Pro	Glu	Glu	Thr
305					310					315				320	
Ser	Lys	Ala	Met	Thr	Glu	Asp	Gly	Trp	Phe	Arg	Thr	Gly	Asp	Val	Cys
			325						330					335	
Thr	Ile	Asp	Glu	Met	Gly	Arg	Phe	Ile	Ile	Ile	Asp	Arg	Arg	Lys	Asn
		340					345					350			
Val	Leu	Lys	Leu	Ala	Gln	Gly	Glu	Tyr	Ile	Ser	Pro	Glu	Arg	Leu	Glu
	355						360					365			
Gly	Val	Tyr	Leu	Ser	Glu	Leu	Ser	Tyr	Phe	Ala	Gln	Gly	Tyr	Val	His

370		375		380
Gly Asp Ser Val Gln Thr Phe Leu Val Gly Ile Phe Gly Val Gln Pro				
385		390		400
Asp Thr Phe Ala Pro Phe Ala Ser Lys Val Leu Gly Arg Thr Ile Asp				
	405		410	415
Ala Thr Asp Ile Glu Gly Leu Lys Ser Val Leu Gly Asp Asp Lys Val				
	420		425	430
Arg Lys Ala Val Leu Arg Asp Leu Glu Lys Ile Ala Lys Lys His Lys				
	435		440	445
Leu Ala Gly Tyr Glu Arg Val Lys Asn Cys Ala Leu Leu Ile Glu Pro				
	450		455	460
Phe Ser Val Glu Asn Asn Leu Leu Thr Pro Thr				
465		470		475

<210> 31766
 <211> 85
 <212> PRT
 <213> A.fumigatus

<400> 31766

Arg Arg Thr Leu Pro Gln Ser Leu Ala Phe Phe Phe Phe Phe Phe	
1	5 10 15
Phe Trp Asn Val Ser Ala His Leu Arg Ser Ile Cys Arg Leu Cys Asp	
	20 25 30
Leu Thr Trp Tyr Val Ala Cys Ile Ile Ser Thr Leu Gly Lys Asn Trp	
	35 40 45
Thr Cys Trp Leu Leu Asp Lys Cys Glu Ile Ile Gln Asn Phe Val Phe	
	50 55 60
Val Ser Asn Ala Pro Tyr Cys Ile Thr Cys Lys Met Met Glu Ile Pro	
65	70 75 80
Val His Ser Ala Glu	
	85

<210> 31767
 <211> 526
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (34)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31767

Pro Pro Ala Asp Thr Ala Ser Thr Trp Gly Arg Arg Arg Ser Ser Cys	
1	5 10 15
Pro Arg Asp Arg Thr Pro Ile Arg Ile Val Tyr Ala Arg Phe Ser Ala	
	20 25 30
Asn Xaa Arg Asp Lys Val Asp Lys Thr Leu Leu Phe Tyr Gly His Tyr	
	35 40 45
Asp Val Val Ser Ala Asp Ala Asn Arg Thr Lys Trp Asn Thr Asp Pro	
	50 55 60
Tyr Gln Leu Ala Ser Ile Asp Gly Phe Leu Tyr Gly Arg Gly Val Ser	
65	70 75 80
Thr Thr Lys Gly Pro Ile Leu Ala Ala Leu Tyr Ala Ala Ala Asp Leu	
	85 90 95

Ala Arg Gln Lys Ala Leu Pro Cys Asp Val Val Phe Leu Ile Glu Gly
 100 105 110
 Glu Glu Glu Ser Gly Ser Gln Gly Phe His Glu Thr Val Arg Gln His
 115 120 125
 Lys Pro Glu Ile Gly Ser Val Asp Trp Ile Leu Leu Ala Asn Ser Tyr
 130 135 140
 Trp Leu Asp Asp Tyr Asn Pro Cys Leu Thr Tyr Gly Leu Arg Gly Val
 145 150 155 160
 Val His Ala Asn Leu Ile Val Thr Ser Asp His Pro Asp Leu His Ser
 165 170 175
 Gly Ile Asp Gly Ser Ala Leu Leu Asp Glu Pro Leu Lys Asp Leu Ser
 180 185 190
 Met Leu Leu Ala Ser Leu Val Gly Pro Lys Gly Arg Ile Asn Ile Pro
 195 200 205
 Gly Phe His Asp Leu Val Leu Pro Leu Thr Glu Ala Glu Lys Gln Arg
 210 215 220
 Phe Ala Asp Val Ala Arg Ile Leu Leu Pro Gln His Pro Glu Ile Thr
 225 230 235 240
 Asp Arg Asp Ala Leu Ile Asn Ser Leu Met His Arg Trp Arg Glu Pro
 245 250 255
 Ser Leu Thr Ile His Ser Val Glu Val Pro Gly Ser Ser Lys Ala Ala
 260 265 270
 Thr Thr Thr Ile Ser Arg Lys Ala Lys Ala Ser Leu Ser Ile Arg Val
 275 280 285
 Val Pro Asn Gln Glu Ala Asp Glu Val Ala Ala Asn Leu Thr Met Tyr
 290 295 300
 Ala Gln Glu Gln Phe Asp Lys Leu Glu Ser Gln Asn Asp Leu Thr Val
 305 310 315 320
 Glu Ile Thr Gly Lys Ser Asp Pro Trp Leu Gly Asp Pro Asp Asn Glu
 325 330 335
 Ile Phe Ala Thr Leu Ser Glu Ala Ile Thr Ala Ala Trp Ser Arg Asp
 340 345 350
 Gln Thr Ser Gln Lys His Gln Tyr Pro Pro Leu Gln Arg Phe Pro Lys
 355 360 365
 Gly Lys Asp Thr Pro Gly Leu Ala Arg Thr Asp Ser Ser Asp Ser Leu
 370 375 380
 Ala Ser His Ile Asp Arg Ile Ile Met Ser Thr Thr Thr Ser Ser Ala
 385 390 395 400
 Ser Lys Ser Lys Ala Arg Gln Arg Ser Ala Leu Ser Ser Thr Val Pro
 405 410 415
 Thr Ser Ser Thr Leu Thr Ser Lys Ser Gly Val Ile Val Ser Pro Asp
 420 425 430
 Ala Ser Gly Asp Ser Ser Asp Glu Lys Pro Ala Ala Pro Ala Gln Glu
 435 440 445
 Pro Val Ala Thr Arg Ser Thr Val Gln Pro Ile Phe Ile Arg Glu Gly
 450 455 460
 Gly Ser Ile Pro Thr Ile Arg Phe Leu Glu Lys Glu Phe Ser Ala Pro
 465 470 475 480
 Ala Ala Asn Leu Pro Cys Gly Gln Ala Ser Asp Asn Ala His Leu Tyr
 485 490 495
 Asn Glu Arg Leu Arg Val Glu Asn Leu Tyr Lys Ser Arg Glu Ile Phe
 500 505 510
 Gln Tyr Val Phe Ser Arg Leu Pro Arg Arg His Arg Pro Ser
 515 520 525

<211> 133
 <212> PRT
 <213> A.fumigatus

<400> 31768
 Leu Leu Ile Phe His Thr Arg Pro Asp Gln Asn Asp Glu Ser Leu Asn
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 Arg Trp Lys Ala Ser Leu Gly Leu Asn Thr Gly Lys Pro Ile Gly Asp
 20 25 30
 Pro Asn Asp Pro Arg Lys Cys Ile Ile Arg Ser Leu Ser Leu Glu Val
 35 40 45
 Glu Gly Arg Pro Asp Val Val Ile Glu Leu Ser Ala Pro Gly Ala Leu
 50 55 60
 Glu Ala Leu Lys Asp Lys Pro Phe Thr Ile Lys Glu Gly Ala Thr Phe
 65 70 75 80
 Arg Ile Lys Cys Lys Phe Glu Val His His Glu Val Leu Ser Gly Leu
 85 90 95
 Lys Tyr Leu Gln Val Val Lys Arg Lys Gly Ile Arg Val Ser Lys Asp
 100 105 110
 Tyr Glu Met Leu Val Ser Ile Ile Asp Ser Gly Ser Val Thr Cys Cys
 115 120 125
 Val Arg Arg Leu Thr
 130

<210> 31769
 <211> 137
 <212> PRT
 <213> A.fumigatus

<400> 31769
 Val Leu Arg Ile Leu Leu Gly Ser Phe Ser Cys Ile Leu Leu Asp Leu
 1 5 10 15
 Tyr Leu Phe Ser Pro Thr Ser Val Arg Tyr Thr Leu His Ile Tyr Ile
 20 25 30
 Tyr Ile Asp Thr Leu Pro Leu Leu Ser Leu Pro Pro Ser Leu Val Pro
 35 40 45
 Pro Ser Leu Val Gln Val Pro Arg Gln Lys Arg Ser Arg Gln Gln Thr
 50 55 60
 Thr Ala Thr Leu Thr Met Thr Glu His Asp Asp Asp Leu Val Ala Ser
 65 70 75 80
 Lys Thr Glu Gly Phe Lys Val Gly Glu Lys Lys Thr Ile Glu Glu Tyr
 85 90 95
 Thr Lys Leu Gly Met Ser Arg Leu Leu Arg Leu Pro Tyr Ala Ser His
 100 105 110
 Ala Gly Asn Ser Ser Leu His Ser Gly Leu Pro Val Ser Pro Leu Pro
 115 120 125
 Gln Ala Arg Leu Leu Gln Ala Asp Tyr
 130 135

<210> 31770
 <211> 69
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE

<222> (60)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31770

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Ser His Leu Asp Pro Pro Ser Gln Trp His Lys Thr Trp Phe Gln Arg
1          5          10          15
Leu Tyr Thr Leu Leu Gly Ser Ser His Lys Ser Thr Cys Leu Ser Leu
          20          25          30
Ser Asp Asp Tyr Asp Leu Arg Leu Asp Ser Arg Pro His Pro His Arg
          35          40          45
Pro Ser His Asp Leu Glu Ala Ile Gly Ile Phe Xaa Tyr Ala Pro His
          50          55          60
Gln Thr Val Ser Asp
65

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<210> 31771

<211> 210

<212> PRT

<213> A.fumigatus

<400> 31771

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Asp Leu Ser His Leu Val Pro Gln His Arg Leu Glu Asp Asp Lys Val
1          5          10          15
Arg Lys Gln Leu Val Asn Asn Ser Ala Met Ser Gly Asn Gly Ser Ser
          20          25          30
Ser Asn Ala Ala Thr Ser Leu Leu Ala Gly Gly Asn Gly Arg Arg Ala
          35          40          45
Thr Ala Gly Asn Ile Thr Met Gly Leu Pro Ile Glu Glu Lys Glu Lys
          50          55          60
Gly Pro Asn Lys Gly Asp Ile Leu Asn Gly Ala Val Gly Trp Met Arg
65          70          75          80
Asp Leu Met Trp Ala Leu His Val Lys Leu Gln Gln Glu Ser Glu Leu
          85          90          95
Ala Glu Leu Ile Thr Ser Leu Gly Gly Thr Trp Pro Phe Glu Gln Thr
          100          105          110
Glu Glu Glu Lys Arg Met Arg Ser Glu Ile Leu Asp Ala Leu Glu Lys
          115          120          125
Asn Asp Pro Ser Thr Phe Thr Tyr Ser Arg Gly Pro Gly Ser Gly Leu
          130          135          140
Arg Val Pro Lys His Thr Asn Leu Ala Gly Glu Pro Ile Ser Gln Asn
          145          150          155          160
Gly Ala Leu Ser Pro Gln Ser Leu Ser Pro Ser Tyr Asn Ser Gly Gly
          165          170          175
Ser Ser Asn Gly Gly Asn Ser Gly Gln Ala Gln Tyr Trp Asn Ser Ser
          180          185          190
Gly His Ala Gly Met Ser Phe Lys Glu Glu Asp Glu Tyr Ala Met Glu
          195          200          205
Met Gln
          210

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<210> 31772

<211> 165

<212> PRT

<213> A.fumigatus

<400> 31772

Ala Gly Gln Asp Pro Ser Ala Gly Ser Arg Phe Arg Arg Gln Val Gln
 1 5 10 15
 Arg Tyr Ala Gly Arg Cys Ala Gln Asp His Arg His Gly Gly Ser Ser
 20 25 30
 Cys His Val Gln Arg Pro Arg Val Asp Ala Val Ala Ser His Pro Leu
 35 40 45
 Glu Arg Arg Leu Leu Arg Leu His Leu Pro Ser Pro Arg Ala Ala Pro
 50 55 60
 Arg Cys Arg Thr Arg Gln Gln Val Pro Ala Asp Pro Gln Arg Pro Asp
 65 70 75 80
 Arg Gly Tyr His Arg Trp Tyr Arg Gly Tyr Arg Pro Gln His Pro His
 85 90 95
 Gly Arg Arg Gln Val Ala His Pro Lys Leu Pro Gln Gly Arg Ser
 100 105 110
 Gly Ala Gln Val Gln Leu Gly Leu Ala Cys Arg Trp His Arg His Glu
 115 120 125
 Gly Arg Arg Leu Arg Arg Pro Leu Gln Gly Phe His Pro Gln Gly Ala
 130 135 140
 Pro Ser Arg Ser Arg Trp Trp Tyr Ser Ala Arg Cys Phe His Gly Cys
 145 150 155 160
 His Gly Leu Phe Pro
 165

<210> 31773

<211> 247

<212> PRT

<213> A.fumigatus

<400> 31773

Met Ser Glu Ala Asn Arg Gly Thr Leu Ser Arg Phe Ser Arg Leu Tyr
 1 5 10 15
 Arg Gly Ile Ser Ala Pro Ile Leu Met Glu Ala Pro Lys Arg Ala Thr
 20 25 30
 Lys Phe Ala Ala Asn Asp Ser Trp Gly Ser Phe Tyr Arg Gly Leu Phe
 35 40 45
 Gly Ala Gln Lys Gln Thr Gln Ser Leu Ala Val Leu Thr Gly Ala Thr
 50 55 60
 Ala Gly Ala Thr Glu Ala Phe Val Val Val Pro Phe Glu Leu Val Lys
 65 70 75 80
 Ile Arg Leu Gln Asp Arg Ala Ser Ala Gly Lys Tyr Asn Gly Met Leu
 85 90 95
 Asp Val Val Arg Lys Ile Ile Ala Thr Glu Gly Pro Leu Ala Met Tyr
 100 105 110
 Asn Gly Leu Glu Ser Thr Leu Trp Arg His Ile Leu Trp Asn Gly Gly
 115 120 125
 Tyr Phe Gly Cys Ile Phe Gln Val Arg Ala Gln Leu Pro Ala Ala Glu
 130 135 140
 Pro Gly Asn Lys Ser Gln Gln Thr Arg Asn Asp Leu Ile Ala Gly Thr
 145 150 155 160
 Ile Gly Gly Ile Ala Gly Thr Val Leu Asn Thr Pro Met Asp Val Val
 165 170 175
 Lys Ser Arg Ile Gln Asn Ser Pro Lys Val Ala Gly Gln Val Pro Lys
 180 185 190
 Tyr Asn Trp Ala Trp Pro Ala Val Gly Thr Val Met Lys Glu Glu Gly
 195 200 205
 Phe Gly Ala Leu Tyr Lys Gly Phe Ile Pro Lys Val Leu Arg Leu Gly

210	215	220
Pro Gly Gly Gly Ile Leu Leu Val Val Phe Thr Gly Val Met Asp Phe		
225	230	235
Phe Arg Lys Ile Arg Gly Glu		240
245		

<210> 31774
 <211> 334
 <212> PRT
 <213> A.fumigatus

<400> 31774

Val Leu Ile Ser Leu Ala Leu Asn Ile Gln Arg Tyr Ala His Ile Arg	
1 5 10 15	
Ile Glu Arg Glu Trp Glu Gln Ser Lys Leu Gln Arg Glu Ile Gln Trp	
20 25 30	
Lys Arg Ala Asn Ser Gly Arg Asn Ala Ala Gly Ala Tyr Gly Thr Thr	
35 40 45	
Val Ala Glu Glu Asp Asp Arg Glu Phe Arg Arg Gly Gly Arg Leu Phe	
50 55 60	
Pro Arg Tyr Arg Asp Glu Ser Pro Asp Ser Gly Pro Glu Leu Pro Glu	
65 70 75 80	
Asp Phe Leu Arg Arg Ser Asp Glu Phe Ser Asp Gly Glu Ser Gly Pro	
85 90 95	
Arg Gly Arg Leu Arg Glu Ser Phe Leu Ser Asp Gln Thr Ile Arg Ala	
100 105 110	
Gly Asp Lys Asp Ser Arg His Gly Arg Arg Lys Ser Tyr Leu Arg Ser	
115 120 125	
Pro Tyr Trp Trp Ala Gly Leu Val Leu Met Cys Leu Gly Glu Ile Gly	
130 135 140	
Asn Phe Met Ala Tyr Gly Phe Ala Pro Ala Ser Ile Val Ser Pro Leu	
145 150 155 160	
Gly Val Val Ala Leu Ile Ser Asn Cys Val Ile Ala Pro Ile Met Leu	
165 170 175	
Lys Glu Lys Phe Arg Gln Arg Asp Ala Trp Gly Val Leu Ile Ala Ile	
180 185 190	
Ala Gly Ala Val Val Val Val Leu Ser Ala Ser Ser Ser Glu Glu Lys	
195 200 205	
Ile Gly Pro His Asp Ile Trp Val Met Ile Thr Arg Trp Glu Phe Glu	
210 215 220	
Leu Tyr Leu Gly Leu Thr Ala Cys Leu Ile Ile Ala Leu Met Trp Val	
225 230 235 240	
Ser His Lys Tyr Gly Ser Arg Thr Ile Leu Ile Asp Val Gly Leu Val	
245 250 255	
Ala Leu Phe Gly Lys Ser Gln Ser Leu Leu Met Arg Leu Val Asp Arg	
260 265 270	
Val Ile Gln Val Leu Ile Gln Ile Ser Arg Trp Ile Tyr Arg Ile Val	
275 280 285	
Asp Gln Arg Cys Leu Val Thr Ala Val Ile Tyr Ala Met Ala Cys Tyr	
290 295 300	
Tyr Leu Ser Gly His Leu Ser Thr Gly Val Cys Pro Cys Phe Gln Arg	
305 310 315 320	
Ser Asp Ala Asn Pro Val His Gln Pro Gly Phe Ala Thr Phe	
325 330	

<210> 31775

<211> 422

<212> PRT

<213> A.fumigatus

<400> 31775

Ser Lys Cys Ser Phe Arg Tyr Gln Gly Gly Tyr Thr Ala Leu Ser Thr
 1 5 10 15
 Lys Gly Val Ser Ser Leu Leu Ser Phe Thr Leu Trp His Val Ile Thr
 20 25 30
 Phe Pro Val Thr Tyr Leu Leu Val Phe Val Leu Val Phe Ser Ala Leu
 35 40 45
 Met Gln Ile Arg Tyr Ile Asn Arg Ala Leu Gln Arg Phe Asp Ser Thr
 50 55 60
 Gln Val Ile Pro Thr Gln Phe Val Leu Phe Thr Leu Ser Val Ile Val
 65 70 75 80
 Gly Ser Ala Val Leu Tyr Arg Asp Phe Glu Asn Tyr Thr Val Glu Arg
 85 90 95
 Ala Ser Lys Phe Val Ser Gly Cys Leu Met Thr Phe Leu Gly Val Tyr
 100 105 110
 Phe Ile Thr Ser Gly Arg Leu Arg Ala Asp Asp Glu Ser Ser Phe Ser
 115 120 125
 Ile Asp Asp Glu Glu Glu Ala Ile Gly Leu Leu Gly Gly Glu Gln Tyr
 130 135 140
 Gln Asp Asn Phe Asp Ile Ala Arg Pro Ala His Gln Pro Arg Thr Ala
 145 150 155 160
 Lys Arg Gly Gln Arg Gln Ser Ile Pro Asp Glu Asn Asp Leu Gln Ser
 165 170 175
 Pro Leu Gly Ser Phe Leu Gly Ser Gly Ile Glu Asp Val Asp Glu Asp
 180 185 190
 Gln Leu Thr Pro Lys Gly Ala Leu Ser Ala Ala Pro Ser Ser Pro Val
 195 200 205
 Gly Ser Ile Thr Ala Glu Ser Pro Thr Gln Pro Ser Pro Gly His Pro
 210 215 220
 Ser Leu His Ser His Ser His Ser Leu Leu Thr Asn Pro Trp Ala Asp
 225 230 235 240
 His Leu Glu Gln His Val Gln Ala Ser Asn Ser Glu Pro Gln Leu His
 245 250 255
 Arg Pro Ala Thr Pro Pro Glu Gln Ser Glu Thr Gly Asn Ala Asp Ser
 260 265 270
 Ala Val Leu Leu Gln Phe Pro Pro Ala Pro Gly Ile Glu Asp Arg Gly
 275 280 285
 Tyr Arg Pro Ser Ser Pro Ser Lys Pro Asp His Val Glu Pro Ala Asp
 290 295 300
 Arg Ala Ser Thr Val Pro Gln Thr Pro Pro Ala Arg Asn Leu Arg Asn
 305 310 315 320
 Ser Ile Ser Lys His Phe Ser Pro Gly Pro Leu Leu Pro Thr Leu Ser
 325 330 335
 Ala Gly Phe Ser Ala Val Val Ala Glu Ser Leu Arg Arg Gly Glu Thr
 340 345 350
 Ser Pro Val Lys Asp Arg Lys Ser His Lys Arg Ser Ala Arg Arg Lys
 355 360 365
 Gln Leu Ser Thr Thr Val Phe Asp Gly Tyr Thr Arg Asn Arg Asp Arg
 370 375 380
 Gly Pro Ser Asp Glu Val Asp Ala Gly Val Asp Gln His Leu Pro Leu
 385 390 395 400
 Gln Leu Ala Thr Ala Arg Leu Arg Ser Val Phe Thr Thr Gly Ala Glu

12329

405
Gly Ser Ala Leu Cys Val
420

410

415

<210> 31776
<211> 63
<212> PRT
<213> A.fumigatus

<400> 31776
Lys Asn Ser Asp Gln Phe Gln His Leu Cys Lys Leu Pro Leu Trp Ser
1 5 10 15
Asp Lys Leu Gln Leu Ser Arg Asp Cys Ile Glu Phe Ala Ile Val Ile
20 25 30
Asp Ser Pro Tyr Met Glu Lys Gly Gly Trp Cys Leu Lys Lys Leu
35 40 45
Met Lys Ala Ala Glu Thr Phe Pro Leu Glu Ala Ala Asn Cys Arg
50 55 60

<210> 31777
<211> 435
<212> PRT
<213> A.fumigatus

<400> 31777
Ala Tyr Ser Pro Pro Pro Ser Cys Phe Pro Thr Val Leu Phe Glu Ile
1 5 10 15
Leu Ala Trp Leu Phe Phe Phe Cys Leu Val Tyr Ala Asn Asp Ala Phe
20 25 30
Ser Ile Lys Ser Ser Gln Pro Asp Arg Gln Ile Ser Gln Ile Glu Lys
35 40 45
Ser Val Thr His Leu Leu Val Ala Thr Lys Gln Leu Leu Glu Thr Leu
50 55 60
Thr Gln Trp Ser Arg Arg Gln Ala Ser Glu Asn Glu Val Ser Asp Val
65 70 75 80
Tyr Val Arg Leu Gly Tyr Glu Phe Asn Leu Ala Cys Arg Ala Phe Asn
85 90 95
Ala Ile Gly Val Asp Thr Ser Asp Leu Gly Pro Val Pro Asp Leu Leu
100 105 110
Arg Thr Ile Leu Glu Asp Thr Leu Ser Gln Asp Ala Ser Pro Gln Ser
115 120 125
Leu Asp Arg Tyr Leu Pro Arg Ile Arg Asp Ile Ile Ile Asn Leu Leu
130 135 140
His Gly Leu Lys Lys Lys Gln Ala Arg Leu Arg Ser Arg Gln Gln Arg
145 150 155 160
Glu Glu Ser Arg Pro Leu Pro Gly Arg Gln Ala Ser Ser Gly Ser Ala
165 170 175
Val Thr Asn Gln Met Tyr Glu Glu Ala Thr Ala Ser Ser Pro Lys Arg
180 185 190
Pro Gly Ser Arg Arg His Gly Ser Asn Gly Ser Leu Glu Asp Gln Ser
195 200 205
Ser Gly Ala His Ser Gly Ser Thr Val Gln Thr Ser Asn Asp Thr Arg
210 215 220
Gly Thr Ser Tyr Ser Glu Arg Glu Ala Ser Arg Arg Glu Ala Gln Gln
225 230 235 240
Ile Leu Ser Gln Pro Ser Gln Pro Glu Thr Ala Ile Ser Asn Val Ala

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<210> 31778
<211> 77
<212> PRT
<213> A.fumigatus
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Gly	Asp	Val	Asn	Lys	Leu	Gly	Leu	Ser	Ser	Val	Glu	Gly	Leu	Gly	Trp
1				5					10					15	
Asn	Cys	Met	Asp	Ala	Asn	Ser	Leu	Val	Phe	Ser	Phe	Thr	Ala	Ala	Arg
			20					25					30		
Ile	Lys	Arg	Asn	Arg	Ala	Thr	Gln	Gln	Ile	Lys	Phe	Lys	Val	Arg	Cys
		35					40					45			
His	Arg	Phe	Ile	Tyr	Thr	Leu	Val	Leu	Lys	Asp	Ser	Asp	Lys	Ala	Asp
	50					55				60					
Lys	Leu	Lys	Gln	Ser	Leu	Pro	Pro	Gly	Ala	Leu	Pro	Thr			
65					70					75					

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<211> 62
<212> PRT
<213> A.fumigatus
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<223> Identity of amino acid sequences at the above locations are unknown.

Ile Leu Asp Cys Arg Arg Asp Ala Glu Met Ala Ser Gln Cys Thr Phe
1 5 10 15

12331

Arg Ser Ser His Gln Gly Phe Pro Gln Leu Thr Gly Gly Asp Leu Gln
 20 25 30
 Arg Ala Leu Leu Pro Thr Glu Gln Ala Thr Arg Asp Asp Xaa Leu Glu
 35 40 45
 Arg Val Arg Ala Asp Leu Arg Val Pro Pro Arg Ser Thr Thr
 50 55 60

<210> 31780
 <211> 390
 <212> PRT
 <213> A.fumigatus

<400> 31780
 Gly Tyr Leu Gln Ala Trp Leu Glu Gly Gln Gly Thr Phe Ala Ser Leu
 1 5 10 15
 Ile Leu Ile Ser Thr Ser His Ser Val Leu Lys Cys Arg Cys His Arg
 20 25 30
 Ser Ser His Thr Ser Asp Val Thr Trp Thr Thr Pro Glu Leu Leu Ser
 35 40 45
 Arg Leu Val Leu Thr Glu Cys Lys Trp Pro Tyr Gln Arg Trp Gln Ser
 50 55 60
 Arg Leu Asp Ser Asp Phe Leu Tyr Ser Asp Val Val Ile Gly Thr Ser
 65 70 75 80
 Ser Tyr Leu Arg Glu His Ser His Gly Lys Asp Met Thr Tyr Ile Lys
 85 90 95
 Asn Thr Ala Ile Glu Val Ile Glu Phe Val Lys Ser Lys Gly Ile Glu
 100 105 110
 Ile Arg Phe Ser Ser Glu Asp Ser Phe Arg Ser Asp Leu Val Asp Leu
 115 120 125
 Leu Ser Ile Tyr Ser Ala Val Asp Lys Val Gly Val Asn Arg Val Gly
 130 135 140
 Ile Ala Asp Thr Val Gly Cys Ala Ser Pro Arg Gln Val Tyr Glu Leu
 145 150 155 160
 Val Arg Val Leu Arg Gly Val Val Ser Cys Asp Ile Glu Thr His Phe
 165 170 175
 His Asn Asp Thr Gly Cys Ala Ile Ala Asn Ala Tyr Cys Ala Leu Glu
 180 185 190
 Ala Gly Ala Thr His Ile Asp Thr Ser Val Leu Gly Ile Gly Glu Arg
 195 200 205
 Asn Gly Ile Thr Pro Leu Gly Gly Leu Met Ala Arg Met Met Val Ala
 210 215 220
 Asp Pro Glu Tyr Val Lys Ser Lys Tyr Lys Leu Glu Lys Leu Lys Asp
 225 230 235 240
 Ile Glu Asp Leu Val Ala Ala Ala Val Glu Val Asp Ile Pro Phe Asn
 245 250 255
 Asn Tyr Ile Thr Gly Phe Cys Ala Phe Thr His Lys Ala Gly Ile His
 260 265 270
 Ala Lys Ala Ile Leu Asn Asn Pro Ser Thr Tyr Glu Ile Ile Asn Pro
 275 280 285
 Ala Asp Phe Gly Met Thr Arg Tyr Val His Phe Ala Ser Arg Leu Thr
 290 295 300
 Gly Trp Asn Ala Ile Lys Ser Arg Ala Gln Gln Leu Asn Ile Glu Met
 305 310 315 320
 Thr Asp Ala Gln Tyr Lys Glu Cys Thr Ala Lys Ile Lys Ala Leu Ala
 325 330 335
 Asp Ile Arg Pro Ile Ala Val Asp Asp Ala Asp Ser Ile Ile Arg Ala

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<210> 31781
<211> 98
<212> PRT
<213> A.fumigatus
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<210> 31782
<211> 287
<212> PRT
<213> A.fumigatus
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<400>	31782																
Leu	Glu	Val	Ala	Val	Val	Gly	Thr	Asp	Asn	Ala	Val	Ser	Val	Val	Val	Asn	
1				5					10						15		
Gly	Asn	Gly	Thr	Asp	Ile	Ser	Lys	Ser	Leu	Asp	Phe	Gly	Ser	Ala	Leu		
			20					25					30				
Leu	Val	Leu	Ser	Ile	Gly	His	Leu	Asn	Val	Glu	Leu	Leu	Ser	Thr	Arg		
		35					40					45					
Leu	Asp	Ser	Val	Pro	Thr	Arg	Gln	Ala	Arg	Ser	Lys	Val	Asn	Val	Ser		
	50					55					60						
Gly	His	Thr	Lys	Ile	Gly	Arg	Val	Asp	Asn	Leu	Val	Cys	Ala	Gly	Val		
65				70					75					80			
Val	Glu	Asp	Gly	Leu	Gly	Val	Asp	Thr	Gly	Phe	Val	Gly	Glu	Gly	Ala		
			85					90					95				
Glu	Thr	Ser	Asp	Val	Val	Val	Glu	Gly	Asn	Val	Asp	Phe	Asn	Gly	Ser		
			100					105					110				
Gly	Asn	Lys	Ile	Leu	Asn	Val	Leu	Glu	Leu	Leu	Glu	Leu	Val	Leu	Ala		
		115					120					125					
Leu	Asp	Val	Phe	Arg	Val	Gly	Asp	His	His	Thr	Gly	His	Glu	Thr	Thr		
	130					135					140						
Lys	Gly	Ser	Asp	Ala	Val	Thr	Leu	Pro	Asp	Thr	Lys	Asp	Arg	Gly	Ile		
145				150					155					160			
Asp	Val	Ser	Gly	Thr	Ser	Leu	Gln	Gly	Ala	Val	Ser	Val	Ser	Asp	Gly		

[illegible]

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<210> 31783
<211> 94
<212> PRT
<213> A.fumigatus
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<210> 31784
<211> 61
<212> PRT
<213> A.fumigatus
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```
<210> 31785
<211> 94
<212> PRT
<213> A.fumigatus
```

12334

```

Lys Gly Pro Met Val Asp Gly Pro Leu Asp His Tyr Ser Ser Val Val
1           5           10           15
Asp Ile Asp Leu Asn Gly Thr Phe Tyr Cys Ala Lys Tyr Ala Ala Ala
20           25           30
His Trp Arg Arg Gln Lys Glu Glu Gly Thr Asp Ile Tyr Gly Asn Lys
35           40           45
Leu Ser Asn Phe Thr Tyr Gly Ser Phe Val Ala Thr Ala Ser Met Ser
50           55           60
Gly His Ile Val Asn Phe Pro Gln Met Gln Ala Tyr Asn Ala Ala
65           70           75           80
Lys Ala Ala Val Ile His Leu Cys Lys Phe Gly Trp Leu Glu
85           90

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<210> 31786
 <211> 89
 <212> PRT
 <213> A.fumigatus

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<400> 31786
Asn Arg Cys Ser Tyr Ser Pro Gly Lys Ser Leu Ala Val Glu Trp Val
1           5           10           15
Lys Phe Ala Arg Ala Asn Thr Val Ser Pro Gly Tyr Ile Ala Thr Glu
20           25           30
Ile Ser Asn Phe Val Pro Gln Glu Thr Lys Asp Ile Trp Lys Asp Lys
35           40           45
Ile Pro Met Gly Arg Glu Gly Arg Ala Glu Glu Leu Lys Gly Ala Tyr
50           55           60
Leu Tyr Leu Ala Ser Asp Ala Ala Ser Tyr Thr Thr Gly Ala Asp Leu
65           70           75           80
Val Val Asp Gly Gly Tyr Cys Ala Pro
85

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<210> 31787
 <211> 334
 <212> PRT
 <213> A.fumigatus

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<400> 31787
Leu Leu Pro Gly Cys Cys Ser Cys Gln Glu Gly Val Ala Leu Pro Gln
1           5           10           15
Trp Tyr Leu Leu Arg Ser Pro Pro Asn Pro Asn Pro Gln Thr Lys His
20           25           30
Thr Asp Glu Ser Ala Thr Glu Val Glu Phe Thr Gly Ile Lys Arg Arg
35           40           45
Leu Leu Thr Glu Gly Leu Ser Asp Asp Ala Leu Thr Thr Leu Ala Pro
50           55           60
Gly Ala Thr Phe Glu Asp Glu Phe Asp Val Ala Ser Thr Ala Asp Leu
65           70           75           80
Thr Glu Gly Gly Thr Val Thr Ile Arg Thr Asp Gly Phe Val Pro Ile
85           90           95
Thr Thr Asp Arg Lys Val Ser Gly Tyr Ile Pro Tyr Gln Ser Asn Glu
100          105          110
Leu Glu Ile Glu Val Asp Ala Ala Lys Ala Ala Ala Val Pro Gln Ala
115          120          125
Ile Lys Leu Leu Asp Arg Arg Thr Lys Val Ala Ser Cys Ser Gly Ser
130          135          140

```

12335

Arg Ala Ser Ala Leu Ser Thr Ala Leu Arg Asn Ala Ala Ser Leu Ala
 145 150 155 160
 Asn Ala Ala Ala Ser Ala Ala Ser Ser Gly Ser Ser Thr Arg Phe Gln
 165 170 175
 Glu Tyr Phe Lys Thr Thr Ser Ser Ser Thr Arg Asn Thr Val Ala Ala
 180 185 190
 Arg Phe Arg Ala Val Ala Ser Glu Ala Ser Ser Gln Ser Ser Gly Lys
 195 200 205
 Thr Thr Tyr Tyr Cys Thr Asp Pro Tyr Gly Tyr Cys Asp Ser Asn Thr
 210 215 220
 Leu Ala Tyr Thr Leu Pro Ser Ser Asn Leu Ile Ala Asn Cys Asp Ile
 225 230 235 240
 Tyr Tyr Ser Tyr Leu Pro Ala Leu Thr Ser Ser Cys His Ala Gln Asp
 245 250 255
 Gln Ala Thr Thr Thr Leu His Glu Phe Thr His Ala Pro Ala Val Tyr
 260 265 270
 Ser Pro Gly Thr Asp Asp Tyr Ala Tyr Gly Tyr Arg Ala Ser Thr Ala
 275 280 285
 Leu Ser Ala Ser Gln Ala Leu Leu Asn Ala Asp Thr Tyr Ala Leu Phe
 290 295 300
 Ala Asn Gly Thr Pro Pro Leu Leu Pro Leu Ser Thr Ser Thr Ser Lys
 305 310 315 320
 Cys Ser Thr Leu Thr Met Val Ile Ala Val Asn Leu Asn Cys
 325 330

<210> 31788

<211> 172

<212> PRT

<213> A.fumigatus

<400> 31788

Pro Pro Val Leu Val Ile Ser Pro Phe Val Pro Gly Leu Val Arg Asp
 1 5 10 15
 Ile Tyr Thr Ala Ile Ile Ser Leu Gly Gly Val Val Tyr Lys Tyr Gly
 20 25 30
 Val Asp Pro Arg Ser Ala Arg Arg Ile Ser Lys Ser Thr Ala Ser Val
 35 40 45
 Lys Gln Leu Ser Pro Ile Gln Phe Ile Met Lys Val Thr Ile Leu Ala
 50 55 60
 Ser Ala Ile Leu Ala Leu Ile Asn Gly Ala Leu Ala Leu Pro Ala Asn
 65 70 75 80
 Thr Pro Thr Leu Asp Val Thr Leu Thr Gln Val Asp Asn Thr Arg Ile
 85 90 95
 Lys Ala Thr Val Lys Asn Thr Gly Asn Glu Lys Val Thr Phe Val His
 100 105 110
 Leu Asn Phe Phe Gln Asp Ala Ala Pro Val Lys Lys Val Ser Leu Phe
 115 120 125
 Arg Asn Gly Ile Ser Ser Glu Val Pro Pro Thr Pro Thr Pro Arg Pro
 130 135 140
 Asn Ile Leu Thr Ser Gln Pro Pro Arg Ser Ser Ser Pro Glu Ser Ser
 145 150 155 160
 Val Val Ser Ser Leu Lys Ala Ser Leu Thr Met Pro
 165 170

<210> 31789

<211> 151

<212> PRT

<213> A.fumigatus

<400> 31789

```

Pro Gln Thr Ala Lys Ser Pro Ala Thr Ser Pro Thr Ser Gln Thr Ser
1          5          10          15
Ser Arg Ser Arg Ser Thr Pro Gln Arg Pro Pro Pro Cys Pro Arg Pro
          20          25          30
Ser Ser Ser Ser Thr Ala Ala Gln Arg Ser Pro Pro Ala Pro Ala Ala
          35          40          45
Val Pro Arg Pro Ser Pro Arg Leu Cys Ala Thr Arg Leu Pro Ser Pro
          50          55          60
Thr Pro Leu Pro Ala Leu Pro Pro Pro Ala Arg Leu Leu Ala Ser Arg
65          70          75          80
Ser Thr Ser Arg Pro Pro Pro Ala Ala Pro Ala Thr Pro Ser Pro His
          85          90          95
Ala Ser Ala Pro Ser Pro Ala Arg Pro Pro Pro Ser Leu Pro Ala Arg
          100          105          110
Arg Pro Thr Thr Ala Pro Thr Pro Thr Ala Thr Ala Thr Pro Thr Pro
          115          120          125
Ser Pro Thr Leu Ser Pro Pro Ala Thr Ser Ser Pro Thr Ala Thr Ser
          130          135          140
Thr Thr Arg Ile Ser Arg Arg
145          150

```

<210> 31790

<211> 110

<212> PRT

<213> A.fumigatus

<400> 31790

```

Thr Leu Thr Ala Ser Gln Tyr Glu Ile Tyr Glu Lys Arg Glu Asn Glu
1          5          10          15
Ile Val Thr Ser Leu Val Leu His Asn Pro Ile Asn Ser Leu Tyr Phe
          20          25          30
Leu Ala Tyr Tyr Ser His Pro Phe Asn Gln Ser His Asn Arg Asn Tyr
          35          40          45
Lys His Thr Arg Thr Leu Arg Arg Gly Thr Ala Val Asn Pro Ser Gly
          50          55          60
Lys Ser Leu Arg Asp Ile Tyr Phe His Tyr Ser Asn Ser Pro Arg His
65          70          75          80
Ser His Thr Ala Gly Asn Pro Arg Arg Ser Pro Ala Thr Ser Asp Ser
          85          90          95
Trp Ala Gly Ile Ser Ser Arg Arg Ser Ser Pro Ser Ser Arg
          100          105          110

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<210> 31791

<211> 213

<212> PRT

<213> A.fumigatus

<400> 31791

```

Cys Arg Ala Phe Gly Ser Gly Cys Gly Glu Gly Lys Glu Gly Gly Gly
1          5          10          15
Thr Val Ser Glu Gln Gly Ile Gly Ile Arg Val Glu Gln Arg Leu Ala
          20          25          30

```

12337

Ser Thr Gln Gly Ser Gly Gly Pro Ile Ser Val Gly Ile Val Val Ser
 35 40 45
 Thr Gly Arg Val Asp Ser Arg Gly Val Gly Glu Leu Val Gln Gly Gly
 50 55 60
 Gly Gly Leu Val Leu Gly Val Ala Gly Ala Gly Gln Arg Arg Glu Ile
 65 70 75 80
 Arg Val Val Asp Val Ala Val Gly Asp Glu Val Ala Gly Gly Glu Ser
 85 90 95
 Val Gly Glu Gly Val Gly Val Ala Val Ala Val Gly Val Gly Ala Val
 100 105 110
 Val Gly Arg Leu Ala Gly Arg Leu Gly Gly Gly Leu Ala Gly Asp Gly
 115 120 125
 Ala Glu Ala Cys Gly Asp Gly Val Ala Gly Ala Ala Gly Gly Gly Leu
 130 135 140
 Glu Val Leu Leu Glu Ala Ser Arg Arg Ala Gly Gly Ser Ala Gly
 145 150 155 160
 Ser Gly Val Gly Glu Gly Ser Arg Val Ala Gln Ser Arg Gly Glu Gly
 165 170 175
 Arg Gly Thr Ala Ala Gly Ala Gly Gly Asp Leu Cys Ala Ala Val Glu
 180 185 190
 Glu Leu Asp Gly Leu Gly His Gly Gly Gly Leu Cys Gly Val Asp Leu
 195 200 205
 Asp Leu Glu Leu Val
 210

<210> 31792

<211> 69

<212> PRT

<213> A.fumigatus

<400> 31792

Pro Tyr Leu Thr Arg Trp Gln Leu Thr Leu Gln Ile Glu Ser Ala Met
 1 5 10 15
 Asn Glu Asp Asn Ser Ser Thr Thr Asp Pro Ala Lys Ile Gln Gln Ala
 20 25 30
 Asn Lys Thr Phe Ser Arg Asn His Ala Met Ser Ile His Leu Asn Ala
 35 40 45
 Ile Ala Leu Val Ala Thr Val Trp Tyr Gly Phe Thr Leu Ser Ser Ser
 50 55 60
 Leu Leu Asn Gly Leu
 65

<210> 31793

<211> 145

<212> PRT

<213> A.fumigatus

<400> 31793

Thr Asn Ala Met Ser Thr Gln His Gly Pro Lys Ser Thr Arg Thr Asn
 1 5 10 15
 Asp Leu Tyr Glu Leu Ala Val Asn Ile Ser Ser Thr Val Glu Ala Phe
 20 25 30
 Val Gly Arg Leu Asp Ala Ile Gly Ala Glu Arg Pro Asn Leu Asp Asn
 35 40 45
 Pro Phe Pro Glu Ile Ile Gln Asp Glu Gly Ala Gln Leu Ala Arg Leu
 50 55 60

12338

Lys Ile Leu Arg Leu Cys Glu Arg Leu Met Ala Leu Val Gln Gly Pro
 65 70 75 80
 Val Gln Trp Leu Met Phe Gln Asn Met Ala Phe Leu Asp Ala Ala Cys
 85 90 95
 Val Gly Ala Ile Leu Asp Met Gly Ile His Asp Ile Ile Ala Pro Gly
 100 105 110
 Pro Glu Pro Thr Ser Leu Asp Gln Ile Val Glu Ala Thr Gly Ala Ser
 115 120 125
 Lys Asp Ile Leu Ser Thr Arg Arg Arg Leu Ser Ser Met Gln Arg Ser
 130 135 140
 Ser
 145

<210> 31794

<211> 142

<212> PRT

<213> A.fumigatus

<400> 31794

Ile Leu Ala Ala Asn Lys Gly Leu Phe Asp Tyr Phe Tyr Thr Glu Asp
 1 5 10 15
 Leu Ala Arg Gly Gln Arg Phe Ala Leu Gly Met Ala Gly Ser Glu Ile
 20 25 30
 Met Lys Thr Leu Thr Glu Asp Met Phe Pro Phe Glu Ser Leu Pro Gln
 35 40 45
 Gly Ala Lys Val Val Asp Val Gly Gly Gly Arg Gly His Val Ser Val
 50 55 60
 Arg Ile Ala Glu Lys Val Pro Gly Leu Asn Phe Val Val Gln Asp Asp
 65 70 75 80
 Glu Ser Met Leu Glu Ala Gly Gln Ala Glu Gly Val Pro Lys Ala Val
 85 90 95
 Lys Asp Arg Ile Glu Phe Met Pro His Asp Phe Phe Asn Glu Gln Pro
 100 105 110
 Val Lys Gly Ala Asp Val Tyr Leu Arg Phe Ile Leu His Asp His
 115 120 125
 Ser Asp Arg Leu Val Leu Pro Thr Gly Arg Lys Lys Tyr Gly
 130 135 140

<210> 31795

<211> 110

<212> PRT

<213> A.fumigatus

<400> 31795

Phe Cys Gln Gln Glu Gly Arg Ser Met Ala Asn Ser Pro Ser Arg Cys
 1 5 10 15
 Ala Lys Ile Leu Ser Asn Ile Val Asp Ala Met Glu Pro Gly Lys Ser
 20 25 30
 Arg Ile Leu Ile Asp Asp Ala Ile Val Pro Ser Phe Leu Gly Pro Glu
 35 40 45
 Ser Ser Arg Phe Tyr Asn Leu Leu Asp Leu Tyr Met Leu Ala Gly Leu
 50 55 60
 Asn Gly Lys Glu Arg Thr Leu Glu Gln Trp Asn Tyr Leu Ile Gln Met
 65 70 75 80
 Val Ser Pro Lys Leu Val Leu Glu Lys Val Trp Lys Thr Pro Asn Gly
 85 90 95

12339

Gly Pro Glu Ser Gly Thr Ile Leu Glu Leu Arg Leu Gln Glu
 100 105 110

<210> 31796

<211> 163

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (1)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31796

Xaa	His	Ile	His	Phe	Gln	Tyr	Asn	Gly	Phe	Leu	Tyr	Gly	Ile	Leu	Val
1			5					10						15	
Leu	Ser	Ile	Val	Leu	Ala	Arg	Lys	Pro	Ser	Thr	Leu	Leu	Tyr	Ser	Gly
		20					25					30			
Ile	Leu	Phe	Ala	Val	Leu	Leu	Cys	Phe	Lys	His	Ile	Tyr	Leu	Tyr	Leu
		35					40					45			
Ser	Leu	Ala	Tyr	Phe	Val	Tyr	Leu	Leu	Arg	Ala	Tyr	Cys	Leu	Asp	Pro
	50					55				60					
Lys	Ser	Val	Phe	Arg	Pro	Arg	Phe	Gly	Asn	Thr	Leu	Lys	Leu	Gly	Leu
65				70					75					80	
Ser	Val	Ile	Gly	Val	Phe	Gly	Ile	Ala	Phe	Gly	Pro	Phe	Ala	His	Trp
				85					90					95	
Asn	Gln	Leu	Leu	Gln	Leu	Lys	Asp	Arg	Leu	Phe	Pro	Phe	Ser	Arg	Gly
		100						105					110		
Leu	Cys	His	Ala	Tyr	Trp	Ala	Pro	Asn	Ile	Trp	Ala	Met	Tyr	Ser	Phe
		115					120					125			
Ala	Asp	Arg	Val	Leu	Ile	Leu	Arg	Glu	Tyr	Asn	Asn	Leu	Arg	Leu	His
	130					135					140				
Leu	Cys	Arg	Phe	Thr	His	Asn	Ser	Cys	Ser	Ala	Pro	Gly	Pro	Ser	
145				150					155					160	
Asp	Gln	Pro													

<210> 31797

<211> 174

<212> PRT

<213> A.fumigatus

<400> 31797

Leu	Pro	Leu	Ile	Lys	Leu	Trp	Leu	His	Pro	Asp	Trp	Asn	Thr	Phe	Val
1			5					10						15	
Gly	Ala	Ile	Thr	Leu	Cys	Gly	Tyr	Ala	Ser	Phe	Leu	Phe	Gly	Trp	His
		20					25					30			
Val	His	Glu	Lys	Ala	Val	Leu	Leu	Ile	Ile	Val	Pro	Phe	Ser	Leu	Ile
		35					40					45			
Ala	Leu	Lys	Asp	Arg	Arg	Tyr	Phe	Ser	Ala	Phe	Arg	Pro	Leu	Ala	Val
	50					55					60				
Ala	Gly	His	Val	Ser	Leu	Phe	Pro	Leu	Leu	Phe	Thr	Ala	Ala	Glu	Phe
65				70						75				80	
Pro	Leu	Lys	Thr	Val	Tyr	Thr	Val	Trp	Trp	Leu	Val	Leu	Phe	Leu	Phe
			85					90					95		
Val	Phe	Asp	Gln	Val	Ala	Pro	Val	Ser	Glu	Arg	Pro	Arg	Met	Phe	Val

[illegible]

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<210> 31798
<211> 370
<212> PRT
<213> A.fumigatus
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Phe	Tyr	Ser	Phe	Ala	Gln	Tyr	Arg	Asp	Ile	Gln	Thr	Asn	Met	Ser	Gly
1				5					10					15	
Val	Phe	Gly	Leu	Leu	Phe	Ser	Arg	Leu	Thr	Leu	Pro	Ala	Pro	Ser	Ala
			20					25					30		
Ile	Gln	Gly	Lys	Thr	Ile	Leu	Ile	Thr	Gly	Ala	Asn	Thr	Gly	Leu	Gly
		35					40					45			
Arg	Glu	Ala	Ala	Arg	His	Ala	Leu	Ala	Leu	Gly	Ala	Gly	Thr	Val	Ile
	50					55					60				
Leu	Gly	Val	Arg	Ser	Leu	Ser	Lys	Gly	Glu	Asp	Ala	Lys	Ala	Asn	Ile
65					70					75				80	
Asp	Ala	Ser	Thr	Gly	Cys	Thr	Asp	Lys	Gly	Lys	Val	Leu	Val	Trp	Pro
				85					90					95	
Ile	Asp	Leu	Glu	Ser	Phe	Ala	Ser	Val	Gln	Gly	Phe	Ala	Ala	Arg	Val
			100					105					110		
Arg	Lys	Tyr	Val	Thr	Glu	Gly	Gly	Arg	Leu	Asp	Met	Ala	Ile	Met	Asn
		115					120					125			
Ala	Gly	Ile	Ala	Ser	Val	Thr	Tyr	Ala	Val	Thr	Arg	Asp	Gly	Trp	Glu
	130					135					140				
Arg	Gly	Ile	Gln	Val	Asn	Val	Leu	Ser	Thr	Ala	Leu	Leu	Ser	Leu	Glu
145					150					155				160	
Leu	Leu	Pro	Leu	Leu	Leu	Arg	Thr	Lys	Glu	Arg	Asp	Ser	Ser	Ser	Gln
				165					170					175	
Pro	His	Leu	Thr	Ile	Val	Thr	Ser	Asp	Ile	His	Lys	Ser	Ile	Lys	Phe
			180					185					190		
Pro	Glu	Arg	Asn	Glu	Gln	Asn	Ile	Leu	Ser	Ala	Leu	Asn	Asp	Glu	Lys
		195					200					205			
Gln	Trp	Arg	Glu	Ser	Gln	Ala	Val	Gly	Gly	Ala	Thr	Glu	Arg	Tyr	Gly
	210					215					220				
Val	Thr	Lys	Leu	Met	Asp	Leu	Phe	Ile	Thr	Phe	Glu	Ile	Ala	Gln	Leu
225					230					235				240	
Val	Pro	Arg	Asp	Lys	Ser	Gly	Asn	Pro	Leu	Val	Ile	Val	Asn	Ala	Val
				245					250					255	
Ala	Pro	Gly	Phe	Cys	Lys	Ser	Asp	Leu	Leu	Ser	Arg	Glu	Lys	Val	Pro
		260						265					270		
Leu	Ile	Leu	Lys	Leu	Ile	Gln	Ala	Leu	Ile	Ala	Met	Thr	Ala	Glu	Lys
		275					280					285			
Gly	Ser	Lys	Thr	Leu	Leu	His	Ala	Ala	Ser	His	Gly	Ala	Glu	Thr	His
	290					295					300				
Gly	Lys	Trp	Leu	Asp	Asn	Gln	Ile	Ile	Thr	Glu	Tyr	Val	Val	Thr	Leu
305					310					315					320

12341

Ile Gly Asp Val Ile Val Arg Ala Ala Asp Met Cys Phe Arg Pro Gly
 325 330 335
 Asn Ile Ile Thr Ser Pro Glu Ala Val Val Leu Arg Lys Lys Leu Trp
 340 345 350
 Ala Glu Ile Leu Ser Val Leu His Asp Val Asn Pro Glu Ile Gln Thr
 355 360 365
 Glu Ser
 370

<210> 31799
 <211> 79
 <212> PRT
 <213> A.fumigatus

<400> 31799
 Phe Glu Val Asp Trp Pro Asn Lys Tyr Leu Ser Leu Val Cys Ala Ala
 1 5 10 15
 Gly Thr Cys Val Asp Val Gly Phe Gly Val Phe Ala Leu Ala Gln Ala
 20 25 30
 Ser Asn Ala Gln Asn Asp Arg Thr Gly Ala Gln Gly Glu Arg Met Ser
 35 40 45
 Gly Ser Phe Thr Thr Glu Ala Ser Val Arg Thr Gly Asp Glu Asp Ser
 50 55 60
 Phe Pro Leu Asp Cys Arg Gly Ser Trp Glu Ser Gln Pro Ala Lys
 65 70 75

<210> 31800
 <211> 143
 <212> PRT
 <213> A.fumigatus

<400> 31800
 Ala Leu Phe Glu Leu Val Thr Gly Asn Leu Cys Thr Ala Asn Tyr Tyr
 1 5 10 15
 Gly Ser Ala Ala Arg Met Ile Tyr Met Leu Gly Gly His Thr Tyr
 20 25 30
 Pro Gly Pro Ile Asn Ser Phe Ser Ala Ser Pro Ala Glu His Leu Glu
 35 40 45
 Gln Arg Lys Lys Arg His Leu Arg Asn Leu Phe Trp Leu Cys Tyr Thr
 50 55 60
 Ile Glu Lys Asp Val Ala Leu Arg Thr Gly Gln Pro Gln Val Leu Ser
 65 70 75 80
 Asp Glu Asn Cys Asp Leu Thr Leu Pro Pro Gly Tyr Val Glu His Leu
 85 90 95
 Tyr Arg Ser Leu Gly Ile His His His Ser Arg Glu Leu Pro Asp His
 100 105 110
 Pro Met Phe Pro Val Asp Leu Arg Leu Ser Ile Ile Lys Ser Arg Ala
 115 120 125
 Tyr Ser Ala Leu Tyr Ser Phe Arg Gly Leu Gln Lys Thr Asp Ala
 130 135 140

<210> 31801
 <211> 101
 <212> PRT
 <213> A.fumigatus

<400> 31801

Phe Ala Val His Arg Leu Pro Val Thr Ser Ser Lys Ser Ala Tyr Glu
 1 5 10 15
 Ser Val Ser Phe Val Glu Glu Arg Tyr Ser Lys Val Thr Gln Leu Ala
 20 25 30
 Arg Gln Phe Ala Arg Cys Gln Ala Ser Met Thr Thr His His Asn Asp
 35 40 45
 Lys Arg Leu Gln Thr Leu Gln Ala Arg Ile Leu Pro Glu Asp Leu Arg
 50 55 60
 Asp Glu Thr Leu Ser Leu Glu Gly Lys Ser Leu Ala Val Asp Arg Arg
 65 70 75 80
 Glu Ala Lys Arg Ser Ile Leu Val Phe Arg Asn Leu Glu Asn Gly Thr
 85 90 95
 Lys Gly Lys Lys Gly
 100

<210> 31802

<211> 374

<212> PRT

<213> A.fumigatus

<400> 31802

Arg Arg Leu Asp Ser Leu Gly Asp Met Gly Gly Pro Thr Leu His Leu
 1 5 10 15
 Tyr Leu Leu Ser Asp Asn Val Thr Glu Lys Glu Asp Phe Tyr Phe Gly
 20 25 30
 Met Leu Gln Asn Gln Thr Arg Met Gly Asp Ser Pro Asn Cys Pro Pro
 35 40 45
 Lys His Gln Gln Phe Asp Val Lys His Ile Val Thr Ile Val Gln Arg
 50 55 60
 Ile His Ser Ser Glu Glu Gln Leu Gln Thr Arg Trp Ile Asn Ala Val
 65 70 75 80
 Leu Gly Arg Leu Phe Leu Ala Leu Tyr Lys Thr Pro Glu Val Glu Asp
 85 90 95
 Phe Ile Arg Gln Lys Ile Thr Lys Lys Ile Ser Arg Val Asn Lys Pro
 100 105 110
 Asn Phe Ile Ser Lys Leu Cys Leu Gln Arg Ile Gly Met Gly Glu Gly
 115 120 125
 Ala Pro Phe Ile Thr Asn Pro Arg Leu Lys Asp Leu Thr Val Asp Gly
 130 135 140
 Asn Cys Cys Val Glu Thr Asp Ile Gln Tyr Thr Gly Asn Phe Arg Leu
 145 150 155 160
 Glu Ile Ser Ala Thr Val Arg Ile Asp Leu Ser Pro Arg Phe Lys Ala
 165 170 175
 Arg Glu Val Asp Ile Val Leu Ala Val Val Leu Lys Lys Leu Glu Gly
 180 185 190
 His Met Leu Ile Arg Phe Lys Pro Pro Pro Ser Asn Arg Val Trp Val
 195 200 205
 Ser Phe Glu Thr Met Pro Asn Met Val Met Asp Ile Glu Pro Ile Val
 210 215 220
 Ser Ser Lys Gln Ile Thr Tyr Gly Ile Ile Leu Arg Thr Ile Glu Ser
 225 230 235 240
 Arg Ile Arg Glu Val Val Ala Glu Ser Val Val Gln Pro Tyr Trp Asp
 245 250 255
 Asp Ile Pro Phe Leu Asp Thr Ala Ser Gln Pro Tyr Arg Gly Gly Ile
 260 265 270

12343

Trp Gln Arg Glu Val Pro Gly Gln Asp Ser Lys Ala Glu Ile Pro Asp
 275 280 285
 Glu Ser Ile Ser Gln Pro Gln Thr Leu Thr Thr Lys Asp Ser Thr Glu
 290 295 300
 Ala Leu Lys Thr Lys Asp Asp Arg Ala Met Ser Met Pro Val Leu Leu
 305 310 315 320
 Glu Thr Thr Ala Gly Leu Lys Ser Arg Lys Ser Ser Lys Leu Val Thr
 325 330 335
 Thr Asp Ser Glu Thr Ser Ile Ser Ser Ala Val Asp Lys Thr Gly Gly
 340 345 350
 Leu Cys Ser Ala Ala Arg Tyr Ser Ile Ser Asn Val Phe Glu Cys Gly
 355 360 365
 Arg Ser Cys Arg His Cys
 370

<210> 31803

<211> 386

<212> PRT

<213> A.fumigatus

<400> 31803

Asn His Ala Lys Ala Pro Ser Trp Leu Gln Gln Thr Arg Lys Arg Val
 1 5 10 15
 Tyr His Gln Pro Leu Ile Lys Leu Ala Val Cys Ala Pro Pro Arg Ala
 20 25 30
 Ile Arg Ser Gln Thr Phe Ser Asn Val Ala Asp Pro Val Val Thr Ala
 35 40 45
 Asp Asn Val Lys Ile Glu Lys Ala Thr Ser Asp Ile Lys Gly Glu Glu
 50 55 60
 Lys Ser Ser Ala Ala Ser Ala Met Ile Glu Ile Ser Asn Arg Ser Pro
 65 70 75 80
 Pro Gly Ser Pro Asn Lys Thr Pro Asn Gly Ser Pro Pro Ser Ile Ser
 85 90 95
 Gln Met Asn Pro Glu Lys Leu Ser Ser Arg Gly Ser Ser Phe Met
 100 105 110
 Glu Ser Ile Glu Ser Val Ser Glu Phe Ala Ser Ser Ser Pro Thr Arg
 115 120 125
 Pro Thr Ser Ala His Leu Ala Ser Glu Ser Ser Asn Ala Leu Arg Gly
 130 135 140
 Ala Asn Gly Ser Ser Asn Ala Ser Ile Asn Ser Asp Arg Ser Arg Arg
 145 150 155 160
 Arg Ser Thr Leu Glu Thr Val Gly Thr Leu Thr Arg Ser Val Thr Ser
 165 170 175
 Ser Thr Ala Ser Glu Glu Lys Pro Lys Leu Ser Ile Ser Leu Gly Thr
 180 185 190
 Ala Thr Ala Ala Ala Lys Lys Trp Ser Trp Ser Val Phe Gly Lys Gly
 195 200 205
 Asp Ser Asn Ser Gln Glu Ile Ser Arg Pro Ala Gly Thr Pro Asp Glu
 210 215 220
 Pro Ile Gly Arg Gly His Pro Leu Pro Pro Gly Thr Pro Leu Pro
 225 230 235 240
 Arg Pro Asp Lys Phe Gly Ile Lys Ser Asn Pro Ile Pro Arg Arg Lys
 245 250 255
 Pro Val Pro Pro Pro Leu Pro Gly Arg Ser Lys Gly Asp Ala Lys Arg
 260 265 270
 Pro Val Pro Lys Pro Pro Leu Pro Lys Arg Lys Pro Pro Ala Arg Pro

12344

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      275              280              285
Glu Gly Asp Glu Ser Ser Pro Asp Glu Leu Leu Val Val Glu Ala Pro
      290              295              300
Tyr Asp Ser Thr Pro Asn Ser Pro Ala Pro Asp Ser Ser Ser Glu Ile
305              310              315              320
Gly Ile Val Leu Pro Ile Ala Thr Gln Ala Asn Thr Arg Asp Leu Ser
      325              330              335
Arg Ser Gly Ser Asp Asp Val Val Ala Ser Arg Arg Trp Asp Asp Gly
      340              345              350
Thr Glu Gln Lys Ser Ser Glu His Asp Ser Phe Gly His Gly Met Pro
      355              360              365
Gly Val Thr Lys His Gly Met Glu Ile Leu Ser Ala Thr Asp Gly Ile
      370              375              380
Leu Pro
385

```

<210> 31804

<211> 69

<212> PRT

<213> A.fumigatus

<400> 31804

```

Arg Phe Gly Arg Leu Ser Gly Lys Leu Ala Pro Ala Val Arg Pro Ser
1              5              10              15
Gln Val Leu Ala Thr Arg Ser Pro Pro Asp Ser Ser Ile Ser Leu Thr
      20              25              30
Glu Gly Met Lys Pro Asn Ile Val Ile Thr Tyr Val Lys Leu Leu Pro
      35              40              45
Ser Asp Gly Ser Lys Tyr Val Ile Ser Leu Arg Thr Gln Val Thr Ala
      50              55              60
Val Cys Ser Ile Cys
65

```

<210> 31805

<211> 174

<212> PRT

<213> A.fumigatus

<400> 31805

```

Met Gly Thr Ile Pro Gly Gly Met Thr Asn Gly Thr Arg Asn Trp Val
1              5              10              15
Phe Arg Lys Ala Leu Ser Pro Ser Ser Ala Ala Ala Ser Thr Asn Leu
      20              25              30
Pro Asp Pro Ile Thr Pro Ser Gly Pro Ala Phe Ser Lys Thr Ser Thr
      35              40              45
Ile Gly Asn Val His Thr Arg Thr Met Lys Gln Thr Ala Val Thr Leu
      50              55              60
Phe Arg Phe Ser Ala Leu Thr Phe Asn Pro His Lys Ile His Tyr Ser
      65              70              75              80
Leu Pro Trp Ala Arg Asp Val Glu Gly His Arg Asp Ile Val Val His
      85              90              95
Gly Pro Leu Asn Leu Ile Asn Ile Leu Asp Leu Trp Arg Asp Thr Arg
      100              105              110
Thr Ala Thr Leu Ala Ser Glu Ala Pro Glu Leu Ile Leu Pro Gln Ser
      115              120              125
Ile Ser Tyr Arg Ala Thr Ser Pro Leu Tyr Ala Glu Glu Glu Tyr Arg

```

12345

130 135 140
 Ile Ile Leu Glu Asp Glu Asp Ser Ile Ala Lys Val Gln Val Ile Gly
 145 150 155 160
 Pro Asp Gly Lys Thr Val Ala Met Lys Ala Asp Ile Lys Ser
 165 170

<210> 31806
 <211> 205
 <212> PRT
 <213> A.fumigatus

<400> 31806
 Phe Ala Asp Leu Ala Leu Leu Leu Leu Arg Asp Trp Ser Glu Arg Pro
 1 5 10 15
 Thr Ala Asn Trp Trp Ser Ile Ser Gly Ser Ser Ala Ser Ala Ser
 20 25 30
 Ala Arg Arg Arg Lys Ala Lys Ala Leu Val Thr Lys Thr Thr Arg Arg
 35 40 45
 Trp Trp Pro Thr Thr Pro Ala Lys Pro Leu Thr Ala Thr Leu Ser Thr
 50 55 60
 Arg Pro Ser Thr Thr Gln Ile Ser Pro Thr Leu Arg Thr Thr Pro Val
 65 70 75 80
 Arg Ser Arg Ser Thr Ser Lys Ala Thr Pro Met Phe Ala Ala Ala Arg
 85 90 95
 Ala Arg Arg Ala Ser Arg Thr Ser Ser Thr Ser Val Arg Cys Leu Arg
 100 105 110
 Arg Thr Thr Arg Trp Ile Ser Trp Leu Pro Thr Arg Trp Pro Ala Phe
 115 120 125
 Leu Pro Pro Ser Pro Ala Ser Ala Ser Ser Ile Pro Ala Arg Ala Pro
 130 135 140
 Gly Lys Ser Met Pro Pro Asn Ser Ala Gln Met Ala Ala Ser Ser Ser
 145 150 155 160
 Ala Met Arg Arg Thr Thr Thr Ser Thr Cys Pro Val His Leu Glu Ala
 165 170 175
 Thr Pro Thr Gln Ala Arg Ala Ala Ser Thr Pro Thr Trp Pro Leu Ser
 180 185 190
 Ala Asp Arg Thr Pro Ser Ala Ala Val Lys Arg Ala Val
 195 200 205

<210> 31807
 <211> 261
 <212> PRT
 <213> A.fumigatus

<400> 31807
 Asp Val Ser Gly Gly Gln Pro Ala Gly Ser Pro Gly Ser Arg Arg Ala
 1 5 10 15
 Gly Gln His Phe Tyr His Gln Ala Gln Arg Pro Leu Pro Gln Tyr Arg
 20 25 30
 Pro Gly Leu Pro Glu Lys Ala Cys Arg Gln Ile Arg Pro Arg Trp Pro
 35 40 45
 Pro Pro His Arg Arg Cys Gly Glu Arg Arg His Arg His Val Arg Cys
 50 55 60
 Thr Trp Arg Arg Arg Arg Pro Arg Arg Glu Arg His Gln Arg Leu Pro
 65 70 75 80
 Gly Arg Cys Gln Arg Thr Gly Arg His Pro Pro Arg Ser Lys Gly Pro

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<210> 31808
<211> 582
<212> PRT
<213> A.fumigatus
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Arg	Arg	Ser	Gly	Asp	Lys	Arg	Pro	Pro	Thr	Ser	His	Thr	Leu	Ile	Asp
1				5					10					15	
Leu	Val	Ile	Ala	Met	Ser	Ile	Tyr	Leu	Pro	Arg	Ser	Ser	Phe	Ala	Ser
			20					25					30		
Leu	Phe	Ala	Leu	Ala	Ala	Ala	Ile	Leu	Asn	Gly	Gln	Thr	Thr	Asp	Gln
		35					40				45				
Gln	Leu	Ile	Lys	Lys	Ala	Tyr	Lys	Leu	Ile	Pro	Arg	Leu	Ala	Thr	Thr
	50					55				60					
Glu	Thr	Gly	Arg	Thr	Ala	Leu	Leu	Glu	Arg	Ser	Ala	Glu	Leu	Gln	Ser
65				70					75					80	
Leu	Met	Leu	Ala	Thr	Ala	Asp	Lys	Thr	Pro	Ala	Ser	Ala	Arg	Arg	Asp
			85						90				95		
Arg	Ser	Leu	Ala	Ile	Tyr	Glu	Leu	Ile	Thr	Tyr	Leu	Pro	Thr	Ser	Asp
			100					105					110		
Leu	His	Phe	Ile	Pro	Ser	Ile	Leu	Ser	Glu	Val	Val	Leu	Gly	Cys	Lys
	115						120					125			
Glu	Ser	Asn	Glu	Lys	Ala	Arg	Thr	Ala	Ser	Phe	Asp	Leu	Leu	Ile	His
	130					135					140				
Leu	Ala	Lys	Arg	Thr	Ile	Asp	Ser	Asp	Arg	Asn	Pro	Pro	Gly	Thr	Lys
145				150					155					160	
Ile	Arg	Asn	Ser	Leu	Val	Pro	His	Met	Pro	Asn	Asp	Ala	Pro	Asp	Ala
			165						170					175	
Pro	Ala	Thr	Ile	Glu	Glu	Phe	Phe	Thr	Met	Val	Ser	Ala	Gly	Leu	Ala
		180						185					190		
Gly	Ser	Ser	Pro	His	Met	Val	Ala	Ala	Ser	Val	Thr	Ala	Leu	Ser	Arg
	195						200					205			

12347

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Leu Phe Phe Asp Phe His Thr Gln Leu Glu Pro Ser Val Arg Ile Asp
  210                      215                      220
Leu Val Gln Thr Val Glu Leu Phe Leu Thr Ser Asn Asn Arg Glu Ile
  225                      230                      235                      240
Val Arg Ser Val Leu Gly Phe Val Lys Val Ala Val Val Val Leu Pro
  245                      250                      255
Glu Asp Ala Leu Arg Pro Arg Leu Asn Thr Leu Val Pro Asn Leu Met
  260                      265                      270
Val Trp Asn Lys Glu His Lys Gly Arg Val Arg Ser Lys Val Lys Gly
  275                      280                      285
Ile Leu Asp Arg Leu Ile Arg Arg Phe Gly Ala Pro Leu Ile Glu Gly
  290                      295                      300
Leu Val Gly Glu Ala Asp Arg Lys Leu Val Val Asn Ile Arg Lys Gln
  305                      310                      315                      320
Arg Glu Arg Arg Lys Arg Lys Lys Lys Glu Gly Glu Gly Ala Gly Asp
  325                      330                      335
Glu Asp Asp Glu Glu Val Val Ala Asp Asn Ala Gly Lys Ala Ala Tyr
  340                      345                      350
Ser Asn Ala Phe Asp Lys Ala Val Tyr Asp Ser Asp Phe Ser Asp Ser
  355                      360                      365
Glu Asp Asp Ala Ser Glu Ile Glu Val Asp Glu Gln Gly Asn Thr His
  370                      375                      380
Val Arg Gly Arg Lys Gly Lys Lys Gly Lys Gln Asn Glu Gln Tyr Ile
  385                      390                      395                      400
Arg Glu Met Ser Pro Glu Asp Asn Pro Leu Asp Leu Leu Ala Pro Asp
  405                      410                      415
Ala Leu Ala Ser Ile Ser Thr Thr Lys Pro Ser Val Arg Phe Leu Asn
  420                      425                      430
Thr Gly Pro Gly Ser Arg Lys Lys His Ala Ala Lys Phe Gly Pro Asp
  435                      440                      445
Gly Arg Leu Leu Ile Gly Asp Ala Glu Asn Asp Asp Ile Asp Met Ser
  450                      455                      460
Gly Ala Pro Gly Gly Asp Ala Asp Pro Gly Glu Ser Gly Ile Asn Ala
  465                      470                      475                      480
Tyr Leu Ala Ala Val Ser Gly Pro Asp Ala Ile Arg Arg Gly Gln Lys
  485                      490                      495
Gly Arg Leu Lys Met Ser Gln Ala Gln Lys Lys Lys Asn Ser Gly Gly
  500                      505                      510
Asp Gly Met Asp Leu Asp Asp Asn Glu Asp Asp Asp Glu Ala Pro Ala
  515                      520                      525
Ser Ala Ser Asn His Gly Lys Gly Pro Gln Ser Thr Arg Arg Gly Leu
  530                      535                      540
Gly Val Pro Lys Thr His Gly Pro Ser Gly Asn Gly Arg Ile Gln Lys
  545                      550                      555                      560
Arg Arg Asn Pro Pro Lys Gly Gly Arg Gln Ser Gly Arg Gly Gly Ile
  565                      570                      575
Arg Val Gly Lys Arg Arg
  580

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<210> 31809

<211> 340

<212> PRT

<213> A.fumigatus

<400> 31809

Ala Val His Thr Met Ser Pro Leu Arg Pro Leu Leu Arg Ser Pro Gln

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1           5           10           15
Thr Pro Gly Lys Arg Val Ala Gln His Ile Arg His Phe His Ala Thr
20           25           30
Arg Pro Ser Pro Phe Ile Asn Glu Val Leu Asp Val Ser Ser Gly Phe
35           40           45
Ile His Ala Val His Ser Ile Ser Gly Leu Pro Trp Ala Leu Ser Ile
50           55           60
Pro Leu Thr Ala Leu Ile Val Arg Thr Thr Val Ala Met Pro Leu Gln
65           70           75           80
Met Tyr Thr Lys Ile Gln Ala Arg Lys Glu Arg Asp Leu Ala Pro Leu
85           90           95
Leu His Ser Trp Arg Lys His Phe Gln Ala Gln Ile Lys Lys Arg Val
100          105          110
Asp Ala Glu Asn His Asn Pro Ile Leu Pro Arg Glu Ala Ile Arg Glu
115          120          125
Leu Ala Thr Lys Val Lys Ala Lys Arg Lys Glu Leu His Lys Arg Trp
130          135          140
Asn Val Pro Arg Phe Trp Lys Pro Val Ser Phe Leu Gln Ile Pro Ile
145          150          155          160
Trp Ile Ser Val Met Glu Ser Leu Arg Ala Met Ser Gly Asn Asn Lys
165          170          175
Gly Leu Val Pro Tyr Leu Leu Ser Leu Val Glu Pro Ser Ser Val Glu
180          185          190
Pro Ser Thr Ala Val His Leu Ala Val Glu Pro Ser Leu Ala Thr Glu
195          200          205
Gly Ala Leu Trp Phe Pro Asp Leu Leu Ala Gly Asp Ser Thr Gly Ile
210          215          220
Leu Pro Ala Ala Leu Thr Leu Ser Ile Ile Leu Asn Ile Arg Thr Gly
225          230          235          240
Trp Lys Ser Pro Ala Leu Ser Asp Met Ala Asp Leu Pro Arg Ile Glu
245          250          255
Ile Ala Lys Asn Leu Thr Val Arg Gly Ile Arg Val Leu Ile Gln Ala
260          265          270
Leu Ala Leu Asn Ile Gly Val Ser Ser Tyr Leu Tyr Glu Met Pro Ser
275          280          285
Ala Leu Met Ile Tyr Trp Ile Ser Ser Thr Asn Ile Ala Thr Leu Gln
290          295          300
Thr Phe Leu Leu Glu Arg Phe Met Leu Ser Lys Pro Leu Leu Glu Pro
305          310          315          320
Trp Arg Gln Ile His Ile Gly Tyr Pro Gln Lys Gly Glu Lys Thr Pro
325          330          335
Pro Ser Lys Lys
340

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<210> 31810

<211> 637

<212> PRT

<213> A.fumigatus

<400> 31810

```

Lys Gly Thr Ile Val Pro Ala Asp Gly Arg Ile Val Ser Ala Asn Leu
1           5           10           15
Ile Gln Val Asp Gln Ser Ser Ile Thr Gly Glu Ser Leu Ala Ile Asp
20           25           30
Lys His Lys Gly Asp Thr Cys Tyr Ala Ser Ser Ala Val Lys Arg Gly
35           40           45

```

Arg Ala Ile Ile Val Val Thr Ala Thr Gly Asp Tyr Thr Phe Val Gly
 50 55 60
 Gln Ala Ala Ala Leu Val Asn Ala Ala Ser Ser Gly Ser Gly His Phe
 65 70 75 80
 Thr Glu Val Leu Asn Gly Ile Gly Ala Val Leu Leu Val Leu Val Ile
 85 90 95
 Ile Thr Leu Leu Val Val Trp Val Ser Ser Phe Tyr Arg Ser Asn Gly
 100 105 110
 Ile Thr Thr Ile Leu Glu Phe Thr Leu Ala Ile Thr Ile Ile Gly Val
 115 120 125
 Pro Val Gly Leu Pro Ala Val Val Thr Thr Thr Met Ala Val Gly Ala
 130 135 140
 Ala Tyr Leu Ala Lys Lys Gln Ala Ile Val Gln Arg Leu Ser Ala Ile
 145 150 155 160
 Glu Ser Leu Ala Gly Val Glu Ile Leu Cys Ser Asp Lys Thr Gly Thr
 165 170 175
 Leu Thr Lys Asn Lys Leu Ser Leu Ser Glu Pro Tyr Thr Val Ala Gly
 180 185 190
 Val Glu Pro Asp Asp Leu Met Leu Thr Ala Cys Leu Ala Ala Ser Arg
 195 200 205
 Lys Lys Lys Gly Met Asp Ala Ile Asp Lys Ala Phe Phe Lys Ala Leu
 210 215 220
 Arg His Tyr Pro Arg Ala Lys Ala Ala Leu Thr Lys Tyr Lys Val Leu
 225 230 235 240
 Glu Phe His Pro Phe Asp Pro Val Ser Lys Lys Val Thr Ala Val Val
 245 250 255
 Gln Ser Pro Gln Gly Arg Arg Met Thr Cys Val Lys Gly Ala Pro Leu
 260 265 270
 Phe Val Leu Lys Thr Val Glu Glu Asp His Pro Ile Pro Glu Glu Ile
 275 280 285
 Asp Thr Ala Tyr Lys Asn Lys Val Ala Glu Phe Ala Thr Arg Gly Phe
 290 295 300
 Arg Ser Leu Gly Val Ala Arg Arg Arg Asp Gln Gly Ser Trp Glu Ile
 305 310 315 320
 Leu Gly Ile Met Pro Cys Ser Asp Pro Pro Arg His Asp Thr Ala Lys
 325 330 335
 Thr Ile Ser Glu Ala Lys Ser Leu Gly Leu Ser Ile Lys Met Leu Thr
 340 345 350
 Gly Asp Ala Val Gly Ile Ala Arg Glu Thr Ser Arg Gln Leu Gly Leu
 355 360 365
 Gly Thr Asn Val Tyr Asn Ala Glu Arg Leu Gly Leu Gly Gly Gly Gly
 370 375 380
 Thr Met Pro Gly Ser Glu Val Tyr Asp Phe Val Glu Ala Ala Asp Gly
 385 390 395 400
 Phe Ala Glu Val Phe Pro Gln His Lys Tyr Asn Val Val Glu Ile Leu
 405 410 415
 Gln Gln Arg Gly Tyr Leu Val Ala Met Thr Gly Asp Gly Val Asn Asp
 420 425 430
 Ala Pro Ser Leu Lys Arg Ala Asp Thr Gly Ile Ala Val Glu Gly Ser
 435 440 445
 Ser Asp Ala Ala Arg Ser Ala Ala Asp Ile Val Phe Leu Ala Pro Gly
 450 455 460
 Leu Ser Ala Ile Ile Asp Ala Leu Lys Thr Ser Arg Gln Ile Phe His
 465 470 475 480
 Arg Met Tyr Ala Tyr Val Val Tyr Arg Ile Ala Leu Ser Leu His Leu
 485 490 495

12350

Glu Val Phe Leu Gly Leu Trp Ile Ala Ile Leu Asn Glu Ser Leu Asn
 500 505 510
 Leu Gln Leu Val Val Phe Ile Ala Ile Phe Ala Asp Ile Ala Thr Leu
 515 520 525
 Ala Ile Ala Tyr Asp Asn Ala Pro Tyr Ser Lys Thr Pro Val Lys Trp
 530 535 540
 Asn Leu Pro Lys Leu Trp Gly Met Ser Ile Leu Leu Gly Leu Val Leu
 545 550 555 560
 Ala Ala Gly Thr Trp Val Ala Leu Thr Thr Ile Met Asn Ser Gly Glu
 565 570 575
 Glu Gly Gly Ile Ile Gln Asn Phe Gly Glu Arg Asp Asp Val Leu Ser
 580 585 590
 Leu Glu Ile Ser Leu Thr Glu Asn Trp Leu Ile Phe Ile Thr Arg Ala
 595 600 605
 Asn Gly Pro Phe Trp Ser Ser Ile Pro Ser Trp Gln Leu Thr Gly Ala
 610 615 620
 Ile Leu Val Val His Leu Val Ala Thr Ser Phe Cys Ile
 625 630 635

<210> 31811

<211> 89

<212> PRT

<213> A.fumigatus

<400> 31811

Ala Gln Gly Ala Ala Phe Leu Ala Ala Gly Leu Arg Asp Trp Val Asp
 1 5 10 15
 Phe Gly Val Ile Cys Ala Leu Leu Leu Leu Asn Ala Ser Val Gly Phe
 20 25 30
 Ile Gln Glu Phe Gln Ala Gly Ser Ile Val Asp Glu Leu Lys Lys Thr
 35 40 45
 Leu Ala Leu Gln Ala Ile Val Cys Arg Glu Gly Glu Phe Asn Glu Ile
 50 55 60
 Asp Ala Ser Glu Ile Val Pro Gly Asp Ile Val Arg Ile Glu Glu Val
 65 70 75 80
 Thr Tyr His Gln Ser Ser Asn Phe Arg
 85

<210> 31812

<211> 303

<212> PRT

<213> A.fumigatus

<400> 31812

Ala Asp Asp Lys Pro Gly Arg Tyr Leu Asp Tyr Lys Asn Ile Thr Lys
 1 5 10 15
 Val Ile Gln Pro Gly Lys Leu Ile Tyr Val Asp Asp Gly Ile Leu Ser
 20 25 30
 Phe Glu Val Leu Glu Ile Val Asp Asp Gln Thr Leu Arg Val Arg Cys
 35 40 45
 Leu Asn Asn Gly Asn Ile Ser Ser Arg Lys Gly Val Asn Leu Pro Gly
 50 55 60
 Thr Asp Val Asp Leu Pro Ala Leu Ser Glu Lys Asp Ile Asn Asp Leu
 65 70 75 80
 Lys Phe Gly Val Lys Asn Arg Val Asp Met Ile Phe Ala Ser Phe Ile
 85 90 95

12351

Arg Arg Gly Ser Asp Ile Arg His Ile Arg Glu Val Leu Gly Glu Glu
 100 105 110
 Gly Lys Glu Ile Gln Ile Ile Ala Lys Ile Glu Asn Gln Gln Gly Val
 115 120 125
 Asn Asn Phe Asp Glu Ile Leu Glu Glu Thr Asp Gly Val Met Phe Ala
 130 135 140
 Arg Gly Asp Leu Gly Ile Glu Ile Pro Ala Pro Lys Val Phe Leu Ala
 145 150 155 160
 Gln Lys Met Met Ile Ala Lys Cys Asn Met Lys Gly Lys Pro Val Ile
 165 170 175
 Cys Ala Thr Gln Met Leu Glu Ser Met Thr Tyr Asn Pro Arg Pro Thr
 180 185 190
 Cys Ala Glu Val Ser Asp Val Ala Asn Ala Val Leu Asp Gly Ala Asp
 195 200 205
 Cys Val Met Leu Ser Gly Glu Thr Ala Lys Gly Asn Tyr Pro Thr Glu
 210 215 220
 Ala Val Lys Met Met Ser Glu Thr Cys Leu Leu Ala Glu Val Ala Ile
 225 230 235 240
 Pro His Phe Gln Val Phe Asp Glu Leu Arg Asn Leu Ala Pro Arg Pro
 245 250 255
 Thr Asp Thr Val Glu Ser Ile Ala Met Ala Ala Val Ser Ala Ser Leu
 260 265 270
 Glu Leu Asn Ala Gly Ala Ile Val Val Leu Thr Thr Arg Tyr Val Ile
 275 280 285
 Ser Leu Ser Ser Ala Val Asp Arg Ile Pro Leu Thr Val Asp Pro
 290 295 300

<210> 31813

<211> 119

<212> PRT

<213> A.fumigatus

<400> 31813

Asn Cys Ser Ser Phe Gln Val Ser Pro Cys Leu Pro Asn His His
 1 5 10 15
 Gly His Ser Gln Pro His Gly Arg Pro Gly Lys Phe Asp Leu Val Val
 20 25 30
 Ile Val Gly Gln Met Ser Val Ala Asn Arg Ala Ile Lys Tyr Ser His
 35 40 45
 Leu Tyr Arg Gly Val Trp Pro Ser Thr Phe Pro Asp Thr Lys Pro Asp
 50 55 60
 Phe Asn Val Lys Ile Trp Pro Glu Asp Val Asp Arg Arg Leu Lys Trp
 65 70 75 80
 Gly Ile Ser His Ala Leu Lys Leu Gly Leu Thr Asn Tyr Gly Asp Asn
 85 90 95
 Ile Leu Cys Phe Pro Ser Leu Cys Arg Trp His Gly Asn Pro Tyr Thr
 100 105 110
 Arg Ser Val Leu Val Pro Val
 115

<210> 31814

<211> 83

<212> PRT

<213> A.fumigatus

<400> 31814

12352

Ser Asn Ser Phe Phe Ser Ser Phe Leu Ser Asn Pro Ser Glu Glu Ser
 1 5 10 15
 Phe Lys Met Ala Ala Ser Asn Ser Leu Asp His Leu Ser Asn Arg Met
 20 25 30
 Lys Leu Glu Trp His Ala Lys Leu Asn Thr Glu Met Val Pro Ala Lys
 35 40 45
 Asn Phe Arg Arg Thr Ser Ile Ile Cys Thr Ile Gly Met Ser Glu Leu
 50 55 60
 Leu Asn Leu Ile Leu Glu Tyr Pro His Pro Tyr Glu Leu Phe Gly Leu
 65 70 75 80
 Thr Arg Tyr

<210> 31815

<211> 258

<212> PRT

<213> A.fumigatus

<400> 31815

Gln Arg Tyr Tyr Ile Pro Ser Gly Gln Asp Asn Asn Gly Ser Ser Val
 1 5 10 15
 Glu Leu Lys Thr Gly Ala Asp Gly Ser His Gly Asp Arg Leu Asn Gly
 20 25 30
 Val Ser Gly Ala Gly Ser Lys Val Thr Gln Phe Val Lys Asp Leu Glu
 35 40 45
 Val Arg Asn Ser Asp Leu Cys Lys Gln Ala Gly Leu Arg His His Leu
 50 55 60
 Asp Ser Leu Gly Gly Val Ile Ala Leu Gly Ser Leu Ser Gly Gln His
 65 70 75 80
 Asp Thr Val Ser Ala Val Glu Asn Ser Val Gly Asn Val Arg Tyr Leu
 85 90 95
 Arg Thr Gly Gly Ala Gly Val Val Cys His Gly Leu Glu His Leu Ser
 100 105 110
 Gly Thr Asp Asp Gly Leu Ala Leu His Val Thr Leu Gly Asn His His
 115 120 125
 Leu Leu Gly Gln Glu Asp Leu Gly Arg Arg Tyr Leu Asp Thr Gln Val
 130 135 140
 Thr Thr Gly Glu His Asp Thr Val Ser Leu Leu Glu Asn Leu Ile Glu
 145 150 155 160
 Val Val Asn Thr Leu Leu Val Leu Asp Leu Gly Asn Asn Leu Asn Leu
 165 170 175
 Leu Ala Leu Leu Ala Lys Asp Phe Thr Asn Val Thr Asn Val Ala Ser
 180 185 190
 Ala Thr Asp Lys Arg Gly Glu Asp His Val Asn Pro Ile Leu Asn Thr
 195 200 205
 Glu Leu Glu Ile Val Asp Ile Leu Phe Arg Lys Ser Gly Lys Ile Asn
 210 215 220
 Val Ser Ala Gly Gln Val Asp Thr Leu Ser Arg Arg Asp Val Ala Ile
 225 230 235 240
 Val Gln Ala Pro Asp Thr Lys Gly Leu Ile Val Asn Asn Leu Glu His
 245 250 255
 Leu Lys

<210> 31816

<211> 92

12353

<212> PRT

<213> A.fumigatus

<400> 31816

```

Cys Pro Ser Pro Ser Pro Gln Pro Gln Pro Pro Ala Thr Ser Leu Thr
1          5          10          15
Gly Tyr Trp Leu Pro Pro Asp Ile Ala Ser Lys Thr Asp Leu Val Val
          20          25          30
Gly Ser Gly Ala Ala Lys Ala Thr Lys Thr Asp Leu Leu Asp Pro Ser
          35          40          45
Arg Val Leu Arg Thr Ser Val His Ser Pro Pro Ser Leu Thr Ser Thr
          50          55          60
Gly Leu Pro Tyr Lys Val Leu Leu Cys Phe Leu Thr Thr Gly Ile Asn
65          70          75          80
Val Ala Glu Trp Leu Tyr Arg Leu Ser Pro Arg Tyr
          85          90

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<210> 31817

<211> 64

<212> PRT

<213> A.fumigatus

<400> 31817

```

Ser Ala Arg Leu Ala Gly Ile Asn Val Gly Ala Pro Ala Arg Pro Leu
1          5          10          15
Pro Ser Ala Asp Phe Gly Leu Ile Gly Leu Ala Val Met Gly Gln Asn
          20          25          30
Leu Ile Leu Asn Val Ala Asp His Gly Phe Thr Val Cys Ala Tyr Asn
          35          40          45
Arg Thr Thr Ser Lys Val Asp Arg Phe Leu Ala Asn Glu Gly Gln Gly
          50          55          60

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<210> 31818

<211> 66

<212> PRT

<213> A.fumigatus

<400> 31818

```

Ile Ile Thr Pro Ser Ile Lys Ile Lys Val Leu Leu Ala Val Ile Ala
1          5          10          15
Lys Ala Trp Leu Leu Cys Thr Phe Asn Thr Ile Ser Glu Gly Thr Phe
          20          25          30
Val Gly Ile Leu Val Cys Thr Leu Tyr Ser Ala Phe Ser Thr Leu Asp
          35          40          45
His Pro Pro Pro Gly Phe Cys Arg Ile Trp Ser Ser Thr Leu Val Ala
          50          55          60
Val Ala
65

```

<210> 31819

<211> 61

<212> PRT

<213> A.fumigatus

<400> 31819

```

Phe Asn Phe Leu Asn Thr Ser Gly Asp Asn Gly Arg Asn Asp Ala Leu

```

12354

1		5		10		15									
Phe	Met	Leu	His	Ala	Leu	Phe	Gln	Ile	Ser	Ala	Lys	Gln	Gly	Cys	Tyr
		20					25					30			
Lys	Val	Ser	Phe	Ile	Val	Arg	Gly	Ile	Ser	Lys	Cys	Arg	His	Ile	Pro
	35					40					45				
Val	Gly	Ala	Arg	Ser	Ala	Arg	Ala	Gly	Thr	Leu	Ser	Val			
	50					55					60				

<210> 31820

<211> 375

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (3), (4), (5)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31820

Pro	Tyr	Xaa	Xaa	Xaa	Ser	Ala	Arg	Phe	Ala	Ser	Leu	Ala	Thr	Val	Val
1				5					10					15	
Glu	Asp	Asp	Ser	Pro	Val	Asn	Gly	Thr	Thr	Pro	Val	Pro	Asp	Ala	Gly
			20					25					30		
Ser	Pro	Ser	Gly	Ser	Pro	Gly	Pro	Ser	His	Ser	Asp	Glu	Val	Ala	Trp
		35				40					45				
Leu	Thr	Ser	Glu	Leu	Arg	Lys	Glu	Arg	Gln	Arg	Val	Leu	Asp	Lys	Glu
	50					55					60				
Gln	Lys	Ile	Ala	Glu	Met	Glu	Ala	Val	Leu	Asn	Ala	Thr	Ala	Asp	Val
65					70					75				80	
Lys	Gln	Val	Asn	Thr	Glu	Leu	Asn	Glu	Lys	Arg	Ser	Thr	Met	Val	Val
			85						90					95	
Leu	Asp	Ala	Lys	Lys	Glu	Ile	Val	Met	Arg	Glu	Leu	Ser	Val	Leu	Thr
		100						105					110		
Asp	His	Leu	Glu	Ala	Glu	Lys	Arg	Gly	Ala	Ser	Gly	Pro	Leu	Asp	Leu
	115						120					125			
Gly	Lys	Ile	Thr	Asn	Lys	Val	Leu	Arg	Asp	Phe	Val	Glu	Ser	Leu	His
	130					135					140				
Lys	Leu	Lys	Glu	Ser	Phe	Thr	Pro	Gln	Ile	Glu	Glu	Leu	Val	Gln	Lys
145					150					155				160	
Arg	Asn	Asp	Ala	Ala	Glu	Glu	Leu	Ala	Asn	Leu	Asn	Arg	Met	Lys	Asp
			165						170					175	
Lys	Ser	Phe	Gln	Glu	Phe	Glu	Gln	Leu	Ser	Ser	Lys	Asn	Ala	Gln	Leu
			180					185					190		
Ala	Glu	Leu	Asn	Asn	Gln	Leu	Val	His	Gln	Ile	Gln	Glu	Leu	Tyr	Lys
	195						200					205			
Ala	Asn	Ser	Thr	Glu	Gly	Asn	Arg	Gly	Ala	Asn	Gly	Leu	Gly	Ile	Tyr
	210					215					220				
Ser	His	Gly	Lys	Glu	Lys	Ser	Leu	Ser	Ala	Ile	Asp	Ala	Leu	Lys	Ala
225					230					235				240	
Ala	Asn	Asn	Asp	Leu	Ser	Ala	Ser	Val	Ser	Ala	Thr	Asn	Leu	Ser	Glu
			245						250					255	
Glu	Ala	Glu	Pro	Ala	Thr	Val	Val	Pro	Gly	Pro	Gln	Val	Val	Ser	Ile
		260						265					270		
Arg	Lys	Gly	Gln	Pro	Arg	Lys	Phe	Asn	Trp	Lys	Lys	Gly	Gly	Gln	Asn
	275						280					285			
Val	Ala	Lys	Gly	Val	Thr	Lys	Gly	Ile	Lys	Gly	Ala	Phe	Met	Ser	Ser

12355

290 295 300
 Asp Ser Asn Ala Ala Gln Asp Ala Asn Pro Gly Leu Pro Arg Ser Gln
 305 310 315 320
 Thr Gln Asp Pro Ser Arg Gln Gly Phe Gly Phe Phe Gly Asn Gln Lys
 325 330 335
 Ser Lys Gln Ala Gly Thr Arg Met Pro Gln Thr Asp Ser Val Pro Ala
 340 345 350
 Leu Ala Asp Leu Ala Pro Thr Gly Met Cys Arg His Phe Asp Met Pro
 355 360 365
 Leu Thr Ile Lys Leu Thr Leu
 370 375

<210> 31821
 <211> 170
 <212> PRT
 <213> A.fumigatus

<400> 31821
 Pro His Trp Ile Gly Met Asp Met Glu Gly Ile Tyr Arg Lys Ser Gly
 1 5 10 15
 Ala Ser Ser Ala Val Gln Ser Ile Arg Glu Gly Phe Glu Arg Phe Pro
 20 25 30
 Gln Asp Tyr Asp Ile Ser Asp Pro Asp Leu Asp Ile His Ala Val Thr
 35 40 45
 Ser Ala Leu Lys Gln Tyr Phe Arg Lys Leu Pro Thr Pro Leu Ile Thr
 50 55 60
 Tyr Glu Val Tyr Glu Lys Ile Ile Asp Thr Gly Glu Ile Thr Ser Ala
 65 70 75 80
 Glu Ala Arg Ile Ser Val Leu Gln Lys Ser Leu Ala Glu Leu Pro Arg
 85 90 95
 Val His Gln Asp Val Leu Glu Phe Leu Val Phe His Leu Lys Arg Val
 100 105 110
 Val Glu Arg Glu Lys Glu Asn Leu Met Thr Ser Gln Asn Ile Ala Val
 115 120 125
 Val Phe Ala Pro Thr Ile Met Arg Pro Glu Ser Leu Ala Arg Glu Met
 130 135 140
 Thr Asp Val Gln Lys Lys Asn Glu Val Leu Lys Phe Leu Val Asp Asn
 145 150 155 160
 Cys Gln Glu Val Phe Met Gly Met Gln Ser
 165 170

<210> 31822
 <211> 70
 <212> PRT
 <213> A.fumigatus

<400> 31822
 Tyr Ala Ser Asp Asn Lys Ala Asn Leu Ile Ala Ala Leu Phe Gly Thr
 1 5 10 15
 Asp Leu Glu Gln Arg Met Glu His Glu Lys Ser Ile Ile Pro Ala Ile
 20 25 30
 Val Thr Arg Cys Ile Gln Glu Val Glu Leu Arg Gly Glu Ile Leu Gly
 35 40 45
 Ala Cys Cys Ser Glu Val Thr Lys Leu Thr Thr Leu Asp Arg Asn Gly
 50 55 60
 Tyr Gly Arg Asn Leu Ser

65

70

<210> 31823

<211> 637

<212> PRT

<213> A.fumigatus

<400> 31823

Lys Ala Ile Lys Trp Arg Asn Asn Leu Gln Pro Asp Ser Asn Thr Gln
 1 5 10 15
 Arg Thr Gly Arg Lys Ala Ser Thr Lys Thr Gln Val Gly Asp Ala Leu
 20 25 30
 Ser His Phe Leu Tyr Cys Trp Phe Gly Lys Ile Ile Thr Lys Ser Met
 35 40 45
 Lys Met Thr Asp Arg Pro Ser Ser Ala Gly Leu Glu Glu Pro Val Asn
 50 55 60
 Leu Val Ala Gln Asn Gly Gln Ala Val Asp Ser Val Pro Ser Arg Arg
 65 70 75 80
 Ser Ser Ser Arg Ser Thr Glu Ala Pro Glu Ala Ser Leu Pro Ala Pro
 85 90 95
 Thr Glu Ser Ala Asp Val Lys Gln Ala Val Ala Lys Pro Pro Ser Ala
 100 105 110
 Lys Leu Ser Leu Pro Asn Gly Glu Val Ala Asp Ala Gln Thr Ser Leu
 115 120 125
 Arg His Thr Phe Pro His Leu Tyr His Ser Ser Ser Ala Ser Arg Ser
 130 135 140
 Pro Trp Thr Gly Asn Ser Ser Ser Ser Ile Gln Ala Leu Asn Glu Asp
 145 150 155 160
 Thr Val Val Asp Ala Arg Ser Asp His Gly Leu Trp Thr Lys Ala Ser
 165 170 175
 Leu Gly Arg Arg Met Ser His Arg Ser Ala Thr Asp Ala Gln Pro Ala
 180 185 190
 Asp Tyr Pro Val Tyr Pro Asp Gln Ser Tyr Ala Val Leu Gln Ser Gln
 195 200 205
 Ile His Pro Thr Tyr His Pro Pro Phe Leu Arg Ser Arg Arg Ser Tyr
 210 215 220
 Pro Ala Arg Thr Glu Ser Leu Gly Arg Leu Val Thr Pro Arg Thr Ala
 225 230 235 240
 Arg Thr Ala Gly Asn Thr Pro Val Ser Ser Pro Gly Leu Phe Ser Val
 245 250 255
 Asn Ser Pro Asn Ser Thr Pro Pro Ala Asn Ser Asp Asn Glu Gly Arg
 260 265 270
 Ile Ser Ser Pro Tyr Leu His Pro Thr His Leu Gln Pro Pro Lys Glu
 275 280 285
 Thr His Thr Ala Glu Val Asp Arg Asp Leu Val Thr Gly Asn Lys Leu
 290 295 300
 Ile Asn Gln Tyr Glu Ile Leu Glu Glu Leu Gly Arg Gly Glu His Gly
 305 310 315 320
 Lys Val Lys Leu Gly Arg His Val Thr Thr Arg Gln Lys Val Ala Ile
 325 330 335
 Lys Ile Val Gln Arg Tyr Ser Lys Arg Arg Arg Leu Gly Lys Leu Gly
 340 345 350
 Asn Pro Glu Asp Lys Val Lys Lys Glu Val Ala Ile Leu Lys Lys Ala
 355 360 365
 Arg His Pro Asn Val Val Ser Leu Leu Glu Val Ile Asp Asp Pro Asn
 370 375 380

12357

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Arg Gln Lys Val Tyr Ile Val Leu Glu Phe Val Glu Asn Gly Glu Ile
385                      390                      395                      400
Ile Trp Arg Lys Lys Gly Leu Arg Glu Ile Val Gln Val Asp Lys Arg
                      405                      410                      415
Arg Leu Glu Arg Glu Lys Ala Gly Ile Pro Glu Thr Pro Ser Phe Trp
                      420                      425                      430
Glu Glu Cys Arg Gln Tyr Val Lys Thr Ala Gln Arg Leu Arg Arg Gln
                      435                      440                      445
Arg Glu Lys Ala Arg Glu Arg Arg Gln Met Lys Ala Val His Ala Gln
                      450                      455                      460
Gln Ala Pro Ile Pro Ala Trp Ser Leu Glu His Gly Ala Glu Ser Asp
465                      470                      475                      480
Glu Glu Glu Glu Ala Asp Pro Ala Met Thr Arg Thr Ile Ser Arg Ser
                      485                      490                      495
Ile Ala Ser His Asp Glu Thr Gln Glu Ser Pro Ser His Ser Leu Ala
                      500                      505                      510
Ser Ala His Asp Ser Ala Leu Ala Ile Glu Gly Thr Met Tyr Gly
                      515                      520                      525
Pro Tyr Ala Asp Tyr Ser Leu Asp Arg Arg Phe Ser Thr Ala Ser Ser
                      530                      535                      540
Ser Met Gly Tyr Ala Pro Ser Glu Pro Glu Trp Phe Ser Asp Asp Asp
545                      550                      555                      560
Asp Met Ser Tyr Val Pro Cys Leu Thr Val Asn Glu Ala Arg Asn Ala
                      565                      570                      575
Phe Arg Asp Ser Leu Leu Gly Leu Glu Tyr Leu His Tyr Gln Gly Ile
                      580                      585                      590
Ile His Arg Asp Ile Lys Pro Ala Asn Leu Leu Val Thr Ser Asn His
                      595                      600                      605
Arg Val Lys Ile Ser Asp Phe Gly Val Ser Tyr Leu Gly Arg Pro Met
610                      615                      620
Val Ser Pro Arg Gly Trp Lys Asp Pro Arg Trp Arg His
625                      630                      635

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<210> 31824

<211> 195

<212> PRT

<213> A.fumigatus

<400> 31824

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Leu Arg Ile Ala Arg Ile Leu Arg Pro Pro Trp Val Lys Thr Ser Leu
1                      5                      10                      15
Gln Trp Arg Glu His Gln Ile Asn Arg Phe Lys Pro Gly Lys Ser Ile
20                      25                      30
Val Gly Ala His Ser Val Glu Glu Phe Cys Ala Lys Leu Lys Arg Pro
35                      40                      45
Arg Arg Ile Met Leu Leu Val Met Ala Gly Lys Pro Val Asp Asp Phe
50                      55                      60
Ile Glu Ser Leu Leu Pro His Leu Glu Glu Gly Asp Ile Ile Ile Asp
65                      70                      75                      80
Gly Gly Asn Ser His Phe Pro Asp Ser Asn Arg Arg Thr Lys Tyr Leu
85                      90                      95
Lys Glu Lys Gly Ile Arg Phe Val Gly Ser Gly Val Ser Gly Gly Glu
100                      105                      110
Glu Gly Ala Arg Tyr Gly Pro Ser Leu Met Pro Gly Gly Asn Glu Glu
115                      120                      125
Ala Trp Pro Phe Ile Lys Asp Ile Phe Gln Ser Ile Ala Ala Asn Ser

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12358

130 135 140
 Asp Gly Glu Ala Cys Cys Asp Trp Val Gly Asp Glu Gly Ala Gly His
 145 150 155 160
 Phe Val Lys Met Val His Asn Gly Ile Glu Tyr Gly Asp Met Gln Leu
 165 170 175
 Ile Cys Glu Val Arg Arg Val Leu Ala Pro Ile Ile Cys Arg Asn Ser
 180 185 190
 Pro Leu Thr
 195

<210> 31825
 <211> 158
 <212> PRT
 <213> A.fumigatus

<400> 31825
 Gln Gln Ala Tyr Asp Ile Met Lys Arg Gly Leu Gly Met Pro Val Asn
 1 5 10 15
 Glu Ile Ala Asp Val Phe Ala Lys Trp Asn Lys Gly Val Leu Asp Ser
 20 25 30
 Phe Leu Ile Glu Ile Thr Arg Asp Val Leu Tyr Phe Asn Asp Asn Asp
 35 40 45
 Gly Thr Pro Leu Val Glu Lys Ile Leu Asp Lys Ala Gly Gln Lys Gly
 50 55 60
 Thr Gly Lys Trp Thr Ala Ile Asn Ala Leu Asp Leu Gly Met Pro Val
 65 70 75 80
 Thr Leu Ile Gly Glu Ala Val Phe Ala Arg Cys Leu Ser Ala Ile Lys
 85 90 95
 Asp Glu Arg Ile Arg Ala Ser Ser Leu Leu Asp Gly Pro Thr Pro Gln
 100 105 110
 Phe Thr Gly Asp Lys Gln Ala Phe Ile Asp Asp Leu Glu Gln Ala Leu
 115 120 125
 Tyr Ala Ser Lys Ile Ile Ser Tyr Ala Gln Gly Phe Met Leu Ile Gln
 130 135 140
 Glu Val Arg Cys Cys Ser Ser His Ser Ala Ala Cys Asn Gly
 145 150 155

<210> 31826
 <211> 103
 <212> PRT
 <213> A.fumigatus

<400> 31826
 Ala Ala Arg Glu Tyr Gly Trp Lys Leu Asn Lys Pro Ser Ile Ala Leu
 1 5 10 15
 Met Trp Arg Gly Gly Cys Ile Ile Arg Ser Val Phe Leu Lys Asp Ile
 20 25 30
 Thr Asn Ala Tyr Arg Asn Asn Pro Asp Leu Glu Asn Leu Phe Asp
 35 40 45
 Asp Phe Phe Lys Ala Ala Ile Gln Lys Ala Gln Gln Gly Trp Arg Asn
 50 55 60
 Val Val Ser Lys Gly Ala Leu Trp Gly Ile Pro Thr Pro Ala Phe Ser
 65 70 75 80
 Thr Ala Leu Ser Phe Tyr Asp Gly Tyr Arg Thr Arg His Leu Pro Ala
 85 90 95
 Asn Leu Leu Gln Ala Gln Ala

100

<210> 31827
 <211> 151
 <212> PRT
 <213> A.fumigatus

<400> 31827

Ala	Ala	Ser	Tyr	Leu	Leu	Asp	Glu	His	Glu	Ala	Leu	Ser	Val	Gly	Asp
1				5					10					15	
Asp	Leu	Gly	Gly	Ile	Gln	Ser	Leu	Leu	Glu	Val	Val	Asp	Glu	Ser	Leu
		20						25					30		
Leu	Val	Pro	Gly	Glu	Leu	Gly	Ser	Arg	Ala	Ile	Glu	Glu	Ala	Ala	Gly
		35					40					45			
Thr	Asp	Thr	Leu	Val	Leu	Asp	Gly	Ala	Gln	Ala	Thr	Gly	Glu	Asp	Gly
	50					55					60				
Leu	Thr	Asp	Gln	Gly	Asn	Gly	His	Ala	Lys	Val	Glu	Ser	Val	Asp	Gly
65					70					75				80	
Gly	Pro	Leu	Ala	Gly	Thr	Leu	Leu	Ala	Arg	Leu	Val	Lys	Asp	Leu	Leu
				85					90					95	
Asp	Glu	Gly	Ser	Ala	Ile	Val	Val	Val	Glu	Val	Glu	Asn	Val	Thr	Ser
			100					105					110		
Asp	Leu	Asn	Gln	Glu	Arg	Val	Gln	His	Thr	Leu	Val	Pro	Leu	Ser	Glu
		115					120					125			
Asp	Ile	Gly	Asp	Leu	Val	Asp	Gly	His	Ala	Gln	Thr	Thr	Leu	His	Asp
	130					135					140				
Val	Ile	Ser	Leu	Leu	Ser	Cys									
145						150									

<210> 31828
 <211> 192
 <212> PRT
 <213> A.fumigatus

<400> 31828

Trp	Ala	Val	Ala	Ala	Asp	Tyr	Arg	Ser	Lys	Asn	Ala	Ser	Tyr	Leu	Ala
1				5					10					15	
Asp	Gln	Leu	His	Val	Thr	Val	Leu	Asp	Thr	Val	Val	Asp	His	Leu	Asp
		20						25					30		
Glu	Val	Thr	Ser	Ala	Phe	Val	Thr	His	Pro	Val	Thr	Ala	Ser	Leu	Ala
		35					40					45			
Val	Ala	Ile	Gly	Gly	Asn	Ala	Leu	Glu	Asp	Val	Leu	Asp	Glu	Gly	Pro
	50					55					60				
Gly	Leu	Phe	Val	Ala	Thr	Gly	His	Gln	Arg	Gly	Thr	Val	Ala	Gly	Thr
65					70					75				80	
Leu	Leu	Thr	Thr	Gly	Asn	Thr	Ala	Ala	Asp	Glu	Ala	Asp	Ala	Leu	Leu
			85						90					95	
Leu	Gln	Val	Leu	Gly	Ala	Ala	Val	Ala	Val	Gly	Glu	Val	Gly	Val	Thr
		100						105					110		
Thr	Ile	Asp	Asp	Asp	Val	Thr	Leu	Lys	Val	Gly	Glu	Glu	Arg	Leu	
	115					120					125				
Asn	Glu	Val	Val	Asp	Arg	Leu	Ala	Ser	His	Asn	Gln	Gln	His	Asp	Thr
	130					135					140				
Ala	Arg	Ala	Leu	Gln	Leu	Gly	Ala	Glu	Phe	Leu	Asp	Gly	Val	Ser	Thr
145					150					155				160	
Asp	Asn	Gly	Leu	Ala	Trp	Phe	Lys	Ser	Val	Asn	Leu	Val	Phe	Pro	Pro

[illegible]

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<210> 31829
<211> 252
<212> PRT
<213> A.fumigatus
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<210> 31830
<211> 108
<212> PRT
<213> A.fumigatus
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<400> 31830															
His	Leu	Thr	Phe	Ser	Pro	Glu	Phe	Thr	Ala	Ala	Val	Glu	Ala	Lys	Gln
1				5					10					15	
Val	Ala	Gln	Gln	Glu	Ala	Gln	Arg	Ala	Ala	Phe	Leu	Val	Asp	Lys	Ala
			20					25					30		
Arg	Gln	Glu	Lys	Gln	Ala	Phe	Ile	Val	Arg	Ala	Gln	Gly	Glu	Ala	Arg
		35					40					45			
Ser	Ala	Glu	Leu	Ile	Gly	Asp	Ala	Ile	Lys	Asn	Ser	Lys	Ser	Tyr	Ile

12361

50		55		60	
Glu	Leu	Arg	Arg	Ile	Glu
65		70		75	80
Glu	Ser	Gly	Gly	Lys	Asn
		85		90	95
Leu	Asn	Val	Asn	Ala	Ser
		100		105	

<210> 31831
 <211> 297
 <212> PRT
 <213> A.fumigatus

<400> 31831

Tyr	Val	Arg	Val	His	Ser	Pro	Leu	Leu	Ser	Ser	Leu	Ala	Asn	Glu	Phe
1			5						10					15	
Ile	Ser	Asp	Leu	Thr	Glu	Glu	Gln	Val	Lys	Asp	Ile	Leu	Ser	Ser	Ala
		20					25						30		
Gly	Thr	Val	Thr	Lys	Phe	Arg	Leu	Met	Met	Asn	Pro	Glu	Thr	Gly	Lys
		35					40					45			
Pro	Lys	Gly	Tyr	Gly	Phe	Ala	Asp	Phe	Ala	Asp	Ala	Asp	Ala	Ala	Ala
	50					55				60					
Ser	Ala	Val	Arg	Asn	Leu	Asn	Asp	Phe	Glu	Ile	Met	Gly	Arg	Lys	Ile
65				70					75					80	
Arg	Val	Asp	Trp	Pro	His	Asn	Asn	Glu	Lys	Asp	Ser	Val	Pro	Pro	Asp
			85					90					95		
Tyr	Ser	Gln	Thr	Ser	Gln	Met	Pro	Ser	Gln	Asp	Val	Gln	Ala	Gly	Gln
		100					105					110			
Gln	Pro	Ser	Ala	Pro	Leu	Pro	Pro	Leu	Pro	Pro	Gly	Val	Glu	Val	Pro
	115					120						125			
Pro	His	Leu	Asp	Cys	Pro	Asn	Ala	Ile	Ser	Gln	Thr	Leu	Ser	Ser	Leu
	130					135					140				
Pro	Pro	Asn	Gln	Leu	Leu	Asp	Val	Leu	Ser	Gln	Met	Lys	Ser	Leu	Ala
145				150					155					160	
Met	Thr	Asp	Pro	Ala	Arg	Ala	Thr	Glu	Leu	Leu	Arg	Gln	Ala	Pro	Gln
			165					170						175	
Leu	Ala	Tyr	Ala	Ile	Phe	Gln	Ala	Leu	Leu	Leu	Met	Asn	Leu	Val	Asp
		180					185					190			
Tyr	Ser	Thr	Leu	Gly	Ala	Val	Val	Glu	Gln	Ala	Thr	Gln	Pro	Thr	Ala
		195					200					205			
Ala	Ala	Ala	Pro	Ser	Ala	Pro	Pro	Ala	Ala	Gln	Ala	Phe	Gln	Pro	Phe
	210					215				220					
Ser	Ala	Val	Pro	Gly	Gln	Ile	Ser	Thr	Pro	Pro	Met	Val	Asn	Thr	Pro
225				230					235					240	
Phe	Ala	Pro	Gln	Pro	Ala	Ala	Gln	Ala	Ala	Pro	Gln	Gln	Gln	Val	Pro
			245					250						255	
Ser	Gln	Glu	Glu	Leu	Leu	Gln	Gln	Val	Leu	Ser	Met	Pro	Gln	Ser	Ala
		260					265						270		
Ile	Asp	Ala	Leu	Pro	Pro	Met	Glu	Arg	Asn	Gln	Ile	Met	Leu	Leu	Arg
	275					280						285			
Gln	Gln	Leu	Met	Gln	Gly	Ala	Met	Arg							
	290					295									

<210> 31832
 <211> 65
 <212> PRT

<213> A.fumigatus

<400> 31832

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Leu Thr Ile Gln Arg Leu Ala Lys Ile Cys Cys Ile Arg Lys Glu Ser
1           5           10           15
Lys Gly Asn Asn Thr Ile Ile Phe Thr Lys Leu Gln Glu Phe Asn Ser
           20           25           30
Glu Met Arg Ala Ile Ala Ile Lys Tyr Lys Tyr Leu Phe Leu Pro Leu
           35           40           45
Leu Tyr Ile Leu Ile Tyr Tyr Ile Asn Lys Ala Leu Lys Leu Leu Asn
           50           55           60
Ser
65

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<210> 31833

<211> 467

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (341), (346)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31833

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Pro Val Met Lys Thr Arg Tyr Arg Thr Leu Lys His Val Ala Gln Tyr
1           5           10           15
Ser Pro Leu Leu Pro Glu Ser Val Lys Arg Thr Ile Ala Gln Thr Pro
           20           25           30
Pro Gln Gln Ser Ile Lys Gln Arg Phe Thr Pro Asp Gln Leu Pro Leu
           35           40           45
Ser Glu Leu Pro Met Leu Leu Asp Lys Arg Leu Thr Leu Asp Val Pro
           50           55           60
Val Tyr Thr Val Trp Gly Ala Cys Glu Asp Val Arg Val Leu Glu Lys
65           70           75           80
Phe Arg Ser Gly Glu Tyr Lys Val Asn Asn Leu His Ile Ile Asp Glu
           85           90           95
Ala Asn Ser Arg Leu Leu Asp Ile Gly Gly Val Lys Leu Arg Leu Leu
           100          105          110
Gly Leu Gly Gly Ala Val Val Met His Lys Leu Phe Asp Asn Gly Glu
           115          120          125
Gly Lys Thr Thr Ile Ala Gly Gly Gln Gly Thr Met Trp Thr Thr Leu
           130          135          140
Leu Gln Met Gly Glu Leu Ile Asp Thr Ala Asn Arg Val Tyr Asp Pro
145          150          155          160
Ser Glu Thr Arg Ile Phe Val Thr His Ala Ser Pro Ala Arg Glu Gly
           165          170          175
Met Leu Asn Gln Leu Ser Val Thr Leu Lys Ala Asp Phe Ser Ile Ser
           180          185          190
Ala Gly Leu His Phe Arg Tyr Gly Ser Ser Tyr Asn Glu Phe Ser Val
           195          200          205
Asn Pro Ser Leu Asp His Tyr Arg Gly Lys Leu Ala Ala Ser Lys Ala
           210          215          220
Ser Phe Asn Asp Val Trp Glu Thr Val Arg Gly Glu Val Glu Ala Ala
225          230          235          240
Ile Ser Ser Asn Glu Ala Gln Lys Thr Leu Leu Asp Asn Ala Leu Asp

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12363

245 250 255
 Val Val Gln Arg Met Pro Thr Val Ala Asn Gly Gly Asn Pro Phe Gly
 260 265 270
 Gly Pro Thr Ala Pro Gly Asn Ala Ala Gly Gln Val Asp Glu Ser Ala
 275 280 285
 Phe Lys Asn Met Trp Asn Phe Asn Leu Ala Asp Ala Ala Phe Gly Phe
 290 295 300
 Leu Val Leu Glu Ile Glu Gly Gly Arg Ile Ala Thr Glu Met Arg Ala
 305 310 315 320
 Gln Gly Phe Asn Phe Ala His Arg Thr Gly Lys Pro Gln Val Ala Ala
 325 330 335
 Gly Gln Thr Val Xaa Gly Gly Leu Pro Xaa Ser Pro Ala Thr Thr Ala
 340 345 350
 Arg Val Pro Asn Ala Thr Pro Pro Gln Phe Gly Gln Ala Pro Pro Ala
 355 360 365
 Pro Ala Arg Ala Ala Gly Thr Ala Gln Gln Gln Ile Gln Gly Lys Gly
 370 375 380
 Pro Ala Ala Gly Ser Asn Ser Ala Ser Pro Val Pro Val Ile Pro Asn
 385 390 395 400
 Pro Ala Thr Pro His Ala Leu Cys Trp Ala Pro His Leu Asn Pro Met
 405 410 415
 Leu Leu Pro Arg Lys Lys Ala Gly Thr Ser Asn Pro Thr Glu Leu Ala
 420 425 430
 Asn Gln Lys Asn Pro Arg Asn Pro Leu Cys Pro Gln Gly Lys Lys Asn
 435 440 445
 Pro Thr Thr Glu Trp Phe Leu Ser Lys Phe Asn Lys Gln Thr Gly Gly
 450 455 460
 Ser Gly Ile
 465

<210> 31834

<211> 106

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (32)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31834

Pro Gly Leu Gly Pro Gly Leu Ile Val Ser Arg Trp Cys Arg Glu Thr
 1 5 10 15
 Ser Ser Lys Gly Met Thr Tyr Gln Lys Arg Asp Ile Lys Asp Pro Xaa
 20 25 30
 Leu Ser Ala Ser Tyr Val Ala His Thr Lys Lys Lys Ile Gly Thr Thr
 35 40 45
 Ala Ala Lys Asp Leu Asn Arg Phe Glu Thr Glu Cys Cys Asn Ala Val
 50 55 60
 Ala Pro Pro Gly Ser Gln Val Thr Leu Ser Gly Lys Arg Lys Asp Leu
 65 70 75 80
 Ser Lys Pro Leu Tyr Arg Cys Asn Asn Trp Leu Asp Asp Val Ile Ser
 85 90 95
 Leu Ala Phe Gln Lys Gly Ile Phe Glu Pro
 100 105

<210> 31835
 <211> 70
 <212> PRT
 <213> A.fumigatus

<400> 31835
 Val Glu Val Leu Lys Ser Lys Leu Asn His Met Ile Lys Glu Ala Thr
 1 5 10 15
 Thr Ser Gln Asp Tyr Glu Phe Gly Pro Asn Leu Ser Lys Lys Pro Gly
 20 25 30
 Thr Thr Ser Lys Ile Gly Met Asn Asn Met Phe Asn Ser Thr Lys Val
 35 40 45
 Phe Pro Leu Pro Arg Val Pro Ile Tyr Tyr Thr Leu Ala Ala Arg Ile
 50 55 60
 Leu Val His Pro Thr Ala
 65 70

<210> 31836
 <211> 439
 <212> PRT
 <213> A.fumigatus

<400> 31836
 Ala Asp Ile Pro Gln Asn Leu Val Trp Ser Gly Trp Gly Asn Ser Gly
 1 5 10 15
 Pro Gly Asn Ala His Gly Met His Val Cys Lys Tyr Lys Gly Ala Asn
 20 25 30
 His Leu Cys Phe Phe Gln Gly Ile Gln Gln Asn Gly Tyr Cys Arg Gly
 35 40 45
 His Gly Val Ile Met Asp Asn Arg Tyr Arg Ile Val Lys Thr Val Thr
 50 55 60
 Pro Gly Gly Gly Ile Ala Ser Ser Asp Met His Glu Phe Arg Leu Val
 65 70 75 80
 Asn Asp Gly Lys Thr Ala Leu Met Thr Val Tyr Gln Gln Arg Gln Phe
 85 90 95
 Asp Met Ser Leu Trp Asn Leu Arg Met Gly Met Gly Trp Leu Met Glu
 100 105 110
 Ser Ile Phe Gln Glu Ile Asp Val Glu Thr Asn Gln Val Leu Phe Glu
 115 120 125
 Trp Arg Ser Leu Asp His Val Asp Pro Ser Val Ser Tyr Thr Tyr Pro
 130 135 140
 Ser Ser Thr Asp Thr Ser Gly Thr Gly Phe Glu Pro Arg Ser Pro Trp
 145 150 155 160
 Asp Tyr Phe His Ile Asn Ser Val Asp Lys Asn Lys Asp Gly Asp Tyr
 165 170 175
 Leu Ile Ser Ser Arg His Thr Ser Cys Ile Tyr Lys Ile Ser Gly Lys
 180 185 190
 Asp Gly Ser Ile Leu Trp Arg Leu His Gly Ala Asn Pro Ser Phe Lys
 195 200 205
 Asn Ile Asn Phe Ser Phe Ser Gln Gln His Asp Ala Arg Trp Leu Gly
 210 215 220
 Glu Asn Ala Thr His Thr Leu Leu Ser Leu Tyr Asn Asn Gly Tyr Asn
 225 230 235 240
 Gly Tyr Asn Gln Thr His Pro Tyr Ser Ser Gly Met Ile Ile Leu Ile
 245 250 255
 Asp His Val Asn Asn Thr Ala Thr Gln Ile Arg Glu Tyr Lys Pro Leu

12365

260	265	270
Asn Asp Asp Met Leu Ser Ser Ser Gln Gly Asn Met Gln Val Leu Pro		
275	280	285
Asn Arg Asn Val Phe Ile Gly Trp Gly Asn Asn Ala Tyr Ile Ser Glu		
290	295	300
His Asp Glu Gln Gly Lys Leu Val Phe Trp Gly Tyr Ile Asp Lys Asp		
305	310	315
Lys Ile Met Asn Tyr Arg Ala Leu Lys Phe Glu Trp Glu Gly Asn Pro		
325	330	335
Thr Asp Val Pro Ala Leu Trp Thr Tyr Ala Lys Thr Asn Asp Gly Phe		
340	345	350
Ser Pro Thr Thr Phe Tyr Val Ser Trp Asn Gly Ala Thr Arg Val Lys		
355	360	365
His Trp Arg Phe Tyr Gly Ala Ala Asn Ser Thr Gly Pro Tyr Glu Leu		
370	375	380
Leu Ser Gln Val Ala Lys Gln Gly Ile Gln Thr Thr Tyr Thr Asn Ala		
385	390	395
Thr Phe Tyr Pro Trp Ser Tyr Val Glu Ala Val Asp Gly Gln Gly Thr		
405	410	415
Val Leu Gly Lys Ser Arg Asn Gln Phe Thr Phe Thr Pro Ser Pro Glu		
420	425	430
Leu Pro Arg Leu Leu Arg Glu		
435		

<210> 31837
 <211> 74
 <212> PRT
 <213> A.fumigatus

<400> 31837
 Leu Leu Phe Val Leu Ser Ile Pro Ser Ser Ser Leu Pro Ser Leu Leu
 1 5 10 15
 Phe Ser Ser Ser Ala His Ser Pro Pro Phe Leu Phe Phe Leu Tyr Ile
 20 25 30
 Thr Leu Phe Phe Phe Ser Tyr Phe Ala Thr Phe Leu Leu Leu Pro Leu
 35 40 45
 Val Ser Leu Leu Leu Pro Leu Pro Phe Tyr Phe Cys Phe Val Leu Thr
 50 55 60
 Asn Leu Leu Ser Lys Ile Ser Phe Ser Pro
 65 70

<210> 31838
 <211> 207
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (207)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31838
 Val Ile Pro Pro Arg Ile Ser Tyr Leu Val Leu Ala Asn Leu Phe Cys
 1 5 10 15
 Ala Thr Gly Ile Val Gly Ser Asp Pro Tyr Leu Ala Pro Glu Val Tyr
 20 25 30

12366

Asp Glu Lys Lys Tyr Asp Pro Arg Pro Thr Asp Ile Trp Ser Leu Ala
 35 40 45
 Ile Ile Phe Cys Cys Met Thr Leu Arg Arg Phe Pro Trp Lys Gln Pro
 50 55 60
 Arg Val Ser Asp Asn Ser Tyr Arg Ile Phe Val Ser Thr Pro Thr Pro
 65 70 75 80
 Gly Thr Pro Val Pro Asp Ala Asp Pro Lys Arg His Arg Ala Ile Lys
 85 90 95
 Ser Ala Pro Asp Val Ser Ser Phe Asp Asn Glu Gly Lys Pro Ala Gln
 100 105 110
 Pro Ala Glu Glu Lys Asn Gly Leu Ser Glu Pro Ser Ala Gln Ser Asp
 115 120 125
 Ser Glu Lys Lys Gln Ala Pro Thr Thr Ser Thr Thr Ser Asp Glu Asn
 130 135 140
 Arg Pro Pro Glu Ser Pro Lys Asp Lys Val Ser Gly Asn Leu Ser Lys
 145 150 155 160
 Pro Thr Arg Thr Thr Ser Lys Glu Ala Pro Pro Leu Pro Ala Ser Ala
 165 170 175
 Gln Ser Ser Ser Gln Arg Gln Glu Val Ile Lys Gly His Trp Arg Leu
 180 185 190
 Leu Arg Ile Arg Pro Arg Glu Val Phe Thr Thr Gly Arg Arg Xaa
 195 200 205

<210> 31839

<211> 316

<212> PRT

<213> A.fumigatus

<400> 31839

His Leu Trp Gly Glu Pro Asn Asp Pro Tyr Ala Arg Ser Lys Arg Pro
 1 5 10 15
 Pro Gln Ala Lys Asn Leu Ala Gln Ile Asp Gln Arg Phe Ile Phe Gly
 20 25 30
 Gly Arg Asp Ser Lys Arg Arg Asn His Thr Thr Pro Thr Phe Gly Arg
 35 40 45
 Pro Gly Thr Pro Arg Ser Ser Ser Ala Gly Asp Leu Lys Ser Ser Asp
 50 55 60
 Lys Arg Gly Gly Ile Phe Gly Ser Lys Lys Asp Leu Arg Gln Ser Asp
 65 70 75 80
 Ser Gly Glu Asn Lys His His His Gly His Met Ala Glu Leu Lys Arg
 85 90 95
 Phe Phe Lys Met Gly His His Lys His Lys Arg Gly Asp Ser Pro Ser
 100 105 110
 Ser Leu Pro Lys Arg Ser Ser Arg Ser Ser Gly Lys Ser Thr Gln Ser
 115 120 125
 Glu Thr Val Pro Phe Ala Asp Asp His Gly Leu Asn Thr Lys Tyr Gly
 130 135 140
 Lys Leu Gly Lys Val Leu Gly Ser Gly Ala Gly Gly Ser Val Arg Leu
 145 150 155 160
 Leu Lys Arg Asn Ser Asp Gly Val Thr Phe Ala Val Lys Gln Phe Arg
 165 170 175
 Asp Arg His Ser Trp Glu Thr Met Lys Glu Tyr Ser Lys Lys Val Thr
 180 185 190
 Ala Glu Phe Cys Ile Gly Ser Thr Leu His His Gly Asn Ile Ile Glu
 195 200 205
 Thr Leu Asp Ile Ile Gln Glu Gly Asp His Trp Tyr Glu Val Met Glu

12367

210		215		220	
Tyr Ala Pro Tyr Asp Leu Phe Ala Ile Val Met Thr Gly Lys Met Ser					
225		230		235	240
Lys Asp Glu Ile Ala Cys Ser Phe Lys Gln Ile Leu Ser Gly Val Ala					
	245		250		255
Tyr Leu His Gly Met Gly Leu Ala His Arg Asp Leu Lys Leu Asp Asn					
	260		265		270
Val Val Val Asn Glu His Gly Ile Met Lys Leu Ile Asp Phe Gly Ser					
	275		280		285
Ala Val Val Phe Arg Tyr Pro Phe Glu Asn Asp Ile Val Pro Ala Ser					
	290		295		300
Gly Glu Leu Phe His Arg Gly Ser Arg Thr Trp Ser					
305		310		315	

<210> 31840

<211> 71

<212> PRT

<213> A.fumigatus

<400> 31840

Cys Ile Cys Arg Arg Pro Val Ser Asp Gly Ser Ser Gly Arg Arg Asp		
1	5	10 15
Asp His Leu Asn Ala Tyr Gly Gln Tyr Gly Leu Gln Leu Lys Gln Trp		
	20	25 30
Gly Glu His Cys Pro Ser Pro Gly Thr Ser Gly Ala Phe Asp Ala Tyr		
	35	40 45
Leu Cys Pro Glu Pro Gln Leu Pro Ala Ser Gly Ser Ala Cys Lys His		
	50	55 60
Ala Asn Asn Ala Ser Thr Glu		
65		70

<210> 31841

<211> 321

<212> PRT

<213> A.fumigatus

<400> 31841

Cys Asn Leu Gly Arg Ala Phe Thr Asn Ser Ile Ser Gly Glu Ser Ser		
1	5	10 15
His Thr Arg Ser Thr Tyr Pro Ser Ile Ala Ile Ile Leu Glu Arg Lys		
	20	25 30
Thr Ala Glu Glu Ile His Ser Ser Leu Pro Phe Pro Val Tyr Ser Thr		
	35	40 45
Phe Pro Asp Asn Asp Pro Ser Ala Leu His Asp Lys Val Asp Met Thr		
	50	55 60
Val Thr Leu Gly Gly Asp Gly Thr Ile Leu Arg Ala Ser Ser Leu Phe		
65	70	75 80
Ala Thr Cys Val Asp Val Pro Pro Met Leu Ser Phe Ser Met Gly Thr		
	85	90 95
Leu Gly Phe Leu Ser Glu Trp Lys Phe Ala Glu Tyr Lys Arg Ala Phe		
	100	105 110
Arg Glu Val Phe Met Ser Gly Ala Gly Ala Gly Asp Arg Ala Pro Ile		
	115	120 125
Leu Glu Asp Gln Met Glu Asp Gly Thr Gly Pro Thr Gly Trp Ser Ser		
	130	135 140
Val Arg Gly Lys Ser Met Gly Ser Ser Arg Gly Ala Arg Ile Leu Met		

12368

145 150 155 160
 Arg Asn Arg Leu Lys Val Gly Leu Phe Thr Ala Asp Gly Lys Pro Ile
 165 170 175
 Gln Val Arg Gly Asn Ile Pro Ala Ala Gln Asp Gln Leu Gly Thr Gln
 180 185 190
 Gly Val Tyr Val Met Asn Glu Val Leu Leu His Arg Gly Lys Glu Pro
 195 200 205
 His Leu Ala Val Val Asp Val Tyr Val Gly Gly Arg Phe Leu Thr Glu
 210 215 220
 Ala Val Ala Asp Gly Met Ile Ile Ser Thr Pro Thr Gly Ser Thr Ala
 225 230 235 240
 Tyr Ser Leu Ser Ser Gly Gly Ser Ile Val His Pro Leu Val Pro Ala
 245 250 255
 Val Leu Leu Thr Pro Ile Cys Ala Arg Ser Leu Ser Phe Arg Pro Leu
 260 265 270
 Val Leu Pro Ala Ser Thr Pro Ile Thr Leu Arg Leu Ser Glu Lys Asn
 275 280 285
 Arg Gly Arg Glu Leu Glu Val Ser Ile Asp Gly Val Asn Leu Gly Gln
 290 295 300
 Gly Met Thr Val Gly Thr Glu Ala Arg Val Trp Asn Glu Glu Met Arg
 305 310 315 320
 Ser

<210> 31842
 <211> 286
 <212> PRT
 <213> A.fumigatus

<400> 31842
 Val Val Ala Arg Leu Arg Pro Ala Arg Cys Gly Glu Arg Arg Lys Cys
 1 5 10 15
 Arg Gly Ser Asn Leu Pro Cys Ser Arg Phe Phe Val Asn Leu His Thr
 20 25 30
 Gly Lys Ser Gln Trp Glu Arg Pro Glu Gly Pro Ala Gln Lys Glu Glu
 35 40 45
 Gln His Ala Pro Pro Ser Gly Pro Pro Pro Ser Tyr Asp Asp Ser Gly
 50 55 60
 Pro Ala Asn Pro Ser Val Gln Ala Ala Ala Thr Asp Asp Lys Lys Thr
 65 70 75 80
 Leu Gly Ser Asn Asn Pro Tyr Asn Gln Ala Asp Pro Ser Asn Asp Thr
 85 90 95
 Leu Glu Ser Asp Ala Arg Leu Ala Ala Gln Leu Gln Ala Glu Glu Asp
 100 105 110
 Ala Arg Ala Gln Ser Arg Ser Pro Val His Pro Gly Ala Ala Asp
 115 120 125
 Tyr Tyr Ser Gly Ser Ser Arg Pro Leu Ser Ser Ala Gly Tyr Gln Pro
 130 135 140
 Ser Gln Gly Pro Ala Pro Ala Pro Glu Pro Lys Arg Ser Arg Gly Phe
 145 150 155 160
 Leu Ser Lys Leu Met Gly Lys Ser Ser Ser Ser Ser Gly Ser Pro His
 165 170 175
 Phe Gly Arg Pro Pro Ile Ala Gln Gln Gln Ser Tyr Gly Tyr Gln Gln
 180 185 190
 Gly Gly Tyr Tyr Gly Gly Gly Tyr Pro Pro Gln Pro His Pro Ala Gly
 195 200 205

12369

Tyr Gly Tyr Pro Gln Tyr Gln Pro Gln Gly Gly His Tyr Pro Gly Ala
 210 215 220
 Val Pro Pro Arg Arg Gly Gly Gly Met Gly Thr Ala Gly Ala Ala Ala
 225 230 235 240
 Leu Gly Val Gly Gly Gly Leu Leu Gly Gly Ala Leu Leu Ala Glu Ala
 245 250 255
 Phe Asp Asp Asp His Gly Asp Thr Ile Ile Asn Asn Tyr Gly Asp Asn
 260 265 270
 Tyr Ser Gly Asp Phe Gly Gly Gly Asp Asp Phe Gly Asp Phe
 275 280 285

<210> 31843

<211> 157

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (8)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31843

Pro Asn Arg Asn Thr Phe Pro Xaa Gly Thr His Ala Thr Leu Thr Ser
 1 5 10 15
 Leu Pro Ser Leu Lys Asp Arg Glu Asp Ala Ser Ser His Val Leu His
 20 25 30
 Pro Leu Thr Ala Pro Leu Thr Arg Ser Val Ser Phe Val Phe Arg Asn
 35 40 45
 Leu Lys Ala Thr Lys Pro Glu Ser Tyr Leu Leu Glu Ile Arg Ser Ala
 50 55 60
 Glu Tyr Val Phe Ala Pro Tyr Arg Val Asp Val Ser Ala Asp Gly Thr
 65 70 75 80
 Val Leu Gly Val Trp Glu Thr Tyr Arg Gly Asn Pro Trp Asp Asn Arg
 85 90 95
 Gly Arg Glu Lys Phe Val Val Asp Ala Ala Gly Gly Asn Gly Ala Lys
 100 105 110
 Ala Ala Glu Val Met Val Glu Ala Lys Ile Leu Ala Arg Arg Gly Phe
 115 120 125
 Tyr Glu Glu Arg Ala Arg Cys Glu Met Asp Arg Ile Gln Pro Pro Arg
 130 135 140
 Ser Arg Gly Gly Glu Cys Phe Thr Leu Ala Arg Phe Lys
 145 150 155

<210> 31844

<211> 82

<212> PRT

<213> A.fumigatus

<400> 31844

Trp Trp Lys Leu Arg Phe Trp Leu Glu Glu Asp Ser Met Lys Asn Glu
 1 5 10 15
 Leu Asp Val Arg Trp Thr Glu Ser Asn Pro Arg Ala Pro Val Val Glu
 20 25 30
 Asn Ala Leu Pro Leu Arg Ala Ser Asn Asp Met Ser Thr Asp Lys Met
 35 40 45
 Arg Arg Ala Ser Leu Ser Ser Phe Ala Leu Gln Lys Pro Tyr Asp Leu

12370

50		55		60
Val Gly Val Gly Ser Pro Gly Leu His Leu Trp Asp Ala Glu Thr Tyr				
65		70		75
Gly Glu				80

<210> 31845

<211> 95

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (4)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31845

Val Val Leu Xaa Leu Leu Ile His Ala Tyr Thr Arg Leu Pro Cys Val				
1	5	10	15	
Leu Thr Tyr Leu Ser Val Asp Pro Glu Met Arg Ala Glu Phe Glu Lys				
	20	25	30	
Gln Ser Arg Thr Ser Pro Ile Ser Gly Ala Thr Arg Asn Ala Met Ala				
	35	40	45	
Gly Gly Gly Gly Pro Gly Asn Phe Asp Leu Ala Gly Trp Met Ala Gly				
	50	55	60	
Ala Thr Pro Arg Gln Ala Thr Gly Thr Asp Ser Glu Ala Ala Arg Gly				
65	70	75	80	
Thr Ala Thr Gly Arg Glu Thr Gly Gly Thr Thr Arg Arg Arg Gly				
	85	90	95	

<210> 31846

<211> 94

<212> PRT

<213> A.fumigatus

<400> 31846

Tyr Arg Ser Leu Phe Arg Thr Asn Ile Leu Asn Asn Tyr Asn Leu Phe				
1	5	10	15	
Ile Val Ser Leu Asp Asn Tyr Ile Arg Ser Leu Thr Val Phe Tyr Tyr				
	20	25	30	
Ser Asn Asn Leu Arg Tyr Tyr Ile Glu Pro Tyr Tyr Lys Ala Ser Phe				
	35	40	45	
Ile Lys Ile Leu Asp Ile Ile Phe Ile Tyr Thr Met Phe Leu Asp Ser				
	50	55	60	
Phe Ile Tyr Cys Tyr Lys Leu Leu Phe Asn Asn Leu Arg Ile Leu Leu				
65	70	75	80	
Phe Tyr Pro Leu Val Tyr Asn Ser Leu Ile Ile Ser Tyr Ile				
	85	90		

<210> 31847

<211> 84

<212> PRT

<213> A.fumigatus

<400> 31847

Glu Leu Val Asn Leu Leu Asp Pro Lys Arg Val Leu Trp Ile Asp Leu

12371

1		5		10		15
Val	Gly	Arg	Ser	Ile	Phe	Pro
		20		25		30
Pro	Ile	Asn	Asn	Thr	Asn	Asn
		35		40		45
Thr	Thr	Lys	Val	Thr	Met	Arg
		50		55		60
Leu	Phe	Asp	Lys	Val	Leu	Asn
65				70		75
						80
His	Ala	Pro	Thr			

<210> 31848

<211> 61

<212> PRT

<213> A.fumigatus

<400> 31848

Pro	Pro	Asn	Asn	Thr	Lys	Glu	Thr	Leu	Lys	Lys	Phe	Arg	Tyr	Ile	Arg
1			5					10						15	
Asp	Phe	Pro	Ala	Leu	Gln	Arg	Leu	Gly	Met	Val	Cys	Ala	Leu	Tyr	Leu
		20					25						30		
Tyr	Arg	Pro	Leu	Tyr	Ile	Val	Thr	Ala	Val	Gly	Gly	Asn	Thr	Ala	Leu
		35				40							45		
Arg	Ile	Ile	Tyr	Val	Tyr	Ala	Thr	Met	Ala	Leu	Gln	Ser			
	50					55					60				

<210> 31849

<211> 250

<212> PRT

<213> A.fumigatus

<400> 31849

Pro	Pro	Tyr	Val	Pro	Gly	Trp	Thr	Val	Val	Tyr	Asn	Leu	Pro	Phe	Thr
1			5					10						15	
Thr	Leu	His	Arg	Arg	Val	Cys	His	Ser	Ile	Pro	Val	Ile	Thr	Lys	Cys
		20					25					30			
Leu	His	Pro	Thr	Thr	Ile	Ala	Ala	Ile	Tyr	Asn	Glu	Arg	Ser	Thr	Thr
		35				40						45			
Tyr	Asp	Ala	Ala	Ile	Phe	His	His	Arg	Leu	Ala	Glu	Glu	Tyr	Ile	Arg
	50					55					60				
Ala	Ala	Ala	Pro	Gln	Pro	Gly	Ala	Gln	Val	Leu	Asp	Leu	Ala	Cys	Gly
65				70				75						80	
Thr	Gly	Leu	Val	Thr	Phe	Leu	Ala	Glu	Ala	Gln	Val	Gly	Pro	Thr	Gly
			85					90						95	
Thr	Val	Val	Gly	Val	Asp	Ile	Ser	Glu	Gly	Met	Leu	Glu	Val	Ala	Arg
		100					105						110		
Gly	Lys	Ala	Gln	Arg	Thr	Gly	Ser	Arg	Val	Thr	Phe	Tyr	Gln	His	Asp
	115					120						125			
Ile	Ser	Asn	Leu	Ser	Asp	Leu	Asp	Leu	Asn	Pro	Asn	Pro	Gly	Gly	Gln
	130				135				140						
Asp	Asp	Gly	Ala	Gly	Gln	Phe	Asp	Leu	Ile	Thr	Cys	Ala	Ala	Ala	Leu
145				150					155					160	
Val	Leu	Leu	Pro	Asp	Pro	Leu	Gly	Ala	Ile	Arg	Ser	Trp	Ala	Glu	Leu
			165				170						175		
Leu	Arg	Asn	Gly	Gly	Lys	Leu	Val	Thr	Asp	Val	Ala	Ala	Arg	Asp	Val

Variable	Mean	Standard Deviation	Minimum	Maximum	Skewness	Kurtosis	Normality Test
Age	35.2	12.5	20	65	0.15	3.2	0.98
Gender	0.55	0.5	0	1	-0.05	3.0	0.99
Education	12.5	2.5	9	16	0.2	3.5	0.97
Income	45000	15000	20000	80000	0.3	3.8	0.96
Health	0.85	0.15	0.5	1.0	-0.1	3.1	0.99
Stress	0.75	0.25	0.5	1.0	0.2	3.3	0.98
Workload	0.8	0.2	0.6	1.0	0.1	3.2	0.99
Job Satisfaction	0.65	0.3	0.4	1.0	0.3	3.6	0.95
Turnover Intent	0.25	0.2	0.1	0.5	0.4	3.9	0.94
Organizational Commitment	0.7	0.25	0.5	1.0	0.1	3.2	0.99
Perceived Stress	0.6	0.2	0.4	0.8	0.2	3.4	0.98
Work-Life Balance	0.55	0.25	0.3	0.8	0.3	3.7	0.96
Employee Engagement	0.65	0.25	0.4	0.9	0.2	3.5	0.98
Job Involvement	0.7	0.2	0.5	0.9	0.1	3.3	0.99
Organizational Identification	0.6	0.25	0.4	0.8	0.2	3.6	0.97
Perceived Organizational Support	0.55	0.25	0.3	0.8	0.3	3.8	0.95
Workgroup Cohesion	0.65	0.2	0.4	0.8	0.2	3.5	0.98
Supervisor Support	0.6	0.25	0.4	0.8	0.2	3.7	0.96
Team Efficacy	0.65	0.2	0.4	0.8	0.2	3.5	0.98
Organizational Trust	0.6	0.25	0.4	0.8	0.2	3.7	0.96
Employee Well-being	0.65	0.25	0.4	0.9	0.2	3.5	0.98
Job Design	0.6	0.25	0.4	0.8	0.2	3.7	0.96
Organizational Culture	0.65	0.2	0.4	0.8	0.2	3.5	0.98
Leadership Style	0.6	0.25	0.4	0.8	0.2	3.7	0.96
Employee Turnover	0.15	0.15	0.05	0.4	0.5	4.2	0.92
Organizational Performance	0.75	0.2	0.5	0.9	0.1	3.3	0.99
Customer Satisfaction	0.7	0.2	0.5	0.9	0.1	3.3	0.99
Employee Retention	0.85	0.15	0.7	1.0	-0.1	3.1	0.99
Organizational Innovation	0.6	0.25	0.4	0.8	0.2	3.7	0.96
Employee Development	0.65	0.2	0.4	0.8	0.2	3.5	0.98
Organizational Learning	0.6	0.25	0.4	0.8	0.2	3.7	0.96
Employee Motivation	0.65	0.25	0.4	0.9	0.2	3.5	0.98
Organizational Effectiveness	0.7	0.2	0.5	0.9	0.1	3.3	0.99
Employee Engagement	0.65	0.25	0.4	0.9	0.2	3.5	0.98
Organizational Commitment	0.7	0.2	0.5	0.9	0.1	3.3	0.99
Employee Turnover	0.15	0.15	0.05	0.4	0.5	4.2	0.92
Organizational Performance	0.75	0.2	0.5	0.9	0.1	3.3	0.99
Customer Satisfaction	0.7	0.2	0.5	0.9	0.1	3.3	0.99
Employee Retention	0.85	0.15	0.7	1.0	-0.1	3.1	0.99
Organizational Innovation	0.6	0.25	0.4	0.8	0.2	3.7	0.96
Employee Development	0.65	0.2	0.4	0.8	0.2	3.5	0.98
Organizational Learning	0.6	0.25	0.4	0.8	0.2	3.7	0.96
Employee Motivation	0.65	0.25	0.4	0.9	0.2	3.5	0.98
Organizational Effectiveness	0.7	0.2	0.5	0.9	0.1	3.3	0.99

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<210> 31850
<211> 145
<212> PRT
<213> A.fumigatus
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[illegible]

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<210> 31851
<211> 102
<212> PRT
<213> A.fumigatus
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[illegible]

100

<210> 31852
 <211> 91
 <212> PRT
 <213> A.fumigatus

<400> 31852
 Pro Ile Ser Pro Arg Glu Asp Arg Ala Ala Gly Gly Gln Ala Arg Pro
 1 5 10 15
 Ala Gly Gly Thr Gly Cys Glu Arg Ala Gly Phe Val Val Gly Pro Asp
 20 25 30
 Gly Arg Ala Gly Leu Ala Gly Arg Glu Val Gly Gly Leu Leu Pro
 35 40 45
 Lys Pro Gln Gly Phe Gly Ala Phe Gly Ser Ala Gln Pro Ala His Gly
 50 55 60
 Arg Gly Cys Gly Ser Ala Gly Ala Asp Ala Gly Leu Trp Ser Gly Arg
 65 70 75 80
 Asp Ala Ser Ala Gln Thr Val Arg Arg Gly Glu
 85 90

<210> 31853
 <211> 155
 <212> PRT
 <213> A.fumigatus

<400> 31853
 Ser Ser Gln Met Arg Leu Tyr Thr Glu Val Cys Val Pro Arg Asp Pro
 1 5 10 15
 Gln Pro Asp Arg Leu Ala Asn Gly Glu Leu Asp Leu Leu Lys Ile Pro
 20 25 30
 Asp Ala Asp Ala Phe Ala Tyr His Gln Glu Leu Lys Lys Leu Ala Ala
 35 40 45
 Ser Leu Gly Leu Thr His Leu Glu Phe Val Arg Pro Gly Thr Leu Ala
 50 55 60
 Gly Ile Val Pro Glu Glu Ala Lys Thr Leu Glu Glu Tyr Ser Asp His
 65 70 75 80
 Val Ser Lys Thr Arg Asn Leu Leu Asp Gly Thr Leu Ala Gln Ala Val
 85 90 95
 Asp Pro Asn Glu Asp Glu Asn Met Arg Ala Thr Ser Lys Gln Tyr Asp
 100 105 110
 Thr Ala Leu Pro Gln Ala Glu Asp His Glu Ala Phe Lys Ala Ala Met
 115 120 125
 Leu Lys Arg Gly Lys Val Gly Leu Glu Ser His Thr Ala Val Arg His
 130 135 140
 Asp Val Ala Asp Arg Phe Arg Pro Met Leu Ser
 145 150 155

<210> 31854
 <211> 79
 <212> PRT
 <213> A.fumigatus

<400> 31854
 Leu Ile Leu Ile Asn Asn Asn Asn Asn Asn Tyr Tyr Tyr Tyr Tyr
 1 5 10 15

12374

Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Ile Tyr Ile Lys
 20 25 30
 Ala Lys His His Ile Glu Ser Cys His Ala Gln Ile Asp Gln Asp Ala
 35 40 45
 Leu Arg Trp Gln Pro Ser His Ser Asn Gly Glu Gln Gly Leu Pro Asp
 50 55 60
 His Leu His His Leu Ser Leu Ser Ser Pro Leu Arg Arg Cys Ser
 65 70 75

<210> 31855
 <211> 135
 <212> PRT
 <213> A.fumigatus

<400> 31855
 Ile Lys Met Pro Tyr Ala Gly Asn Leu Pro Thr Pro Thr Glu Asn Lys
 1 5 10 15
 Val Ser Gln Ile Ile Ser Ile Ile Ser Ala Tyr Arg His Arg Ser Ala
 20 25 30
 Ala Val Pro Asp Arg Phe Ser Glu Phe Ala Pro Ala Leu Glu Lys Gln
 35 40 45
 Leu Thr Glu Thr Val Ser Lys Gly Glu Pro Val Arg Phe Ile Leu Pro
 50 55 60
 Ser Phe Pro Phe Lys Ala Pro Ala Glu Gly Asp Lys Arg Lys Thr Leu
 65 70 75 80
 Gly Ser Leu Pro Asp Lys Ala Glu Glu Ile Ala Leu Gln Thr Leu Asp
 85 90 95
 Ala Phe Ala Asp Ser Ile Ala Glu Ile His Gln Pro Gly Ala Thr Val
 100 105 110
 Val Ile Val Ser Asp Ala Ser Val Tyr Gly Gly Met Cys Pro Glu Gly
 115 120 125
 Ser Pro Ala Arg Gln Thr Gly
 130 135

<210> 31856
 <211> 407
 <212> PRT
 <213> A.fumigatus

<400> 31856
 Pro Leu Gln Ala Tyr Ala Lys Leu Ile Ala Ser Ser Ala Glu Ser Thr
 1 5 10 15
 Ile Arg Leu Ser Ile His Glu Ser Asn Asn Val Gly Lys Ile Thr Met
 20 25 30
 Asn Leu Phe Pro Pro Pro Thr Asn Pro Asp Phe Ile Thr Pro Trp His
 35 40 45
 Gly Ala Val Ala Val Leu Ala Asp Ala Ser Val Arg Ile Val Asp Ala
 50 55 60
 Ser Thr Val Asp Arg Asp Arg Phe Glu Val Ile Thr Asn His Glu Gly
 65 70 75 80
 Arg Pro Trp Leu Leu Arg Glu Lys Ser Asp Leu Phe Asp Trp Phe Gly
 85 90 95
 Met Glu Leu Asp Phe Glu Pro Leu Phe Pro Cys Gly Met Gln Val Arg
 100 105 110
 Pro Lys Glu Gly Tyr Gly Pro Tyr Arg Phe Glu Asp Val Asn Met Lys
 115 120 125

12375

Leu Val Arg Arg Leu Ala Leu Ser Thr Ala Pro Leu Leu Leu Arg Gly
 130 135 140
 Phe Thr Met Gln Val Glu Lys Glu Val Phe Arg Ser Lys Ala Arg Glu
 145 150 155 160
 Leu Gly Glu Ile Gln Met Trp Pro Phe Gly Asp Ile Leu Glu Val Arg
 165 170 175
 Glu Asn Ala Asp Phe Asn Met Asn Asn Val Leu Thr Arg Glu Ala Met
 180 185 190
 Pro Phe His Tyr Asp Gly Val Phe Lys Thr Val Gln Asp Glu Lys Thr
 195 200 205
 Gly Glu Trp Ile Ser Val Pro Pro Leu Phe Gln Met Phe Arg Asn Arg
 210 215 220
 Ala Ala Ser Gln Ser Lys Gly Gly Leu Thr Leu Phe Ala Ser Ser Arg
 225 230 235 240
 Asn Leu Ile Pro Leu Leu Gly Pro Asp Ser Ile Pro Leu Glu Glu Leu
 245 250 255
 Arg Lys Leu Gln Trp Glu Thr Phe Thr Ala Ala Asn Glu Ala Phe Gly
 260 265 270
 Gly His Lys Leu Gln Leu Pro Phe Ile Ile Thr His Pro Glu Ser Gly
 275 280 285
 Val Asp Thr Phe Arg Phe His Glu Pro Trp Pro Glu Ser Lys Cys Val
 290 295 300
 Pro Gly Ser Ser Glu Pro Thr Leu Val Arg Val Val Gly Trp Pro Leu
 305 310 315 320
 Ala Glu Ser Asp Ala Leu Cys Glu Lys Leu Thr Arg Leu Leu Tyr Asp
 325 330 335
 Arg Arg Val Ala Tyr Arg His Gln Trp Arg Ala Gly Asp Phe Ile Phe
 340 345 350
 Asn Asp Asn Ala Met Thr His His Thr Arg Thr Ala Phe Glu Asp Gly
 355 360 365
 His Arg Glu His Trp Arg Val His Val Asn Lys Met Val Leu Phe Leu
 370 375 380
 Lys Ser Met Arg Ile Phe Pro Val Arg Asp Arg Asn Gln Asn Glu Ile
 385 390 395 400
 Gly Ser Met Ile Val Cys Leu
 405

<210> 31857

<211> 191

<212> PRT

<213> A.fumigatus

<400> 31857

Ala Lys Arg Leu Leu Ser Cys Phe Ser Lys Leu Thr Phe Gly Ala Gln
 1 5 10 15
 His Val Pro Asp Lys Ala Ser Ile Val Ser Lys Ala Thr Lys Lys Ala
 20 25 30
 Leu Glu Trp Leu Ser Ala Met Ser Asn Phe Asp Lys Ala Ser Gly Arg
 35 40 45
 Ala Phe Arg Leu Cys Asp Gly Phe Ser Arg Arg Leu Ala Pro His Val
 50 55 60
 Gly Ala Asp Ile Glu Lys Phe Pro Ala Ala Gly Asp Thr Ala Arg Asp
 65 70 75 80
 Ala Thr Pro Asp Ala His Phe Asp Asp Ala Glu Asp Thr Ala Val Gly
 85 90 95
 Lys Thr Ser Ala Asp Asn Leu Thr Thr Glu Leu Asp Ala Ile Ala Cys

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<210> 31858
<211> 72
<212> PRT
<213> A.fumigatus
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<210> 31859
<211> 142
<212> PRT
<213> A.fumigatus
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<210> 31860
<211> 173
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<212> PRT

<213> A.fumigatus

<400> 31860

Leu Ile Ser Ala Ile Ala Ala Ser Pro Val His Ala Phe Pro Gly Tyr
 1 5 10 15
 Val Ile Gly Gly Leu Cys Trp Phe Ala Ile Pro Trp Leu Cys Ala Thr
 20 25 30
 Thr Met Gly Ile Ser Ala Leu Ala Leu Glu Gly Ala Gln Arg Ile Ser
 35 40 45
 Ser Asp Asp Val Thr Ala Gly Leu Val Leu Pro Phe Ala Ala Val Arg
 50 55 60
 Leu Leu Gly Tyr Ser Gly Ala Val Cys Thr Thr Leu Met Val Phe Met
 65 70 75 80
 Ala Val Thr Ser Ala Phe Ser Ala Gln Leu Ile Ala Val Ser Ser Ile
 85 90 95
 Val Thr Tyr Asp Val Tyr Gln Ala Tyr Ile Asn Pro Ala Ala Lys Gly
 100 105 110
 Lys Arg Leu Val Trp Val Ser His Met Ser Cys Ile Val Phe Ala Leu
 115 120 125
 Ile Met Ala Ala Phe Ala Thr Gly Leu Tyr Tyr Ala Gly Ile Gly Met
 130 135 140
 Gly Tyr Leu Tyr Leu Leu Met Gly Val Ile Ile Ser Ser Ala Val Phe
 145 150 155 160
 Leu Gly Ala Met Thr Leu Val Trp Lys Gln Gln Asn Trp
 165 170

<210> 31861

<211> 241

<212> PRT

<213> A.fumigatus

<400> 31861

Pro Gly Ile Gly Ala Cys Val Gln Ile Ile Leu Phe Ala Thr Leu Ala
 1 5 10 15
 Ile Glu Leu Lys Arg Arg Ala Pro Asn Ala His Thr Phe Leu Glu Ala
 20 25 30
 Leu Arg Ala Arg Tyr Gly Thr Ala Val His Leu Val Phe Ile Val Phe
 35 40 45
 Cys Leu Met Thr Asn Ile Leu Val Thr Ala Met Leu Leu Thr Gly Gly
 50 55 60
 Ser Ala Val Leu Thr Ser Leu Thr Gly Val His Thr Ala Ala Ala Cys
 65 70 75 80
 Phe Leu Leu Pro Ile Gly Val Val Leu Tyr Thr Leu Phe Gly Gly Ile
 85 90 95
 Lys Ala Thr Phe Ile Thr Asp Tyr Met His Thr Val Val Ile Ile Val
 100 105 110
 Val Ile Phe Ile Phe Ala Phe Ser Ala Tyr Ala Thr Asn Ala Glu Leu
 115 120 125
 Gly Ser Pro Gly Lys Val Tyr Asp Ala Leu Val Ala Ala Ser Glu Leu
 130 135 140
 His Pro Val Glu Gly Asn Ala Gln Gly Ser Tyr Leu Thr Met Arg Ser
 145 150 155 160
 Lys Glu Gly Gly Ile Phe Trp Val Ile Asn Leu Val Gly Met Tyr Pro
 165 170 175
 Arg Ala Ala Gln Tyr Asn Asn Thr Ser Ser Asp Arg Cys Phe Ala Gly

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<210> 31862
<211> 101
<212> PRT
<213> A.fumigatus
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<400> 31862

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<210> 31863
<211> 176
<212> PRT
<213> A.fumigatus
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<400> 31863

Tyr	Arg	Asp	Trp	Met	Lys	Ser	Arg	Gly	Lys	Val	Ile	Trp	Tyr	Arg	Arg
1				5					10					15	
Ser	His	Thr	Ala	Tyr	Thr	Ser	Ala	Val	Arg	Asp	Met	Gly	Ile	Pro	Gly
			20					25					30		
Leu	Thr	Gln	Ser	Phe	Val	Ile	Asn	Ser	Phe	Leu	Lys	Pro	Phe	Asn	Thr
		35					40					45			
Val	Ser	Ser	Tyr	Ile	Glu	Ile	Thr	Pro	Thr	Leu	Asp	Glu	Ser	Ile	Cys
	50					55					60				
Leu	Ser	Gln	Asp	Phe	Pro	Thr	Arg	Lys	Met	Ala	Phe	Pro	Tyr	Ser	Gln

12379

65					70					75				80
Ser	Pro	Pro	Tyr	Asp	Ala	Pro	Ala	Pro	Asp	Leu	Asn	Pro	Ser	Gly
				85					90					95
Ser	Tyr	Tyr	Thr	Pro	Gln	Asp	Ala	Pro	His	Gly	Tyr	Gly	Ala	Gln
			100					105					110	
Pro	Tyr	Gly	Gln	Pro	Gly	Gln	Leu	Glu	Gln	Tyr	Thr	Ser	Val	His
		115					120					125		Thr
Thr	Gln	His	Asp	Leu	Ser	Pro	Gln	Ala	Gln	Xaa	Tyr	Gln	Pro	Pro
		130					135				140			
Pro	Arg	Asp	Phe	Leu	Ser	Pro	Ser	Asp	Ala	Leu	Gly	Tyr	Gln	His
145					150					155				160
Pro	Arg	Asn	Tyr	Glu	Ala	Arg	Gly	Arg	Gln	Gly	Ser	Asn	Ala	Glu
				165					170					175

<210> 31864

<211> 186

<212> PRT

<213> A.fumigatus

<400> 31864

Ala	Arg	Leu	Met	Arg	Trp	Gly	Thr	Ser	Met	Arg	Pro	Glu	Thr	Thr	Lys
1			5						10					15	
Leu	Glu	Val	Ala	Arg	Ala	Ala	Met	Leu	Ser	Ile	Ser	Met	Thr	Pro	Ser
		20						25					30		
Ser	Ser	Ile	Trp	Phe	His	Leu	Arg	Leu	Thr	Pro	Tyr	Ser	Asn	Gln	His
		35					40					45			
Thr	Asp	Glu	His	Arg	Asn	Ile	Ser	Arg	Ser	Arg	Arg	Ser	Arg	Ser	Arg
	50					55					60				
Ala	Ser	Ser	Ser	Ala	Met	Lys	Asp	Arg	Ser	Gly	Ser	Arg	Ser	Arg	Ser
65					70				75						80
Arg	Ser	Gly	Ser	Ser	Gly	Gln	Asp	Arg	Ser	Leu	Ala	Gly	Thr	Leu	Met
			85						90					95	
Gly	Gly	Ala	Ser	Gly	Tyr	Tyr	Leu	Gly	His	Lys	Gln	Ser	His	Gly	Leu
		100						105					110		
Leu	Gly	Ala	Leu	Gly	Gly	Ala	Leu	Leu	Gly	Asn	Phe	Leu	Glu	His	Gln
		115					120					125			
Val	Glu	Glu	His	Lys	Glu	His	Gly	Glu	Asp	His	His	Lys	Arg	His	Arg
	130						135					140			
His	Arg	His	Arg	His	His	His	His	His	His	His	His	Asn	His	Asp	His
145					150					155					160
Gly	His	Leu	Asp	Gln	His	His	His	Asp	His	Arg	His	His	Arg	Ser	Arg
			165					170						175	
Ser	Arg	His	Ser	Arg	His	Ser	Asp	Tyr	Ser						
			180					185							

<210> 31865

<211> 78

<212> PRT

<213> A.fumigatus

<400> 31865

Gly	Ile	Phe	Trp	Ser	Thr	Arg	Trp	Arg	Asn	Thr	Arg	Ser	Met	Val	Arg
1			5						10					15	
Ile	Ile	Thr	Ser	Ala	Ile	Ala	Ile	Ala	Ile	Val	Ile	Thr	Thr	Thr	Thr
		20						25					30		
Ile	Ile	Ile	Ile	Met	Ile	Met	Gly	Ile	Ser	Ile	Asn	Thr	Thr	Met	Thr

[illegible]

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<210> 31866
<211> 203
<212> PRT
<213> A.fumigatus
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<210> 31867
<211> 103
<212> PRT
<213> A.fumigatus
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<400>	31867														
Arg	Ala	Ala	His	Pro	Val	Val	Pro	Ala	Phe	Pro	Phe	Phe	Phe	Pro	Leu
1				5					10					15	
Pro	Phe	Ser	His	Phe	Ser	Gln	Phe	Val	Asn	Met	Asp	Asn	Val	Thr	Glu
			20					25					30		
Lys	Gln	Thr	Ser	Ala	Leu	Glu	Leu	Glu	Glu	Gln	Pro	Val	Ser	Lys	Gly
			35				40					45			
Gly	Pro	Val	Tyr	Asp	Val	Asn	Glu	Lys	Val	Gly	Leu	Asp	Arg	Ala	Gly
	50					55					60				
Ala	Ile	Asn	Ala	Glu	Asp	Val	Glu	His	Lys	Met	Thr	Val	Val	Glu	Ala
65					70					75				80	
Val	Lys	Ala	Tyr	Pro	Ala	Ala	Ser	Trp	Trp	Ala	Phe	Val	Met	Ser	Cys

12381

85
Thr Ile Val Ser Ser Cys Ala
100

90

95

<210> 31868
<211> 227
<212> PRT
<213> A.fumigatus

<400> 31868
Glu Leu Gln Arg Arg Arg Cys Cys Arg Cys Ser Gly Leu Leu Gly Gln
1 5 10 15
Ser Leu Leu Ala Val Ser Leu Thr Thr Thr Asn Pro Gly Met Thr Pro
20 25 30
Gln Arg Thr Gly Ser Ser Ala Pro Ile Tyr Ala Ile Glu Glu His Cys
35 40 45
Thr Asn Ser His Ala Arg Ile Pro Ile Ala Leu Gln Trp Met Phe Pro
50 55 60
Thr Pro Leu Ala Ile Leu Leu Tyr Leu Ala Pro Glu Ser Pro Trp Trp
65 70 75 80
Leu Val Arg Lys Gly Arg Leu Ala Asp Ala Glu Lys Ala Val Arg Arg
85 90 95
Leu Gly Arg Ala Ser Ala Asn Asp Asp Pro Ala Asp Ala Val Ala Met
100 105 110
Met Arg Arg Thr Ile Glu Leu Glu Lys Thr Glu Lys Lys Pro Ser Leu
115 120 125
Val Glu Leu Trp Lys Gly Thr Asp Leu Tyr Arg Thr Leu Ile Val Cys
130 135 140
Gly Val Tyr Ala Ser Gln Asn Leu Thr Gly Asn Leu Ile Ala Asn Gln
145 150 155 160
Ala Val Tyr Phe Phe Lys Arg Glu Ser Asn Pro Phe Leu His Thr His
165 170 175
Ser Arg Leu Thr Pro Ala Gln Arg Pro Val Trp Gln Thr Thr Pro His
180 185 190
Leu His Ser Val Ser Ser Leu Leu Leu Ser Ser Gly Ser Trp Ser Cys
195 200 205
Ser Leu Gly Ser Ser Pro His Thr Ser Ala Asp Ala Pro Ser Met Ser
210 215 220
Met Ala Asn
225

<210> 31869
<211> 173
<212> PRT
<213> A.fumigatus

<400> 31869
Ile Met Glu Ser Tyr Cys Val Phe Leu Met Gly Gln Phe Ile Ala Thr
1 5 10 15
Lys Arg Phe Ala Arg Asp Tyr Gly Val Trp Ser Asp Val Lys Gln Asp
20 25 30
Phe Ile Ile Glu Ala Ser Trp Gln Ser Ala Phe Gln Cys Ser Gly Pro
35 40 45
Val Gly Ala Phe Ile Gly Val Phe Ile Ala Gly Pro Ile Thr Ser Trp
50 55 60
Ile Gly Tyr Arg Trp Ala Thr Ile Gly Gly Leu Met Phe Leu Asn Ala

12382

65		70		75		80									
Phe	Ile	Phe	Ile	Phe	Tyr	Phe	Gly	Asn	Ser	Gln	Gly	Met	Phe	Leu	Ala
		85						90						95	
Ser	Gln	Ile	Leu	Glu	Gly	Ile	Pro	Trp	Gly	Ile	Phe	Val	Ala	Asn	Ala
		100						105					110		
Pro	Ala	Tyr	Cys	Ser	Glu	Ile	Val	Pro	Met	Arg	Leu	Arg	Ala	Pro	Ala
		115						120					125		
Thr	Gln	Met	Leu	Gln	Met	Phe	Trp	Ala	Ile	Gly	Ser	Ile	Ile	Val	Gly
		130						135					140		
Gly	Ile	Thr	Tyr	His	Tyr	Gln	Ser	Arg	Asp	Asp	Pro	Thr	Ala	Tyr	Arg
145					150					155					160
Phe	Val	Arg	Ser	His	Ile	Cys	His	Arg	Gly	Ala	Leu	Tyr			
				165						170					

<210> 31870
 <211> 99
 <212> PRT
 <213> A.fumigatus

<400> 31870

Val	Gln	Pro	Phe	Pro	Ala	His	Ser	Gln	Gln	Thr	Asn	Thr	Ser	Ser	Glu
1				5					10					15	
Ala	Gly	Met	Ala	Asp	Asn	Thr	Ala	Phe	Ala	Leu	Gly	Leu	Ile	Thr	Ser
			20					25					30		
Ala	Leu	Gln	Trp	Ile	Met	Val	Met	Leu	Ser	Trp	Ile	Leu	Thr	Thr	Tyr
		35					40					45			
Leu	Gly	Arg	Arg	Thr	Ile	Tyr	Val	Tyr	Gly	Gln	Leu	Ile	Asn	Cys	Val
	50					55					60				
Phe	Leu	Val	Ala	Leu	Gly	Ile	Ala	Ala	Ser	Val	Gly	Ala	Ser	Lys	Ala
65					70					75					80
Ala	Ser	Asn	Ala	Val	Phe	Thr	Thr	Gly	Leu	Glu	Gly	Ser	Asp	Gly	Val
				85					90					95	

Ser Thr Lys

<210> 31871
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 31871

Pro	Thr	Ser	Tyr	Phe	Pro	Leu	Ser	Phe	Ser	Ser	Ile	Gln	Val	Ile	Leu
1				5					10					15	
Ser	Pro	Ala	Val	Thr	Tyr	Gln	Val	Asp	Cys	Leu	Ser	Ile	Ile	Ala	Phe
		20						25					30		
Ser	Phe	Leu	Leu	Phe	Ile	Arg	Phe	Ser	Pro	Ser	Phe	Cys	Leu	Phe	Ser
		35					40					45			
Leu	Cys	Val	Arg	Gln	Val	Thr	His	Arg	Thr	Leu	Thr	Asp	Leu	Asp	Lys
	50					55					60				
Ile	Phe	Ser	Leu	Arg	Ile	Ile	Ser	Val	Gln	Ile	Gly	Cys			
65					70					75					

<210> 31872
 <211> 132
 <212> PRT
 <213> A.fumigatus

<400> 31872

Pro Tyr Ala Gln Phe Arg Asn Lys Phe Leu Pro Lys Asp Ile Lys Ile
 1 5 10 15
 Val Gly Tyr Ala Arg Thr Lys Met Asp His Glu Glu Phe Leu Lys Arg
 20 25 30
 Val Arg Ser Tyr Ile Lys Val Pro Thr Lys Glu Ile Glu Glu Gln Leu
 35 40 45
 Asp Ser Phe Cys Gly Leu Cys Thr Tyr Ile Ser Gly Gln Tyr Asp Gln
 50 55 60
 Asp Asp Ser Phe Ile Asn Leu Arg Lys His Leu Glu Lys Val Glu Lys
 65 70 75 80
 Gly His Lys Glu Gln Asn Arg Val Phe Tyr Met Ala Leu Pro Pro Ser
 85 90 95
 Val Phe Thr Thr Val Ser Glu Gln Leu Lys Arg Asn Cys Tyr Pro Lys
 100 105 110
 Asn Gly Ile Ala Arg Ile Ile Val Ser Phe Pro Thr Gln Pro Glu Glu
 115 120 125
 Lys Ser Asn Ile
 130

<210> 31873

<211> 108

<212> PRT

<213> A.fumigatus

<400> 31873

Glu Glu Thr Leu Ala Ala Ser Ser His Met Val Arg Ile Gly Ser His
 1 5 10 15
 Gln Leu Arg Ile Ala Thr Asn Leu Val Leu Glu Thr Lys His Phe Ile
 20 25 30
 Tyr Leu Leu Pro Arg Thr Leu Arg His Pro Pro Leu Gln Asp Thr Ile
 35 40 45
 Glu Ser Tyr Val Met Phe Thr Ser Tyr Phe Gly Asp Gly Glu Ser Thr
 50 55 60
 Leu Arg Ser Pro Ser Ala Lys Ser Gly Asn Pro Glu Leu Thr Leu Arg
 65 70 75 80
 Glu Gln Ser Gln Met Glu Gly Trp Cys Ala Ala Ala Gly His Asn Arg
 85 90 95
 His Arg Leu Leu Leu Asp Lys Ser Asn Val Ser Cys
 100 105

<210> 31874

<211> 309

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (306)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31874

Ile Glu Val Cys Ser Gly Thr Asn Ile Tyr Cys Gln Arg Ile Val Gly
 1 5 10 15
 Val Arg His Lys Cys Leu Thr Cys Pro Asp Trp Asp Tyr Cys Ser Glu

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<210> 31875
<211> 306
<212> PRT
<213> A.fumigatus
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Leu	Arg	Gln	Leu	Ile	Gly	Val	Pro	Pro	Asp	Ser	Asn	Ile	Ile	Phe	Glu
1				5					10					15	
Arg	Tyr	Ser	Asp	Ser	Ala	Gly	Cys	Tyr	Val	Arg	Leu	Asp	Ser	Glu	Asn
			20				25						30		
Leu	Ala	Val	Tyr	Lys	Gln	Leu	Tyr	Arg	Ala	Ala	Lys	Ala	Lys	Leu	Lys
			35				40					45			
Leu	Arg	Ile	Arg	Ala	Thr	Leu	Val	Asn	Glu	Val	Asn	Glu	Pro	Val	Ala
			50			55					60				
Gln	Pro	Ala	Leu	Ser	Glu	Asn	Ala	Pro	Glu	Glu	Gln	Gly	Pro	Ala	Arg
65					70					75					80
Tyr	Ser	Tyr	Leu	Glu	Thr	Val	Leu	Ser	Ser	Pro	Pro	Pro	Val	Met	Gly
				85					90					95	

12385

Ser Glu Val Val Pro Ser Gly Ser Ser Glu Ser Val Pro Gly Leu Leu
 100 105 110
 Gly Ala Leu Glu Lys Pro Ala Ser Val Gly Pro Gln Ser Ala Gln Trp
 115 120 125
 Thr Lys Asp Asn Thr Ala Pro Ala Gln Pro Gly Tyr Arg Asp Phe Val
 130 135 140
 Leu Asn Thr Asp Asn Val Asp Val Pro Ile Val Ser His Arg Ser Pro
 145 150 155 160
 Thr Gly Val Phe Cys Ile Asp Cys Asn Asn Cys Gly Arg Ser Ile Arg
 165 170 175
 Asn Glu His Tyr His Cys Ser Ile Cys Glu Asp Gly Asp Phe Asp Leu
 180 185 190
 Cys Ser Gln Cys Val Asn Ser Gly Val Ser Cys Gln Ser Glu Asp His
 195 200 205
 Trp Leu Ile Lys Arg Ile Val Glu Asp Gly Ile Val Thr Asn Ser Thr
 210 215 220
 Thr Glu Arg Val Ala Pro Arg Lys Val Glu Glu Pro Arg Gln Ser Lys
 225 230 235 240
 Thr Gly Ser Glu Thr Leu Pro Glu Leu Ala Pro Glu Glu Val Gln Lys
 245 250 255
 Pro Thr Pro Ala Pro Glu Glu Val Gln Glu Pro Thr Pro Ala Thr Ala
 260 265 270
 Glu Lys Tyr Pro Leu Gln Pro Ala Glu Arg Ile Cys Asn Ser Cys Leu
 275 280 285
 Lys Gly Ala Leu Pro Val Val Thr His Glu Val Ser Val Val Ala His
 290 295 300
 Ser Arg
 305

<210> 31876

<211> 63

<212> PRT

<213> A.fumigatus

<400> 31876

Asn Lys Val Ile Glu Gln Ile Leu Trp Leu Asn Thr Ile Glu Ser Leu
 1 5 10 15
 Pro Thr Val Val Gly Lys Asp Ser Met Val Leu Asp Gly Glu Trp Phe
 20 25 30
 Lys Leu Arg Pro Glu Leu Thr Arg Val Glu Tyr His Pro Thr Tyr Leu
 35 40 45
 Leu Lys Glu Glu Pro Glu His Pro Val Ser Leu Arg Gly Asn Leu
 50 55 60

<210> 31877

<211> 393

<212> PRT

<213> A.fumigatus

<400> 31877

Ala Arg Gly Ile Phe Gln Pro Ile Gln Cys Cys Leu Cys Glu Gly Glu
 1 5 10 15
 Asp Leu Gln Thr Ser Pro Gly Phe Pro Ile Asn Lys Arg Lys Val Thr
 20 25 30
 Trp Ser Gly Gly Pro Cys Ala Ser Gly Ser Ile Asn Cys Gly Tyr Leu
 35 40 45

12386

Pro	Phe	Lys	Glu	Leu	Gly	Gly	Ser	Leu	Phe	Trp	Pro	Gly	Ser	Ser	Cys
50					55						60				
Cys	Pro	Leu	Leu	Thr	Met	Ala	Ser	Ile	Ser	Leu	Pro	Leu	Pro	Pro	Gln
65					70					75					80
Ser	Pro	Ala	Ala	Leu	Ser	Gln	His	Phe	Asp	Ser	Pro	Ser	Gln	Ser	Pro
				85					90					95	
Ser	Arg	His	Ser	Arg	Arg	Asn	Leu	Ser	Met	Ala	Ala	Pro	Leu	Pro	Asn
			100					105					110		
Pro	Pro	Phe	Val	Phe	Pro	Ala	Arg	Asp	Pro	Glu	Pro	Ser	Asn	Met	Arg
		115					120					125			
Pro	Ser	Ala	Pro	Pro	Glu	Gln	Arg	Ser	Arg	Ile	Pro	His	Pro	Leu	Pro
		130				135					140				
Ala	Phe	Ser	Phe	Asn	Pro	Gly	Ser	Ser	His	Thr	Thr	Gln	Ser	Pro	Val
145					150					155					160
Ser	Ala	Val	Pro	Pro	Ala	Arg	Val	Ser	Gly	His	Arg	Arg	Arg	Pro	Ser
				165					170					175	
Glu	Phe	Ile	Gly	Gly	Asp	Gln	Leu	Val	Thr	Lys	Gly	Val	Thr	Glu	Thr
		180						185					190		
Gly	Gln	Ser	Asn	Asp	Glu	Asn	Ser	Leu	Pro	Ala	Pro	Ala	Lys	Leu	Pro
		195					200					205			
Thr	Pro	Gly	Pro	Gly	Phe	Ser	Ala	Gly	Gly	Pro	Gly	Arg	Arg	His	His
	210					215					220				
Ala	His	Arg	Arg	Ser	Ala	Ala	Val	Ser	Gly	Val	Asp	Leu	Ala	Glu	Ile
225					230					235					240
Thr	Lys	Ala	Leu	Ala	Leu	Lys	Pro	Ala	Val	Ser	Thr	Pro	Ser	Thr	Pro
				245					250					255	
Ala	Asp	Pro	Lys	Ile	Gly	Ala	Phe	Glu	Glu	Gln	His	Arg	Pro	Val	Ser
		260						265					270		
Tyr	Ser	Ala	Ile	Ser	Leu	Ser	Arg	Pro	Thr	Pro	Pro	Ala	Ser	Pro	Arg
	275						280					285			
Ile	Pro	Phe	Ala	Gly	Ser	Ser	Pro	His	Arg	Ala	Ala	Thr	Glu	Ser	Pro
	290					295					300				
Val	Gln	Ser	Pro	Ala	Ser	Gly	Arg	Pro	Val	Leu	Pro	Val	Lys	Pro	Asn
305					310					315					320
Ser	Pro	Gly	Pro	Asn	Gly	Ser	His	Gln	Ser	Gln	Leu	Gly	Ala	Arg	Asn
				325					330					335	
Ser	Gly	Lys	Ser	Gly	Lys	Asp	Gly	Phe	Leu	Ala	Val	Asn	Asp	Ala	Thr
			340				345						350		
Pro	Ser	Ala	Pro	Glu	Lys	Ala	Phe	Pro	Ile	Pro	Arg	Thr	Ala	Asp	Ala
		355					360					365			
Leu	Leu	Met	Cys	Asp	Leu	Gly	Gly	Asn	Gly	Val	Ser	Gly	Asp	Val	Ser
	370					375					380				
His	Met	Lys	Arg	Pro	Ser	Ser	Ala	Thr							
385					390										

<210> 31878

<211> 66

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (6)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31878

12387

```

Val Ser Thr Lys Cys Xaa Val Arg Ile Phe Met Thr Thr Ile Ala Lys
1           5           10           15
Ser His Gly Thr Asn Gln Ala Val Ser Cys Cys Leu Phe Asn His Ser
          20           25           30
Gly Gln Pro Glu Thr Asn Thr Gly Thr Ala Asn Gly Ser Pro Leu Ser
          35           40           45
Gln Asn Gly Ser Phe Asn Tyr Arg Thr Trp Lys Ile Phe Thr Leu Lys
          50           55           60
Ile Asn
65

```

<210> 31879
 <211> 223
 <212> PRT
 <213> A.fumigatus

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<400> 31879
Leu Ala Lys Asn Val Leu Thr Phe Asn Ile Leu Phe Asp Gly Ile Pro
1           5           10           15
Ile Ile Tyr Gln Gly Gln Glu Gln His Phe Asn Gly Ala Tyr Tyr Ala
          20           25           30
Asn Asn Ser Asn Arg Glu Ala Val Trp Leu Ser Gly Tyr Asn Thr Asp
          35           40           45
Ala Glu Leu Tyr Lys Leu Ala Ala Lys Leu Asn Arg Leu Arg Lys His
          50           55           60
Val Tyr Asn Leu Asp Asn Asn Tyr Leu Asp Ile Glu Thr Tyr Pro Ile
65           70           75           80
Tyr Gln Gly Ser Ser Glu Leu Ala Phe Arg Lys Gly Val Glu Gly Arg
          85           90           95
Gln Thr Ile Met Leu Leu Ser Thr Gln Gly Ala Asn Gln Lys Glu Pro
          100          105          110
Tyr Asp Leu Tyr Met Pro Val Ser Phe Asn Pro Gly Val Val Ala Met
          115          120          125
Asp Val Leu Asn Cys Val Asn Tyr Thr Val Asn Arg Ala Gly Gln Leu
          130          135          140
Val Val Pro Met Asp Lys Gly Glu Pro Arg Val Phe Phe Pro Ala Asn
145          150          155          160
Leu Met Pro Gly Ser Gly Leu Cys Gly Phe Ser Asp Thr Asn Ile Ser
          165          170          175
Tyr Val Glu Leu Lys Thr Gly Lys Pro Ala Ser Ser Gly Ser Ala Lys
          180          185          190
Val Phe Ser Met Thr Pro Ala Gly Ile Pro Val Thr Ile Leu Phe Ser
          195          200          205
Val Leu Val Ser Leu Gly Phe Gly Leu Gly Phe Gly Leu Gly Cys
          210          215          220

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<210> 31880
 <211> 150
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (128)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31880

```

Ile Val Ser Leu Asn Cys Gln Cys Asp Leu Ser Ala Arg Leu His Asn
1           5           10           15
Glu Thr Arg Arg Ala Lys Ser Lys Ile Lys His Cys Ile Asn Tyr Tyr
          20           25           30
Gly Asp Arg Ile Asp Ser Asp Lys Asp Arg His Ser Leu Ile Met Arg
          35           40           45
Met Ala Asp Pro His Ile His Thr Glu Gln Tyr Gly Val Tyr Val Gln
          50           55           60
Tyr Ala Val Gly Gly Cys Pro Ile Tyr Gln Arg Arg Phe Pro Gly Ala
65           70           75           80
Arg Thr Gly Ser Phe Val Ser Glu Met Thr Lys Gly Ser Arg Leu Gln
          85           90           95
Ser Gln Gly Asp Gln Thr Lys Gln Glu Arg Ser Ser Gly Asp Gly Glu
          100          105          110
Arg Ala Gly Thr Val Gly Gly Gly Gly Gly Ala Gly Ala Gly Xaa
          115          120          125
Gly Ser Ala Ala Gly Phe Ala Ala Gly Gly Gly Gly Ser Leu Gly Ser
          130          135          140
Cys Arg Gly Gly Glu Tyr
145           150

```

<210> 31881

<211> 95

<212> PRT

<213> A.fumigatus

<400> 31881

```

Arg Arg Asn Thr Ser Ser Leu Ala Asn Ile Val Glu Val Met Lys Asn
1           5           10           15
Ser Cys His Asp Val Thr Ser Met Thr Thr Phe Thr Glu Ser His Asp
          20           25           30
Val Asn Arg Phe Ala Asn Met Thr Ser Asp Met Ala Val Gly Thr Asp
          35           40           45
Pro Phe Pro Pro Thr Lys Ala Ile Pro Pro Pro Leu Pro Ala Asp Thr
          50           55           60
Leu Asn Pro Phe Leu Ala Arg Lys Glu Cys Thr Tyr Val Gln His Pro
65           70           75           80
Leu Arg Arg His Pro His His Ile Pro Gly Ala Gly Ala Ala Leu
          85           90           95

```

<210> 31882

<211> 100

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (21), (44), (50), (82), (88)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31882

```

His Gly Ser Gln Ile Leu Gln His Ile Arg Asn Trp Ile Arg Ser Gly
1           5           10           15
Tyr Pro Asp Gln Xaa Gly Phe Pro Gly Ile Pro Arg Thr Arg Glu Ser
          20           25           30

```

12389

```

Leu Ala Gln Trp Gln Gln Phe Lys Val Gly Ser Xaa Gly Ser Leu Thr
    35                      40                      45
Thr Xaa Asp Leu Ile Ser Ser Ala Ser Ala Thr Gly Ser Ala Ser Thr
    50                      55                      60
Ser Phe Ser Ser Thr Val Arg Phe Phe Ser Thr Ala Ser Ala Tyr Ala
    65                      70                      75                      80
Thr Xaa Phe Ala Ser Ala Thr Xaa Phe Ser Thr Leu Ser Lys Ser Ala
                      85                      90                      95
Ser Gly Thr Gly
                100

```

<210> 31883

<211> 94

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (8), (14), (62)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31883

```

His Cys Ile Cys Ile Cys His Xaa Phe Cys Ile Cys His Xaa Phe Phe
1          5                      10                      15
His Leu Glu Gln Val Arg Leu Trp His Arg Leu Val Ala Cys Ser Gly
    20                      25                      30
Phe Phe Lys Ser Arg Val Leu Ile Phe Ser Ala Ser Ala Ala Ser Lys
    35                      40                      45
Thr Ala Ser Ala Thr Gly Ser Glu Thr Ser Gly Ala Ser Xaa Ser Ser
    50                      55                      60
Thr Ser Ser Pro Thr Thr Thr Pro Asn Gly Ala Gly Ser Leu Thr Val
    65                      70                      75                      80
Pro Ala Gly Ser Leu Leu Leu Gly Leu Val Ala Leu Ala Leu
                      85                      90

```

<210> 31884

<211> 153

<212> PRT

<213> A.fumigatus

<400> 31884

```

Ser Tyr Ser Leu Gly Pro Asp Glu Tyr Val Met Ala Val Lys Asn Met
1          5                      10                      15
Asp Leu Glu Val Ser Glu Asn Thr His Glu Arg Arg Asn Met Ile Val
    20                      25                      30
Val Gly Thr Ala Phe Ala Arg Gly Glu Asp Ile Pro Ser Arg Gly Cys
    35                      40                      45
Ile Tyr Val Phe Glu Val Ile Lys Val Val Pro Asp Pro Glu Lys Pro
    50                      55                      60
Glu Thr Asp Arg Lys Leu Lys Leu Ile Gly Lys Glu Leu Val Lys Gly
    65                      70                      75                      80
Ala Val Thr Ala Leu Ser Gln Ile Gly Gly Gln Gly Phe Leu Ile Ala
                      85                      90                      95
Ala Gln Gly Gln Lys Cys Met Val Arg Gly Leu Lys Glu Asp Gly Ser
    100                      105                      110
Leu Leu Pro Val Ala Phe Met Asp Met Gln Cys Tyr Val Asn Val Leu

```

[illegible]

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<210> 31885
<211> 163
<212> PRT
<213> A.fumigatus
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<210> 31886
<211> 118
<212> PRT
<213> A.fumigatus
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[illegible]

115

<210> 31887

<211> 69

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (46)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31887

```

Ile Phe Leu Phe Thr Phe Ala Val Leu Gly Ile Ser Leu Leu Leu Gly
1          5          10          15
Lys Thr Lys Ser Asp Phe Arg Gly Cys Tyr Met Ile Ile Leu Met Pro
          20          25          30
Met His Asn Ile Val Glu Gly Arg Leu Ala Ala Val Phe Xaa Phe Phe
          35          40          45
Phe Ser Phe Leu Ser Ala Pro Phe Phe Ser Leu Tyr Tyr Ile Leu Cys
          50          55          60
Gln Ile Asp Ser Phe
65

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<210> 31888

<211> 273

<212> PRT

<213> A.fumigatus

<400> 31888

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Leu Glu Arg Gly Tyr Thr Ile Ser Phe Asp Phe Pro Gln Lys Phe Ala
1          5          10          15
Asn Phe Leu Ile Gly Lys Arg Gly Glu Asn Ile Asn Lys Leu Arg Glu
          20          25          30
Glu Phe Asp Val Asp Ile Lys Val Asp Asn Gly Lys Val Glu Val Lys
          35          40          45
Gly Pro Lys Ala Lys Ala Asp Ala Ala Lys Thr Arg Ile Ile Asn Leu
          50          55          60
Gly Lys Lys Leu Glu Asp Glu Thr Thr His Val Leu Lys Ile Pro Ala
          65          70          75          80
Gln Tyr His Arg Glu Leu Ile Gly Gln Lys Gly Ser Gln Val Asn Arg
          85          90          95
Leu Gln Asp Arg Tyr Ser Val Arg Val Gln Phe Pro Arg Ala Ala Val
          100          105          110
Ala Thr Pro Ser Phe Asp Asp Gln Ser Val Ala Asp Thr Ser Ser Glu
          115          120          125
Val Gly Gly Ser Arg Pro Ile Arg Pro Asn Gln Ala Pro Asp Glu Val
          130          135          140
Ile Val Lys Gly Pro Ser Lys Gly Ala Asp Ala Ala Arg Asp Glu Ile
          145          150          155          160
Leu Ser Leu Leu Gln Trp Val Ile Asp His Ser His Ser Ala Thr Val
          165          170          175
Ser Val Ala Gln Ser Gln Ile Pro Ser Leu Ile Gly Gln Arg Gly Arg
          180          185          190
Glu Met Asp Lys Leu Arg Ala Asp Thr Gly Ala Gln Ile Asp Val Pro
          195          200          205

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12392

Gly Ala Asn Asp Ala Pro Asp Ala Ser Gly Arg Val Gln Ile Lys Ile
 210 215 220
 Lys Gly Thr Lys Gln Gln Val Glu Glu Ala Lys Lys Ile Leu Leu Gln
 225 230 235 240
 Arg Ser Ser Glu Phe Asp Ala Ile Val Thr Lys Thr Ile Asp Val Asp
 245 250 255
 Lys Lys Tyr His Lys Ala Leu Ile Gly Ala Gly Gly Lys Phe Val Leu
 260 265 270
 Ile

<210> 31889

<211> 340

<212> PRT

<213> A.fumigatus

<400> 31889

Val Ser Arg Pro Pro Trp Lys Leu Thr Gln Cys Pro Gly Ala Asn Ile
 1 5 10 15
 Arg Lys Ile Val Thr Glu Ala Gly Gly Pro Thr Asp Gly Ser Ala Ser
 20 25 30
 Arg Ile Val Arg Phe Pro Arg Pro Asp Ser Ser Glu Ser Thr Ile Lys
 35 40 45
 Leu Glu Gly Asn Gly Lys Val Val Asp Asn Ile Ile Ala Ala Ile Glu
 50 55 60
 Ala Phe Val Arg Glu Arg Glu Asp Gln Val Thr Val Thr Val Asp Ile
 65 70 75 80
 Pro Pro Val Gln His Arg Leu Leu Ile Gly Arg Gly Gly Glu Thr Arg
 85 90 95
 Arg Gly Ile Glu Ser Gln Phe Asn Val Thr Leu Asp Ile Pro Lys Gln
 100 105 110
 Gly Ser Gly Arg Thr Asp Ile Lys Leu Lys Gly Pro Ser Asn Ala Val
 115 120 125
 Glu Ser Ala Lys Glu His Ile Leu Ala Met Leu Lys Asp Gln Gln Gly
 130 135 140
 Glu Thr Val Glu Val Pro Arg His Leu His His Val Val Ala Asp Asn
 145 150 155 160
 Gly Ala Phe Phe Arg Arg Leu Arg Asn Asp Tyr Arg Val Thr Val Asp
 165 170 175
 His Ala Gly Gln Gln Val Pro Leu Lys Pro Ala Ser Glu Glu Ser Arg
 180 185 190
 Ala Thr Thr Asn Gly Ala Ser Ser Leu Pro Leu Ile Thr Asp Glu Pro
 195 200 205
 Ser Asp Ser Val Asp Ala His Ser Trp Lys Val Val Asp His Ser Asp
 210 215 220
 Ala Ser Gln Asp Ala Thr Gln Pro Ala Thr Ile Pro Trp Val Leu Ile
 225 230 235 240
 Gly Ser Ser Asp Asn Val Ala Arg Ala Lys Ser Ala Leu Glu Lys Ala
 245 250 255
 Ile Ala Ser Ala Ser Gln Gln Thr Ser Gly Tyr Leu Ile Leu Pro
 260 265 270
 Asp Pro Lys Thr Tyr Arg Phe Val Ile Gly Gln Gly Gly Ser Gln Ile
 275 280 285
 Asn Thr Ile Arg Lys Gln Thr Gly Cys Arg Ile Asn Val Pro Lys Asp
 290 295 300
 Gln Ala Arg Gly Glu Ala Ile Glu Ile Lys Gly Ser Lys Asp Gly Leu

12393

305 310 315 320
 Glu Lys Ala Lys Glu Met Ile Leu Asp Ala Val Arg Ala Gly Leu Asn
 325 330 335
 Gly Gly Ser Arg
 340

<210> 31890
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 31890
 Ala Ser Glu Val Val Pro Ile Ser Pro Cys His Pro Glu Leu Asn Pro
 1 5 10 15
 Asp Thr Leu Leu Thr Asn Phe Gln Glu Leu Lys Phe Gly Val Glu Ala
 20 25 30
 Arg Ala Gln Leu Leu Lys Gly Val Asp Thr Leu Ala Lys Ala Val Thr
 35 40 45
 Ser Thr Leu Gly Pro Lys Gly Arg Asn Val Leu Ile Glu Ser Pro Tyr
 50 55 60
 Gly Ser Pro Lys Ile Thr Lys Gly Thr Phe Asp Ser Ser
 65 70 75

<210> 31891
 <211> 518
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (49), (287)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 31891
 Leu Lys Ile Asp Gly Val Ser Val Ala Lys Ala Ile Thr Leu Gln Asp
 1 5 10 15
 Lys Phe Glu Asn Leu Gly Ala Arg Phe Leu Gln Asp Val Ala Ser Lys
 20 25 30
 Thr Asn Glu Ile Ala Gly Asp Gly Thr Thr Thr Val Thr Val Leu Ala
 35 40 45
 Xaa Ala Ile Phe Phe Glu Thr Val Lys Asn Val Ala Ala Gly Cys Asn
 50 55 60
 Pro Met Asp Leu Arg Arg Gly Ile Gln Ala Ala Val Asp Ala Val Val
 65 70 75 80
 Asp Tyr Leu Gln Lys Asn Lys Arg Asp Ile Thr Thr Gly Glu Glu Ile
 85 90 95
 Ala Gln Val Ala Thr Ile Ser Ala Asn Gly Asp Thr His Ile Gly Lys
 100 105 110
 Leu Ile Ser Thr Ala Met Glu Arg Val Gly Lys Glu Gly Val Ile Thr
 115 120 125
 Val Lys Glu Gly Lys Thr Ile Glu Asp Glu Leu Glu Val Thr Glu Gly
 130 135 140
 Met Arg Phe Asp Arg Gly Tyr Thr Ser Pro Tyr Phe Ile Thr Asp Thr
 145 150 155 160
 Lys Ser Gln Lys Val Glu Phe Glu Lys Pro Leu Ile Leu Leu Ser Glu
 165 170 175

12394

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Lys Lys Ile Ser Ala Val Gln Asp Ile Ile Pro Ala Leu Glu Ala Ser
      180                      185                      190
Thr Thr Leu Arg Arg Pro Leu Val Ile Ile Ala Glu Asp Ile Glu Gly
      195                      200                      205
Glu Ala Leu Ala Val Cys Ile Leu Asn Lys Leu Arg Gly Gln Leu Gln
      210                      215                      220
Val Ala Ala Val Lys Ala Pro Gly Phe Gly Asp Asn Arg Lys Ser Ile
      225                      230                      235                      240
Leu Gly Asp Leu Ala Val Leu Thr Asn Gly Thr Val Phe Thr Asp Glu
      245                      250                      255
Leu Asp Ile Lys Leu Glu Lys Leu Thr Pro Asp Met Leu Gly Ser Thr
      260                      265                      270
Gly Ala Ile Thr Ile Thr Lys Glu Asp Thr Ile Ile Leu Asn Xaa Glu
      275                      280                      285
Gly Ser Lys Asp Ala Ile Ala Gln Arg Cys Glu Gln Ile Arg Gly Val
      290                      295                      300
Met Ala Asp Pro Ser Thr Ser Glu Tyr Glu Lys Glu Lys Leu Gln Glu
      305                      310                      315                      320
Arg Leu Ala Lys Leu Ser Gly Gly Val Ala Val Ile Lys Val Gly Gly
      325                      330                      335
Ala Ser Glu Val Glu Val Gly Glu Lys Lys Asp Arg Val Val Asp Ala
      340                      345                      350
Leu Asn Ala Thr Arg Ala Ala Val Glu Glu Gly Ile Leu Pro Gly Gly
      355                      360                      365
Gly Thr Ala Leu Leu Lys Ala Ala Ala Asn Gly Leu Asp Asn Val Lys
      370                      375                      380
Pro Glu Asn Phe Asp Gln Gln Leu Gly Val Ser Ile Ile Lys Asn Ala
      385                      390                      395                      400
Ile Thr Arg Pro Ala Arg Thr Ile Val Glu Asn Thr Gly Leu Glu Gly
      405                      410                      415
Ser Val Ile Val Cys Lys Leu Thr Asp Glu Phe Ala Lys Asp Phe Asn
      420                      425                      430
Arg Gly Phe Asp Ser Ser Lys Gly Glu Tyr Val Tyr Met Ile Ser Ser
      435                      440                      445
Gly Ile Leu Asp Pro Leu Lys Val Val Arg Thr Ala Leu Leu Asp Thr
      450                      455                      460
Ser Gly Val Ala Ser Leu Leu Gly Thr Thr Glu Val Ala Ile Val Glu
      465                      470                      475                      480
Ala Pro Asp Glu Lys Gly Pro Ala Ala Pro Ala Trp Val Val Trp Val
      485                      490                      495
Val Trp Ala Ala Trp Val Ala Ala Cys Ser Asn Trp Phe His Trp Pro
      500                      505                      510
Trp Tyr His Ser Leu Ser
      515

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<210> 31892

<211> 195

<212> PRT

<213> A.fumigatus

<400> 31892

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Lys Ala Met Val Pro Arg Pro Met Glu Pro Val Arg Thr Cys Arg His
1          5          10          15
Pro Cys Arg Pro Tyr His Pro Tyr His Pro Cys Arg Ser Ser Gly Ala
      20          25          30
Phe Leu Val Arg Gly Leu Asn Asn Ser Asp Leu Ser Gly Thr Glu Gln

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Thr	Tyr	Ser	Pro	Leu	Glu	Leu	Ser	Lys	Pro	Arg	Leu	Lys	Ser	Leu	Ala
1				5					10					15	
Asn	Ser	Ser	Val	Ser	Leu	Gln	Thr	Met	Thr	Leu	Pro	Ser	Arg	Pro	Val
			20					25					30		
Phe	Ser	Thr	Met	Val	Arg	Ala	Gly	Arg	Val	Met	Ala	Phe	Leu	Met	Met
		35					40					45			
Leu	Thr	Pro	Ser	Cys	Trp	Ser	Lys	Phe	Ser	Gly	Leu	Thr	Leu	Ser	Arg
		50				55				60					
Pro	Leu	Ala	Ala	Ala	Leu	Arg	Arg	Ala	Val	Pro	Pro	Gly	Arg		Ile
65				70					75						80
Pro	Ser	Ser	Thr	Ala	Ala	Arg	Val	Ala	Leu	Arg	Ala	Ser	Thr	Thr	Arg
			85					90					95		
Ser	Phe	Phe	Ser	Pro	Thr	Ser	Thr	Ser	Glu	Ala	Pro	Pro	Thr	Leu	Met
			100				105					110			
Thr	Ala	Thr	Pro	Pro	Glu	Ser	Leu	Ala	Arg	Arg	Ser	Trp	Ser	Phe	Ser
		115				120					125				
Phe	Ser	Tyr	Ser	Glu	Val	Leu	Gly	Ser	Ala	Met	Thr	Pro	Arg	Ile	Cys
		130				135				140					
Ser	Gln	Arg	Trp	Ala	Met	Ala	Ser	Leu	Leu	Pro	Xaa	Pro	Phe	Arg	Met
145				150					155						160
Met	Val	Ser	Ser	Leu	Val	Met	Val	Met	Ala	Pro	Val	Glu	Pro	Ser	Ile
			165					170					175		
Ser	Gly	Val	Ser	Phe	Ser	Ser	Leu	Met	Ser	Ser	Ser	Ser	Val	Lys	Thr
			180				185						190		
Val	Pro	Leu	Val	Arg	Thr	Ala	Arg	Ser	Pro	Arg	Met	Leu	Leu	Arg	Leu
		195				200					205				
Ser	Pro	Asn	Pro	Gly	Ala	Leu	Thr	Ala	Ala	Thr	Cys	Ser	Trp	Pro	Arg

12397

210 215 220
 Ser Leu Phe Arg Met Gln Thr Ala Arg Ala Ser Pro Ser Met Ser Ser
 225 230 235 240
 Ala Ile Ile Thr Arg Gly Arg Arg Arg Val Val Glu Ala Ser Arg Ala
 245 250 255
 Gly Met Met Ser
 260

<210> 31895
 <211> 71
 <212> PRT
 <213> A.fumigatus

<400> 31895
 Phe Trp Glu Glu Lys Ser Gly Lys Val Ile His Ser Pro Arg Ile Arg
 1 5 10 15
 Glu Ala Gly Ser Ala Ile Val Phe Met Pro Val Ile Gly Met Tyr Val
 20 25 30
 Leu Lys Lys Val Val Lys Ile His Ala Leu Leu Ala Trp Gly Asn Ala
 35 40 45
 His Leu Leu Thr Leu Leu Gly Ile Gln Met Ile Gln Gly Val Arg Asn
 50 55 60
 Lys Val Glu Leu Leu Val Leu
 65 70

<210> 31896
 <211> 137
 <212> PRT
 <213> A.fumigatus

<400> 31896
 Pro Asp Lys Arg Arg Gly Ile Thr Asn Pro Val Ile Ala Ile Ala Gly
 1 5 10 15
 Thr Gly Trp Gly Ser Val Ser Leu Leu Lys Lys Leu Asp Thr Glu Asn
 20 25 30
 Tyr Asn Val Val Val Ile Ser Pro Arg Asn Tyr Phe Leu Phe Thr Pro
 35 40 45
 Leu Leu Pro Ser Cys Thr Thr Gly Gln Val Glu His Arg Ser Ile Met
 50 55 60
 Glu Pro Ile Arg Asn Ile Leu Arg Gln Lys Lys Ala His Val Lys Phe
 65 70 75 80
 Tyr Glu Ala Glu Ala Thr Lys Ile Asp Tyr Glu Lys Arg Val Val Tyr
 85 90 95
 Ile Ser Asp Asp Ser Glu Ile Lys Gly Asp Ile Ser His Thr Glu Val
 100 105 110
 Pro Phe Asp Met Leu Val Val Gly Val Gly Ala Glu Asn Ala Thr Phe
 115 120 125
 Gly Glu Ser Arg Ala Leu Ser Ala Asn
 130 135

<210> 31897
 <211> 79
 <212> PRT
 <213> A.fumigatus

<400> 31897

12398

Leu Phe Ser Pro Phe Ser Pro Phe Ser Leu Arg Leu Gly Ala Ile Lys
 1 5 10 15
 Thr Phe Asn Gly Trp Lys Phe His Val Pro Leu Gln His Gly Phe Pro
 20 25 30
 Asn Cys His Ala Val Asn Val Ala Val Ala Gln Val Ala Phe Asp Ala
 35 40 45
 Ile Ala Ser Pro Arg Ser Pro Val Val Thr Pro Ser Glu Ile Arg Tyr
 50 55 60
 Phe Leu Ser Ala Val Cys Pro Ala His Leu Pro Ser Leu Leu Cys
 65 70 75

<210> 31898

<211> 384

<212> PRT

<213> A.fumigatus

<400> 31898

Val Gln Ile Asp Arg Lys Thr Pro Val Asn Gly Val Ile Thr Gly Ile
 1 5 10 15
 Lys Gly Val Lys Glu His Ser Cys Phe Leu Lys Glu Val Gly Asp Ala
 20 25 30
 Gln Lys Ile Arg Lys Arg Ile Met Asp Cys Val Glu Thr Ala Met Phe
 35 40 45
 Lys Asp Gln Pro Glu Glu Glu Val Lys Arg Leu Leu His Met Val Val
 50 55 60
 Val Gly Gly Gly Pro Thr Gly Val Glu Phe Ala Gly Glu Leu Gln Asp
 65 70 75 80
 Phe Phe Asn Glu Asp Leu Lys Lys Trp Ile Pro Glu Ile Lys Asp Asn
 85 90 95
 Phe His Val Thr Leu Val Glu Ala Leu Pro Asn Val Leu Pro Met Phe
 100 105 110
 Ser Lys Gln Leu Ile Asp Tyr Thr Glu Ser Thr Phe Lys Glu Glu Ala
 115 120 125
 Ile Thr Ile Arg Thr Lys Thr Met Val Lys Asn Val Thr Asp Lys Tyr
 130 135 140
 Ile Glu Ala Glu Val Thr Lys Pro Asp Gly Thr Lys Glu Leu Glu Thr
 145 150 155 160
 Ile Pro Tyr Gly Leu Leu Val Trp Ala Thr Gly Asn Ala Val Arg Asn
 165 170 175
 Val Val Arg Asp Leu Met Asn Gln Ile Pro Ala Gln Lys Asn Ser Arg
 180 185 190
 Arg Gly Leu Ala Val Asn Glu Tyr Leu Val Val Asn Gly Thr Glu Asn
 195 200 205
 Val Trp Ala Val Gly Asp Cys Ala Val Thr Asn Tyr Ala Pro Thr Ala
 210 215 220
 Gln Val Ala Ser Gln Glu Gly Ala Phe Leu Ala Arg Leu Phe Asn Thr
 225 230 235 240
 Met Ala Lys Thr Glu Ala Ile Glu Lys Glu Leu Lys Arg Leu Ser Glu
 245 250 255
 Ala Gln Ala Val Ala Lys Asn Glu Glu Glu Arg Asn Lys Ile Phe Asp
 260 265 270
 Glu Ile Arg Glu Arg Gln Lys Gln Leu Arg Arg Thr Lys Gln Ile Gly
 275 280 285
 Pro Phe Gln Tyr Ser His Gln Gly Ser Leu Ala Tyr Ile Gly Lys Glu
 290 295 300
 Arg Ala Val Ala Asp Ile Ser Trp Leu Ser Gly Asn Ile Ala Ser Gly

12399

305					310					315				320
Gly	Thr	Val	Thr	Tyr	Leu	Phe	Trp	Arg	Ser	Ala	Tyr	Leu	Ser	Met Cys
				325					330					335
Phe	Ser	Ser	Lys	Cys	Leu	Leu	Arg	Pro	Thr	Asn	His	Lys	Ile	Val Pro
			340					345					350	
Phe	Pro	Phe	Leu	Thr	Ile	Ser	Ile	Ala	Arg	Asn	Arg	Val	Leu	Val Ala
		355					360					365		
Ala	Asp	Trp	Leu	Lys	Ala	Lys	Ile	Phe	Gly	Arg	Asp	Val	Ser	Arg Glu
	370						375				380			

<210> 31899

<211> 145

<212> PRT

<213> A.fumigatus

<400> 31899

Val	Arg	Ser	Arg	Pro	Ser	Met	Val	Gly	Ser	Ser	Met	Phe	Arg	Ser	Asn
1				5				10						15	
Met	Ala	Ser	Pro	Thr	Val	Met	Gln	Leu	Thr	Ser	Leu	Ser	Arg	Arg	Ser
			20				25						30		
Leu	Ser	Thr	Arg	Ser	Pro	Ala	Leu	Gly	Leu	Arg	Leu	Ser	Arg	Pro	Leu
		35				40						45			
Arg	Ser	Ala	Thr	Ser	Ser	Gln	Gln	Cys	Val	Gln	Arg	Thr	Phe	Arg	Arg
	50					55				60					
Ser	Tyr	Ala	Asp	Ala	Ala	Pro	Thr	Pro	Lys	Pro	Lys	Lys	Arg	Phe	Arg
	65			70					75					80	
Phe	Leu	Arg	Trp	Ala	Trp	Arg	Leu	Thr	Trp	Leu	Ser	Gly	Val	Gly	Leu
			85					90					95		
Thr	Gly	Ala	Leu	Ile	Tyr	Ser	Ile	Tyr	Glu	Gln	Arg	His	Pro	Ile	Glu
		100						105					110		
Gln	Ile	Glu	Pro	Asp	Pro	Thr	Lys	Lys	Thr	Leu	Val	Ile	Leu	Gly	Met
	115					120						125			
Leu	Gly	Ser	Leu	Pro	Cys	Leu	Pro	Pro	Ile	Asp	Arg	Val	Ala	Asn	Val
	130					135					140				
Thr															
145															

<210> 31900

<211> 60

<212> PRT

<213> A.fumigatus

<400> 31900

Phe	Ser	Val	Asp	Lys	Thr	Thr	Thr	Ile	Asn	Arg	Ala	Pro	Lys	Tyr	Glu
1				5				10						15	
Val	Ser	Leu	Gly	Pro	Trp	Arg	Trp	Pro	Asn	Ser	Ser	Gln	Ile	Leu	Met
		20					25						30		
Thr	Phe	His	Ile	His	His	Glu	Tyr	Asn	Thr	Gln	Leu	Thr	Glu	Thr	Asn
		35				40						45			
Ile	Leu	Phe	Pro	Asp	Thr	Asn	Ile	Asp	Ser	Phe	Thr				
	50					55					60				

<210> 31901

<211> 127

<212> PRT

<213> A.fumigatus

<400> 31901

Tyr Leu Val Arg Arg Met Pro Val Leu Arg Val Leu Cys Lys Asp Tyr
 1 5 10 15
 Pro Gln Arg Thr Leu Ile Leu Ala Thr Thr Asp Asp Ala Leu Val Phe
 20 25 30
 Lys Ala Ile Ala Thr Glu Val Asp His Ser Thr Gly Lys Lys Glu Arg
 35 40 45
 Asp Asn Ile His Cys Leu Val Glu Phe Cys Ser Leu Ser Ser Val Asp
 50 55 60
 Leu Thr Gly Tyr Arg Arg Leu Cys Asp Gly His Gly Thr Leu Gly Leu
 65 70 75 80
 Ile Ala Leu Asp Gly Asp Val Phe Leu Cys Val Val Thr Gly Ala Ser
 85 90 95
 Lys Ala Ala Thr Val Arg Pro Gly Glu Ala Val Trp Arg Ile Asp Asn
 100 105 110
 Val His Phe Arg Asn Ser Ser His Ser Leu Val Tyr Leu Ile Phe
 115 120 125

<210> 31902

<211> 79

<212> PRT

<213> A.fumigatus

<400> 31902

Phe Pro Leu Pro Arg Leu Ser Tyr Ile Leu Thr Glu Ala Val Cys Leu
 1 5 10 15
 Asn His Ser Cys Asn Glu Asp Gly Leu Asn Tyr Glu Ser Glu Ser Glu
 20 25 30
 Phe Ala Ala Glu Glu Ser Asn Arg Gly Glu Asp Lys Glu Ile Val Thr
 35 40 45
 Asp His Pro Phe Leu Ala Leu Lys Lys Leu Leu Ser Asp Gly Ser Phe
 50 55 60
 Tyr Tyr Ser Leu Asp Phe Asp Leu Thr Asn Arg Leu Gln Asn Arg
 65 70 75

<210> 31903

<211> 375

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (360), (372), (373), (374)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31903

His Ile Val Ser Ser Asn Lys Ala Asp Ala Phe Asp Met Gly Ser Leu
 1 5 10 15
 Asp Glu Asp Met Leu Trp Asn Ser Tyr Met Ile Asn Pro Leu Leu Ser
 20 25 30
 Leu Arg Ser His Leu Ser Arg Leu Gly Lys Leu His Leu Asp Met Ser
 35 40 45
 Arg Met Leu Thr Tyr Val Ile Arg Gly Phe Cys Ser Thr Leu Thr Ile
 50 55 60
 Pro Thr Ser Arg Pro Ile Val Gln Gln Ala Pro Thr Arg Leu Pro Pro

12401

65					70					75					80
Thr	Leu	Thr	Val	Ile	Ser	Arg	Gln	Ser	Ser	Arg	Arg	Ala	Gly	Thr	Arg
				85					90					95	
Phe	Asn	Ser	Arg	Gly	Ile	Asp	Asp	Asp	Gly	Asn	Val	Ala	Asn	Phe	Val
			100					105					110		
Glu	Thr	Glu	Thr	Val	Leu	Trp	Ile	Pro	Pro	Cys	Phe	Thr	Phe	Ser	Tyr
		115					120					125			
Val	Gln	Ile	Arg	Gly	Ser	Val	Pro	Val	Phe	Trp	Glu	Gln	Ala	Pro	Gly
	130					135					140				
Phe	Phe	Pro	Gly	Gln	Gln	Lys	Ile	Glu	Val	Ile	Arg	Ser	Cys	Glu	Ala
145					150					155					160
Thr	Lys	His	Ala	Phe	Asp	Lys	His	Phe	Glu	Ser	Leu	Glu	Ser	Arg	Tyr
			165					170						175	
Gly	Ala	Val	His	Ile	Val	Asn	Leu	Leu	Ser	Ser	Leu	Lys	Pro	Gly	Glu
		180					185					190			
Val	Glu	Leu	Ser	Thr	Arg	Phe	Asn	Glu	Leu	Val	Ser	Arg	Ser	Pro	Leu
	195						200				205				
Asn	Gln	Lys	Ala	Asn	Ala	Asp	Ala	Ser	Ser	Asn	His	Met	Leu	Leu	Glu
	210					215					220				
Met	Thr	Glu	Phe	Asp	Phe	His	Ala	Glu	Ala	Arg	Gly	Pro	Leu	Gly	Tyr
225					230					235					240
Gly	Ala	Ser	Asp	Gln	Ile	Lys	Asp	Val	Ile	Leu	His	Ser	Val	Asp	Gly
			245					250					255		
Phe	Gly	Tyr	Phe	Leu	Ser	Glu	Ser	Thr	Cys	Tyr	Gly	Asn	Glu	Ala	Lys
		260					265					270			
Thr	Ser	Ser	Val	Val	Leu	Gln	Gln	Glu	Gly	Val	Phe	Arg	Thr	Asn	Cys
	275					280						285			
Leu	Asp	Cys	Leu	Asp	Arg	Thr	Asn	Leu	Val	Gln	Thr	Ile	Ile	Ser	Thr
	290				295						300				
Met	Ala	Leu	Glu	Ser	Phe	Phe	Arg	Gln	Gln	Gly	Ala	His	Ile	Asp	Pro
305					310					315					320
Glu	Leu	Trp	Leu	Arg	His	Ser	Thr	Leu	Trp	Ala	Asp	Asn	Gly	Asp	Ala
			325						330					335	
Leu	Ser	Arg	Ile	Tyr	Ala	Gly	Thr	Gly	Ala	Leu	Lys	Ser	Ser	Phe	Ser
		340					345					350			
Arg	His	Gly	Ser	Ser	Leu	Ser	Xaa	Phe	Pro	Leu	Ala	Pro	Arg	Ile	Asn
		355				360						365			
Lys	Tyr	Val	Xaa	Xaa	Xaa	Asn									
	370					375									

<210> 31904

<211> 451

<212> PRT

<213> A.fumigatus

<400> 31904

Ile	Ala	Asn	His	Arg	Gly	Gln	Phe	Ala	Ile	Ala	Leu	Gly	Pro	Leu	Phe
1			5						10					15	
Val	Leu	Phe	Leu	Leu	Ala	Ala	Ala	Tyr	Arg	Ala	Ser	Ala	Arg	Asn	
		20						25				30			
Leu	Lys	Arg	His	Asp	Ser	Val	Leu	Arg	Ser	Thr	Val	Phe	Ser	Arg	Phe
		35				40						45			
Gly	Glu	Ala	Ile	Thr	Gly	Val	Ala	Ser	Ile	Gln	Ala	Tyr	Arg	Met	Glu
	50				55					60					
Gly	Tyr	Phe	Gln	Arg	Asn	Leu	His	Glu	Ser	Ile	Asp	Ser	Met	Asn	Gly
65					70					75					80

12402

Ala Tyr Phe Leu Thr Phe Ser Asn Gln Arg Trp Leu Ser Ile Arg Leu
85 90 95
Asp Ala Ile Gly Ser Leu Met Ile Leu Val Val Gly Ile Leu Val Val
100 105 110
Thr Ser Arg Phe Asn Val Gly Pro Ser Ile Ser Gly Leu Val Leu Ser
115 120 125
Tyr Val Leu Asn Ile Thr Leu Ser Leu Gln Phe Thr Ile Arg Gln Phe
130 135 140
Ala Glu Val Gly Asn Asn Met Asn Ala Ala Glu Arg Ile His Tyr Tyr
145 150 155 160
Gly Thr Ser Leu Asp Gln Glu Ala Pro Leu Gln Leu Ala Glu Val Pro
165 170 175
Pro Gly Trp Pro Glu Lys Gly Arg Ile Thr Phe Ser Asp Val Gln Met
180 185 190
Arg Tyr Arg Asp Gly Leu Pro Leu Val Leu Lys Gly Leu Thr Met Asp
195 200 205
Val Arg Gly Gly Glu Arg Ile Gly Ile Val Gly Arg Thr Gly Ala Gly
210 215 220
Lys Ser Ser Ile Met Ala Ala Leu Phe Arg Leu Thr Glu Leu Ser Gly
225 230 235 240
Gly Ser Ile Lys Ile Asp Asp Ile Asp Ile Ala Thr Val Gly Leu Arg
245 250 255
Asp Leu Arg Thr Arg Leu Ala Ile Ile Pro Gln Asp Pro Thr Leu Phe
260 265 270
Arg Gly Thr Ile Arg Ser Asn Leu Asp Pro Phe Asn Glu His Thr Asp
275 280 285
Leu Glu Leu Trp Ala Ala Leu Arg Lys Ala His Leu Val Gly Gln Glu
290 295 300
Leu Pro Glu Asp Glu Ser Gln Asp Gly Thr Leu Thr Pro Ser Ser Met
305 310 315 320
Asn Glu Lys Gln Gln Thr Val Gln Arg Leu His Leu Asp Thr Ile Val
325 330 335
Glu Glu Glu Gly His Asn Phe Ser Leu Gly Gln Arg Gln Leu Met Ala
340 345 350
Leu Ala Arg Ala Leu Val Arg Asp Ala Arg Ile Ile Ile Cys Asp Glu
355 360 365
Ala Thr Ser Ser Val Asp Phe Glu Thr Asp Gln Lys Val Gln Glu Thr
370 375 380
Met Ala Gln Gly Phe Gln Gly Lys Thr Leu Leu Cys Ile Ala His Arg
385 390 395 400
Leu Arg Thr Ile Ile Asn Tyr Asp Arg Ile Cys Val Met Asp Gln Gly
405 410 415
Gln Ile Ala Glu Phe Asp Thr Pro Leu Ala Leu Trp Glu Lys Pro Asp
420 425 430
Gly Ile Phe Arg Ser Met Cys Asp Gln Ser Gly Ile Thr Arg Glu Asp
435 440 445
Phe Glu Gly
450

<210> 31905

<211> 195

<212> PRT

<213> A.fumigatus

<400> 31905

Arg Cys Val Ser Thr Tyr Tyr Glu Ile Gln Trp Arg Arg Val Thr Gly

12403

1 5 10 15
 Arg Thr Ser Thr Gln Gln Gln Thr Glu Arg Ile Arg Ala Thr Thr Pro
 20 25 30
 Val Ser Ser Asn Ser Trp Ser Cys Cys Thr Ser Thr Arg His Glu Arg
 35 40 45
 Thr Pro Gly Asn Val Thr Ala Leu Gln Ala Ala Val Ser Arg Trp Asn
 50 55 60
 Ile Asp Ile Val Arg Leu Leu Leu Glu Trp Gly Ala Asp Val Asn Ala
 65 70 75 80
 Pro Ala Asn Lys His Lys His Gly Gly Lys Pro Ala Leu Gln Thr Ala
 85 90 95
 Ala Pro Glu Asn His Arg Val Met Thr Asp Leu Leu Val His Gln Gly
 100 105 110
 Ala Gly Val Asn Gly Val Pro Ser Pro Val Arg Gly Arg Thr Ala Leu
 115 120 125
 Gln Glu Ala Ala Ser Ser Gly Tyr Val Gln Leu Ser Glu Tyr Leu Leu
 130 135 140
 Ala His Gly Ala Asp Ala Asp Ala Leu Ala Arg Thr Phe Gly Trp Cys
 145 150 155 160
 Tyr Ser Leu Ala Arg Gly Arg Asn Thr Arg Gln His Ser His Cys Asp
 165 170 175
 Asp Ala Ala Ser Gly Arg Gly Arg Cys Pro Trp Ser Cys Ser Arg Glu
 180 185 190
 Trp Gln Ala
 195

<210> 31906

<211> 238

<212> PRT

<213> A.fumigatus

<400> 31906

Ala Met Gln Ser Ser Val Leu Pro Trp Asn Pro Cys Ala Ile Val Ser
 1 5 10 15
 Trp Thr Phe Trp Ser Val Ser Lys Ser Thr Asp Glu Val Ala Ser Ser
 20 25 30
 Gln Met Met Met Arg Ala Ser Arg Thr Arg Ala Arg Ala Lys Ala Ile
 35 40 45
 Ser Cys Arg Trp Pro Ser Glu Lys Leu Cys Pro Ser Ser Ser Thr Met
 50 55 60
 Val Ser Arg Cys Ser Arg Cys Thr Val Cys Cys Phe Ser Phe Ile Asp
 65 70 75 80
 Asp Gly Val Arg Val Pro Ser Trp Asp Ser Ser Ser Gly Ser Ser Trp
 85 90 95
 Pro Thr Arg Cys Ala Leu Arg Asn Ala Ala His Ser Ser Arg Ser Val
 100 105 110
 Cys Ser Leu Lys Gly Ser Arg Phe Glu Arg Ile Val Pro Arg Lys Ser
 115 120 125
 Val Gly Ser Cys Gly Ile Ile Ala Arg Arg Val Arg Arg Ser Arg Ser
 130 135 140
 Pro Thr Val Ala Ile Ser Met Ser Ser Ile Leu Ile Leu Pro Pro Glu
 145 150 155 160
 Ser Ser Val Arg Arg Asn Ser Ala Ala Met Met Leu Asp Leu Pro Ala
 165 170 175
 Pro Val Arg Pro Thr Met Pro Ile Arg Ser Pro Pro Arg Thr Ser Ile
 180 185 190

12404

Val Ser Pro Leu Ser Thr Arg Gly Ser Pro Ser Arg Tyr Arg Ile Cys
195 200 205
Thr Ser Glu Asn Val Ile Leu Pro Phe Ser Gly Gln Pro Gly Gly Thr
210 215 220
Ser Ala Asn Trp Arg Gly Ala Ser Trp Ser Lys Leu Val Pro
225 230 235

<210> 31907
<211> 123
<212> PRT
<213> A.fumigatus

<400> 31907
Ser Gly Phe Ile Gln Arg Asp Glu Pro Leu Leu Thr Val Arg Arg Arg
1 5 10 15
Lys Ile Ala Leu Tyr Ile Ala Cys Gln Ala Leu Gly Val Ala Ala Thr
20 25 30
Val Ala Ile Ser Gln Thr Ile Ala Ala Ile Gly Phe Pro Ile Leu Ile
35 40 45
Ile Ala Leu Ile Pro Phe Arg Val Trp Ile Met Pro Arg Trp Phe Ser
50 55 60
Val Glu Glu Leu Asp Val Met Asp Asp Leu Thr Ala Asn Asn Ser Ala
65 70 75 80
Val Leu Ala Ser Leu Gly Gly Pro Pro Gln Phe Pro Gly Gln Pro Asp
85 90 95
Asn Glu Met Phe Gly Leu Glu Arg Arg Tyr Ser Glu Gln Arg Phe Gly
100 105 110
Ser Thr Arg Gln Arg Ala Gly Ser Ile His Arg
115 120

<210> 31908
<211> 81
<212> PRT
<213> A.fumigatus

<400> 31908
Val Leu Ser Pro Lys Leu Ser Arg Asn Leu Ser Arg Thr His Gly Ala
1 5 10 15
Tyr Ala Tyr Val Asp His Pro Gln Pro Arg Val Phe Arg Lys Val Lys
20 25 30
Trp Thr Ser Thr Glu Tyr Leu His Ser Val Ser Asn Phe Phe Lys Asn
35 40 45
Asn Asn Asn Asn Ile Ile Ile Ile Ile Val Ile Trp Ile Thr His Asp
50 55 60
Arg Ser Asn Pro Ala Ser Cys Leu Pro Phe Gln Arg Thr Arg Leu Leu
65 70 75 80
Ser

<210> 31909
<211> 383
<212> PRT
<213> A.fumigatus

<400> 31909
Ala Ile Thr Ile Thr Ser Glu Val Lys Met Asp Arg Thr Pro Leu Ala

12405

1				5					10					15	
Gly	Asp	Arg	Cys	Leu	Asp	Ser	Asp	Leu	Ile	Phe	Ser	Ser	Ser	Pro	Gly
			20					25					30		
Phe	Gly	Thr	Pro	Val	Arg	Pro	Leu	Arg	Lys	Ser	Asn	Leu	Asn	Ala	Pro
		35					40					45			
Val	Ala	Arg	Ser	Ser	Val	Leu	Pro	Ile	Leu	Leu	Pro	Pro	Ser	Thr	Leu
	50					55					60				
Arg	Pro	Val	Ala	Phe	Arg	Thr	Phe	Thr	Arg	Lys	His	Asn	Leu	Thr	Ile
65					70				75					80	
Ser	Ser	Ser	Ala	Leu	Gln	Thr	Leu	Ala	Ser	Phe	Val	Gly	Lys	His	Cys
			85					90					95		
Gly	Ser	Gly	Trp	Arg	Glu	Glu	Gly	Leu	Ala	Glu	Arg	Val	Leu	Asp	Glu
		100					105						110		
Val	Ala	Lys	Gly	Trp	Lys	Lys	Ala	Gly	Gly	Gly	Val	Ile	Val	Glu	Glu
	115						120					125			
Gly	Arg	Gly	Ala	Ser	Leu	Lys	Ala	Ile	Leu	Lys	Ala	Leu	Glu	Gly	Asn
130					135						140				
Met	Ser	Gly	Gly	Arg	Val	Val	Ala	Ala	Lys	Pro	Ser	Ala	Ile	Arg	Glu
145				150					155					160	
Gly	Pro	Ile	Asp	Val	Asn	Ala	Pro	Asn	Cys	Asp	Ala	Arg	Arg	Leu	Asn
			165					170					175		
Pro	His	Leu	Ser	Pro	Asp	Pro	Ala	Ile	Asn	Asn	Glu	Glu	Leu	Asp	Asp
		180					185					190			
Leu	Asp	Leu	Ser	Leu	His	Pro	Arg	Asn	Trp	Ile	Lys	Ile	Val	Glu	Ala
	195					200						205			
Phe	Asp	Met	Pro	Arg	Leu	Thr	Tyr	Asn	Val	Asp	Lys	Lys	Tyr	Phe	Glu
210					215				220						
Leu	Thr	Lys	Ser	Lys	Ala	Thr	Leu	Phe	Pro	Gln	Ala	Ser	His	Lys	Thr
225				230					235					240	
Ser	Met	Phe	Arg	Asp	Arg	Tyr	Asn	Ile	Ile	His	Gln	Arg	Leu	Leu	Arg
			245					250					255		
Asn	Glu	Thr	Phe	Gln	Ser	Ser	Leu	Ser	Tyr	Leu	Thr	Gly	His	Ser	Met
		260					265					270			
Lys	Arg	Ser	Ser	Ser	Phe	Ala	Pro	Thr	Gln	Cys	Tyr	Arg	Leu	Thr	
	275				280					285					
Pro	Ile	Ala	Asn	Leu	Leu	Gly	Arg	Ser	Gly	Thr	Ser	His	Leu	Leu	Leu
	290				295				300						
Gly	Leu	Leu	Ser	Ile	Ser	Pro	Ala	Gly	Asp	Leu	Ser	Leu	Val	Asp	Leu
305			310					315					320		
Thr	Gly	Ser	Val	Ala	Leu	Asp	Leu	Ser	His	Ala	Arg	Thr	Ile	Pro	Asp
			325					330					335		
Asp	Gly	Ala	Trp	Phe	Ala	Pro	Gly	Met	Val	Val	Ile	Val	Asp	Gly	Val
		340					345				350				
Tyr	Glu	Glu	Glu	Gly	Ser	Val	Arg	Gly	Ser	Val	Leu	Gly	Gly	His	Ser
	355				360				365						
Gly	Val	Gly	Gly	Ala	Val	Gly	Gly	Arg	Phe	Val	Gly	Val	Ser	Ile	
370					375				380						

<210> 31910

<211> 699

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (689)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31910

Val	Val	Phe	Lys	Gly	Asp	Leu	Asn	Glu	Asp	Leu	Arg	Cys	Leu	His	Arg
1				5					10					15	
Phe	Val	Thr	Ser	Met	Asp	Asn	Arg	Gly	Ser	Phe	Phe	Phe	Leu	Leu	Ile
			20					25					30		
Val	Phe	Tyr	Leu	Leu	Leu	Ser	Ser	Gln	Ser	Arg	Pro	Pro	Leu	Leu	Asp
		35					40				45				
Gln	Asp	Arg	Glu	Arg	Gln	Arg	Glu	Val	Ala	Arg	Glu	Arg	Gly	Ala	Leu
	50					55				60					
Arg	Leu	Leu	Asn	Glu	Ser	Lys	Tyr	Gly	Asp	Phe	Asp	Pro	Pro	Gly	Asp
65					70				75					80	
Lys	Trp	Leu	Pro	Phe	Ala	Gly	Thr	Arg	Lys	Asn	Asp	Ser	Tyr	Ala	Trp
			85					90					95		
Gly	Ile	Leu	Pro	Glu	Ala	Gln	Gly	Arg	Ala	Arg	His	Gln	Leu	Arg	Ser
		100					105					110			
Ala	Ile	Ser	Asn	Ala	Gly	Leu	Glu	Pro	Pro	Arg	Ser	Leu	Glu	Asp	Pro
	115						120					125			
Asp	Ala	Leu	Pro	Ser	Leu	Asn	Leu	Thr	Gln	Leu	Leu	Leu	Pro	Val	Tyr
	130					135				140					
Arg	Asn	Ala	Thr	Gly	Lys	Leu	Arg	Gly	Asp	Trp	Val	Arg	Arg	Lys	Leu
145				150					155					160	
Asn	Lys	Glu	Tyr	Pro	Lys	Leu	Asn	Thr	Thr	Ala	Ile	Ala	Leu	Glu	His
			165					170					175		
Gly	Tyr	Phe	Thr	His	Glu	Phe	Gly	Leu	Asn	Ile	Thr	Gly	Ser	Ser	Gly
		180					185					190			
Thr	Phe	Tyr	Leu	Asp	Leu	Arg	Glu	Gly	Gly	Gly	Glu	Glu	Leu	Arg	Val
	195					200					205				
Asp	Ser	Gly	Gln	Val	Arg	Glu	Ile	Arg	Ala	Thr	Leu	Ala	Val	Glu	Ser
	210					215					220				
Asn	Asp	Phe	Trp	Gly	Asn	Thr	Trp	Tyr	Ile	Ser	Leu	Phe	Gly	Val	His
225				230					235					240	
Phe	Pro	Glu	Thr	Gly	Ala	Ile	Ile	Leu	Ser	Ser	Asn	Ser	Glu	Lys	Phe
			245					250					255		
Glu	Gly	Leu	Phe	Val	Leu	Pro	His	Leu	Ala	Phe	Ser	Ser	Asp	Ala	Tyr
		260					265						270		
Glu	Leu	Ser	His	Gln	Leu	Leu	Leu	Asn	Ser	Leu	Ser	Asp	Thr	Leu	Ser
	275					280						285			
Glu	Lys	Glu	Asn	Arg	Pro	Pro	Thr	Leu	Phe	Pro	Trp	Ser	Ser	Leu	Ile
	290					295					300				
Gly	Ser	Glu	Gln	Val	Glu	Phe	Pro	Ala	Pro	Lys	Cys	Glu	His	Ile	Ile
305				310					315					320	
Tyr	Leu	Gln	Gln	His	Pro	Val	Thr	Ile	His	Asp	Tyr	Leu	Ala	Asp	Lys
			325					330					335		
Pro	Val	Val	Asp	Gln	Ile	Glu	Glu	Glu	Leu	Arg	Phe	Pro	Ile	Gly	Ala
		340					345					350			
Pro	Val	Pro	Pro	Ala	Pro	Leu	Met	Val	Met	Ser	Ala	Val	Val	Phe	Ser
	355					360					365				
Pro	Asp	Cys	Gly	Tyr	Ile	Leu	Glu	Thr	Lys	Gly	Thr	Pro	Asp	Phe	Pro
	370				375						380				
Pro	Ser	Glu	Gly	Leu	Tyr	Leu	Thr	Gly	Pro	Lys	Ile	Glu	Glu	Tyr	Asp
385				390					395					400	
Lys	Tyr	Ser	Ala	Arg	Leu	Val	Phe	Ile	Ile	Cys	Gly	Val	Phe	Ala	Ala
			405					410					415		
Gln	Ile	Thr	Leu	Leu	Leu	Arg	Gln	Ile	Lys	Glu	Ala	Ser	Thr	Pro	Ser

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<210> 31911
<211> 338
<212> PRT
<213> A.fumigatus
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Asp	Phe	Arg	Val	Ser	Gly	Thr	Phe	Ser	Asn	Gly	Phe	Pro	Gly	Pro	Val
1				5					10					15	
Glu	Gln	Ile	Leu	Glu	His	Gly	Arg	Glu	Thr	Met	Asp	Asp	Glu	Thr	Lys
			20					25					30		
Arg	Val	Val	Thr	Lys	Leu	His	Thr	Ile	Leu	Arg	Pro	Tyr	Ile	Leu	Arg
			35				40					45			
Arg	Leu	Lys	Ala	Asp	Val	Glu	Lys	Gln	Met	Pro	Ala	Lys	Tyr	Glu	His
			50			55					60				
Val	Val	Tyr	Cys	Arg	Leu	Ser	Lys	Arg	Gln	Arg	Phe	Leu	Tyr	Asp	Gly
65				70					75					80	
Phe	Met	Ser	Met	Ala	Gln	Thr	Lys	Glu	Thr	Leu	Ala	Ser	Gly	Asn	Tyr
				85					90					95	
Leu	Ser	Ile	Ile	Asn	Cys	Leu	Met	Gln	Leu	Arg	Lys	Val	Cys	Asn	His
			100					105					110		

12408

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Pro Asp Leu Phe Glu Thr Arg Gln Ile Ser Thr Ser Phe Val Met His
    115                      120                      125
His Ser Val Ala Thr Glu Tyr Ala Ser Lys Glu Gln Leu Val Arg Arg
    130                      135                      140
Arg Leu Leu Tyr Glu His Pro Leu Thr Lys Leu Asp Leu Asp Phe Leu
    145                      150                      155                      160
Asn Leu Val Pro Ile Ser Arg Glu Asp Ile Ser Arg Arg Leu Ala Asp
                      165                      170                      175
Asp Ser Thr Arg Leu Met Ala Tyr Gly Pro Phe Asn Ile Leu Arg Glu
                      180                      185                      190
Arg Gln Tyr Lys Arg Thr Asn Trp Gln Met Met Phe Asp Gly Ser Thr
    195                      200                      205
Val Gln Ser Thr Leu Glu Ala Leu Glu Asn Asp Ala Arg Lys Arg Arg
    210                      215                      220
Met Ala Glu Leu Glu Arg Cys Leu Tyr Phe Glu Ser Lys Arg His Gly
    225                      230                      235                      240
Arg Arg Pro Val Tyr Gly Thr Ser Leu Val Glu Phe Leu Thr Ala Asp
                      245                      250                      255
Ser Lys Gln Lys Pro Thr Leu Gly Gly Arg Pro Gln Thr Gln Ser Leu
                      260                      265                      270
Ala Glu Trp Leu Ser Asn Arg Ser Ser Ile Leu Ala Ser Met Ile Leu
    275                      280                      285
Ser Ile Glu Glu Arg Ser Gln Ala Met Asp Gly Tyr Val Arg Arg Phe
    290                      295                      300
Ala Cys Val Thr Pro Ala Ala Val Ala Ser Gly Ile Thr Glu Ala Ala
    305                      310                      315                      320
Leu Thr Pro Ile Glu Thr Arg Tyr Leu Thr Glu Lys Glu Arg Phe Pro
                      325                      330                      335
Ser Leu

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<210> 31912
 <211> 351
 <212> PRT
 <213> A.fumigatus

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<400> 31912
Pro Lys Arg Ser Val Ser Pro Pro Tyr Asp Pro Phe His Glu Ala Gln
1      5      10      15
Met Arg Leu Ser Ile Ala Phe Pro Asp Lys Arg Leu Leu Gln Tyr Asp
    20      25      30
Cys Gly Lys Leu Gln Arg Leu Asp Lys Leu Leu Arg Asp Leu Lys Ala
    35      40      45
Gly Gly His Arg Ala Leu Ile Phe Thr Gln Met Thr Lys Met Leu Asp
    50      55      60
Ile Leu Glu Gln Phe Leu Asn Ile His Gly His Arg Tyr Leu Arg Leu
    65      70      75      80
Asp Gly Thr Thr Lys Val Glu Gln Arg Gln Ile Leu Thr Asp Arg Phe
    85      90      95
Asn Asn Asp Asp Arg Ile Leu Val Phe Ile Leu Ser Ser Arg Ser Gly
    100     105     110
Gly Leu Gly Ile Asn Leu Thr Gly Ala Asp Thr Val Ile Phe Tyr Asp
    115     120     125
Leu Asp Trp Asn Pro Ala Met Asp Lys Gln Cys Gln Asp Arg Cys His
    130     135     140
Arg Ile Gly Gln Thr Arg Asp Val His Ile Tyr Arg Phe Val Ser Glu

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Ala	Leu	Xaa	Thr	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Trp	Xaa	Ala	Pro	Ser	Ser
1				5					10					15	
Pro	Val	Val	Lys	Thr	Met	Pro	Ala	Asp	Ala	Asn	Asp	Ile	Ser	Ser	Asp
			20					25					30		
His	Leu	Ser	Arg	Cys	Lys	Ser	Ala	Ser	Ser	Gln	Val	Ser	Asp	Arg	Ser
		35					40					45			
Ser	Ala	Asp	Ala	Glu	Ser	Thr	Ala	Ala	Gln	Pro	Cys	Arg	Leu	Glu	Arg
	50					55					60				
Thr	Thr	Ser	Phe	Asn	Thr	Asn	Thr	Arg	Pro	Pro	Ser	Arg	Glu	Pro	Val
65				70						75				80	
Ser	Pro	Ala	Ser	Glu	Asn	Ser	Lys	Asp	Gly	Gln	Asn	Gly	Gly	Ser	Arg
				85					90					95	
Ala	Ala	Thr	Gly	Asn	Ala	Ser	Val	Lys	Glu	Asp	Lys	Val	Ala	Glu	Thr
			100					105					110		
Lys	Ala	Val	Glu	Gln	Ser	Gln	Thr	Pro	Gln	Arg	Ser	Thr	Pro	Arg	Ser
		115					120					125			
Ile	Thr	Gly	Arg	Arg	Asn	Ser	Trp	Ile	Ser	Ser	Ile	Ser	Ser	Lys	Phe
	130					135					140				
Ser	Ser	Gly	Ser	Thr	Pro	Pro	Ser	Gln	Ala	Ser	Met	Lys	Ser	Pro	Ser

12410

145		150		155		160									
Pro	Lys	Ala	Thr	Ser	Pro	Met	Ser	Lys	Leu	Asp	Met	Pro	Asn	Pro	Phe
		165							170					175	
Gly	Ala	Ala	Tyr	Ser	Pro	Lys	Asp	Lys	Glu	Glu	Glu	Arg	Arg	Asp	Glu
		180						185						190	
His	Thr	Pro	Leu	Val	Ser	Thr	Ser	Pro	Lys	Gly	Pro	Ser	Phe	Leu	His
		195					200					205			
Ser	Ala	Leu	Arg	Lys	Phe	Ser	Ser	Ser	Gly	Lys	Val	Val	Pro	Asn	Gly
		210				215					220				
Gly	Ile	Cys	Glu	Arg	Arg	Val	Met	Asn	Ile	Asp	His	Asp	Arg	Asp	Arg
225					230					235					240
Cys	Lys	Ile	Pro	Asp	Leu	Asp	Gln	Lys	Lys	Leu	Arg	Arg	Val	Ala	Phe
		245							250						255
Cys	Val	Asp	Val	Glu	Ile	Ala	Gly	Ile	Ser	Arg	Arg	Glu	Ser	Asp	Glu
		260						265						270	
Glu	Ser	Pro	Thr	Gly	Ala	Ser	Asn	Gln	Lys	Ala	Lys	Arg	Ser	Asn	Ser
		275					280					285			
Lys	Ser	Lys	Asp	Arg	Asp	Asp	Ser	Lys	Arg	Pro	Gln	Pro	Asp	Ile	Ala
		290				295					300				
Asp	Lys	Glu	Lys	Gly	Arg	Gln	Glu	Asn	Gly	Thr	Ser	Arg	Gln	His	Pro
305					310					315					320
Lys	Pro	Ser	Glu	Thr	Pro	Ser	Asn	Glu	Ala	Lys	Pro	Asn	Gly	Glu	Ile
		325							330					335	
Lys	Glu	Pro	Thr	Arg	Lys	Gln	Glu	Lys	Lys	Lys	Arg	Ser	Glu	Glu	Glu
		340						345					350		
Arg	Arg	Glu	Arg	Lys	Glu	Arg	Lys	Arg	Arg	Gln	Ala	Glu	Ala	Asn	Gly
		355					360					365			
Thr	Ile	Pro	Leu	Gln	Leu	Arg	Ala	Glu	Asp	His	Glu	Asp	Asp	Ala	Arg
		370				375					380				
Pro	Ala	Val	Pro	Gly	Asn	Pro	Arg	Ser	Arg	Thr	Gln	Ser	His	Pro	Thr
385					390					395					400
Thr	Asp	Pro	Val	Arg	Ile	Tyr	Arg	Arg	Cys	Cys	Gln	Leu	Arg	Glu	Thr
		405							410					415	
Pro	Val	Leu	Lys	Lys	Ile	Val	Asp	Glu	Ile	Ser	Ser	Pro	Ser	Ser	Thr
		420						425					430		
Leu	Ala	Glu	Ser	Pro	Gly	Thr	Val	Ala	Val	Leu	Asp	Leu	Thr	Asn	Phe
		435					440					445			
Pro	Met	Thr	Ser	Gln	Asp	Met	Ala	Thr	Phe	Cys	Asp	Trp	Leu	Ala	Ile
		450				455					460				
Val	Pro	Val	Arg	Lys	Leu	Ile	Leu	Glu	Lys	Cys	Ala	Leu	Asn	Asp	Val
465					470					475					480
Ser	Val	Arg	Ala	Ile	Leu	Ala	Ala	Leu	Leu	Ser	Thr	Lys	Thr	Ile	Glu
		485							490					495	
Gln	Met	Arg	Gln	Arg	Arg	Arg	Arg	Ala	Lys	Lys	Thr	Asp	Ala	Asp	Pro
		500						505					510		
Val	Lys	Lys	Glu	Asp	Arg	Phe	Cys	Val	Val	Glu	Lys	Leu	Ser	Leu	Lys
		515					520					525			
Asp	Asn	Pro	Arg	Ile	Gly	Leu	Glu	Gly	Trp	Arg	His	Ile	Ser	Val	Phe
		530				535					540				
Val	His	Leu	Ala	Asn	Ser	Leu	Lys	Ala	Ile	Asp	Met	Ser	Gly	Ile	Pro
545					550					555					560
Phe	Pro	Arg	Met	Pro	Leu	Ser	Ala	Asn	Asp	Phe	Ala	Thr	Ser	Leu	Ser
		565							570					575	
Thr	Ser	Pro	Asn	Pro	Leu	Lys	Pro	Val	Asn	Asp	Val	Ala	Thr	Ile	Phe
		580						585					590		
Ala	Asn	Ser	Leu	Ala	Gln	Arg	Phe	Gly	Gly	Asp	His	Leu	Glu	Glu	Leu

595					600					605						
Leu	Leu	Ser	Glu	Cys	Asn	Pro	Thr	Thr	Glu	Asp	Val	Gly	Arg	Ile	Cys	
610					615					620						
Glu	Ala	Ala	Thr	Thr	Leu	Gly	Leu	Arg	Arg	Leu	Gly	Phe	Ala	Asn	Asn	
625					630					635					640	
Lys	Leu	Thr	Arg	Glu	Gly	Leu	Glu	His	Val	Val	Arg	Tyr	Leu	Glu	Ala	
				645					650					655		
Gly	Lys	Cys	Glu	Gly	Leu	Asp	Leu	Gly	Gly	Asn	Pro	Ile	Arg	Asp	His	
			660					665					670			
Leu	Asp	Leu	Ile	Thr	Ser	Ala	Leu	Glu	Gly	Glu	Phe	Pro	Leu	Tyr	Ala	
	675						680					685				
Leu	Ser	Leu	Ala	Asp	Cys	Ser	Leu	Thr	Pro	Ser	Val	Ile	His	Pro	Leu	
	690					695					700					
Leu	Gln	Arg	Leu	Thr	Cys	Leu	Tyr	Asn	Leu	Arg	Phe	Ile	Asp	Phe	Ser	
705					710					715					720	
His	Asn	Pro	Asp	Leu	Phe	Ser	Ser	Lys	Pro	Asp	Ala	Leu	Ala	Thr	Phe	
			725						730					735		
Arg	Arg	Phe	Leu	Pro	Lys	Met	Lys	Ser	Leu	Lys	Arg	Ile	His	Leu	Ala	
			740					745				750				
Asp	Val	Asn	Leu	Ser	Ala	Asp	His	Ala	Ile	Ala	Leu	Ala	Glu	Ile	Leu	
	755						760					765				
Pro	Glu	Cys	Pro	Ser	Leu	Cys	His	Leu	Asn	Ile	Leu	Glu	Asn	Pro	Cys	
	770					775					780					
Ile	Ala	Xaa	Leu	Ala	Xaa	Ala	Thr	Asp	Pro	Ala	Thr	Gln	Glu	Glu	Ala	
785				790					795					800		
Cys	Ala	Val	Tyr	Ala	Ser	Leu	Met	Ala	Ala	Val	Arg	Val	Ser	Arg	Thr	
				805					810					815		
Ile	Ile	Ala	Val	Asp	Ile	Glu	Val	Pro	Ser	Ala	Glu	Asn	Asn	Glu	Val	
			820					825					830			
Val	Lys	Ala	Leu	Ala	Ser	Gln	Ile	Val	Ala	Tyr	Cys	Leu	Gln	Asn	Leu	
	835					840					845					
Glu	Arg	Gly	Ala	Ile	Glu	Glu	Leu	Ser	Asp	Pro	Ala	Asp	Pro	Ser		
	850					855					860					
Ser	Ala	Arg	Ala	Ala	Val	Pro	Val	Pro	Val	Pro	Glu	Ile	Leu	Gln	His	
865				870					875					880		
Ile	Val	Gly	His	Gly	Gly	Leu	Gly	Asp	Asp	Ile	Cys	Glu	Asp	Glu	Asp	
			885					890					895			
Glu	Pro	Ala	Pro	Asp	Glu	Asp	Tyr	Val	Ile	Gly	Gly	Thr	Gly	Val	Val	
			900				905					910				
Lys	Ala	Leu	Glu	Val	Cys	Leu	Gly	Thr	Leu	His	His	Arg	Asp	Met	Leu	
	915					920					925					
Gly	Asp	Gln	Ser	Gly	Pro	Pro	Ser	Gly	Thr	Thr	Thr	Pro	Arg	His	Arg	
	930					935					940					
Lys	Ser	Arg	Ser	Phe	Val	Pro	Gln	Arg	Pro	Arg	Asp	Met	Ser	Lys	Asn	
945				950					955					960		
Leu	Leu	Glu	Ser	Ala	Arg	Asn	Ile	Arg	Thr	Arg	Ile	Gln	Ser	Ala	Leu	
			965					970					975			
Val	Arg	Glu	Asp	Arg	Ala	Gly	Asn	Asp	Ala	Asn	Tyr	Arg	Glu	Tyr	Leu	
			980				985					990				
Ile	Arg	Ile	Val	Phe	Leu	Phe	Ser	His	Asp	His	Ile	Ser	Asn	Lys	Arg	
	995					1000					1005					
Ser	Thr	Ala	Gly	Ser	Ser	Pro	Arg	Gly	Trp	Lys	Gly	Arg	Ala	Asn	Gly	
	1010					1015					1020					
Met																
1025																

<210> 31914
 <211> 90
 <212> PRT
 <213> A.fumigatus

<400> 31914
 Arg Met His Asn Leu Phe Phe Arg Arg Cys Arg Val Gln Cys Ala Thr
 1 5 10 15
 Asp Pro Val Leu Thr Phe His Ser Tyr Asn Arg Tyr Leu Ala Val Ala
 20 25 30
 Ala Arg Ala Val Arg Arg Ser Leu Lys Asp Gly Pro Arg Leu Ala Ala
 35 40 45
 Glu Arg Arg Gly Gln Ser Glu Leu Arg Phe Ala Lys Trp Glu Val Arg
 50 55 60
 Ile Tyr Thr Ile Phe Val Leu Asp Cys Gly Gly Asp Gly Tyr Asn Asp
 65 70 75 80
 Trp Leu Tyr Ser Ala Asn Gly Phe Leu Ala
 85 90

<210> 31915
 <211> 88
 <212> PRT
 <213> A.fumigatus

<400> 31915
 Trp Val Leu Thr Arg Val Gly His Glu Asp Glu Glu Met Ala Asp Val
 1 5 10 15
 Pro Glu Pro Pro Met Glu Glu Glu Lys Thr Ile Asp Gln Pro Pro Thr
 20 25 30
 Lys Glu Glu Pro Arg Glu Glu Ile Thr Val Ser Gly Gly Arg Arg Arg
 35 40 45
 Gly Arg Arg Lys Val Met Lys Lys Lys Thr Val Lys Asp Glu Glu Gly
 50 55 60
 Tyr Leu Gly Glu Asn Leu Arg Ala Leu Ser Tyr Asp Ala Leu Asn Pro
 65 70 75 80
 Ala Asn Leu Pro Phe Ser Arg Gln
 85

<210> 31916
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 31916
 Tyr Ile Thr Val Val Leu Gly Asp Ala Ser Asp Glu Glu Glu Pro Glu
 1 5 10 15
 Glu Leu Phe Pro Asp Ser Gly Lys Ser Ser Thr Ala Ser Tyr Arg Glu
 20 25 30
 Thr Arg Lys Glu Arg Glu Glu Lys Leu Arg Lys Met Met Glu Asp Glu
 35 40 45
 Asp Asp Asp Gly Thr Leu Ile Gly Ser Asn Phe His Thr Thr Leu Arg
 50 55 60
 Ser Asp Gly Tyr
 65

<210> 31917

12413

<211> 128
<212> PRT
<213> A.fumigatus

<400> 31917

Cys	Leu	Val	Phe	Gln	Arg	Arg	Thr	Gly	Val	Arg	Pro	Pro	Pro	Pro	Ala
1				5					10					15	
Pro	Thr	Pro	Ala	Gln	Glu	Ala	Ala	Ala	Pro	Ser	Lys	Arg	Pro	Ser	Gln
			20					25					30		
Asp	Glu	Ala	Thr	Gln	Lys	Val	Lys	Ser	Glu	Ser	Lys	Lys	Ala	Glu	His
		35					40					45			
Ala	Ala	Met	Thr	Ser	Gln	Thr	Lys	Ala	Glu	Glu	Lys	Pro	Pro	Val	Lys
	50					55					60				
Pro	Ser	Glu	Lys	Thr	Ala	Pro	Leu	Lys	Arg	Glu	Lys	Ser	Asp	Leu	Phe
65					70					75					80
Ser	Ser	Phe	Ala	Lys	Ala	Lys	Ser	Lys	Gln	Lys	Lys	Asp	Gly	Ser	Ala
				85					90					95	
Thr	Pro	Ala	Val	Ser	Gly	Ala	Glu	Ser	Val	Ser	Ala	Ser	Gln	Pro	Asn
			100						105				110		
Ile	Val	Ala	Ala	Arg	Ser	Gln	Leu	Leu	Met	Lys	Leu	Pro	Gly	Arg	Ala
			115				120						125		

<210> 31918
<211> 563
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE

<222> (40), (51)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31918

Arg	Asp	Arg	His	Cys	Gly	Ala	Arg	Lys	Tyr	Ala	Thr	Tyr	Arg	Ser	Val
1				5					10					15	
Asn	Ile	Arg	Gln	Thr	Pro	Ile	Arg	Lys	Arg	Gly	Phe	Pro	Glu	Ser	Cys
			20					25					30		
Ser	Pro	Ile	Thr	Phe	Gly	Asp	Xaa	Glu	Glu	Trp	Glu	Thr	Leu	Gln	Asn
		35				40						45			
Leu	Val	Xaa	Phe	Met	Leu	His	Cys	Arg	Tyr	Gly	Ser	Leu	Ile	Thr	Ser
	50					55					60				
Asn	Gly	Met	Pro	Leu	Arg	Met	Gln	Gly	Leu	Leu	Thr	Thr	Thr	Asp	Asp
65					70					75					80
Ile	Tyr	Arg	Phe	Ser	Leu	Phe	Ile	Leu	Ile	Ile	Tyr	Cys	Val	Lys	Lys
				85					90					95	
Tyr	Tyr	Ala	Pro	Phe	Arg	Asp	Arg	Trp	Leu	Pro	Leu	Ser	Pro	Ala	Gly
			100					105					110		
Trp	His	Tyr	Val	Val	Ala	Gly	Leu	Leu	Arg	Glu	Asn	Gln	Phe	Glu	Leu
			115				120					125			
Ala	Leu	Asp	His	Ile	Ala	His	Met	Glu	Arg	Lys	Glu	Ile	Met	Val	Glu
						135					140				
Asn	Trp	Leu	His	Ser	Leu	Leu	Ile	Tyr	Asn	Leu	Cys	Asp	Ile	Gly	Asp
145					150					155					160
Phe	Asp	Glu	Val	Leu	Arg	Gln	Met	Arg	Lys	Arg	Thr	Ser	Gln	Gly	His
				165					170					175	
Asp	Met	Thr	Thr	Glu	Leu	Trp	Leu	Tyr	Val	Leu	Asp	Val	Ala	Val	Ala

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<210> 31919
<211> 156
<212> PRT
<213> A.fumigatus
<400> 31919
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12415

Met Ala Trp Leu Thr Met Arg Ala Glu Ile Leu Asn Tyr Leu Leu Ala
 1 5 10 15
 Thr Leu Thr Ala Gln Ser Ala Ala Pro Leu Ser Ala Glu Gln Ile Ala
 20 25 30
 Ala Val Val Asn His Arg Asn His Ser Gly Asn Thr Pro Leu His Trp
 35 40 45
 Ala Ala Leu Asn Thr His Leu Gly Cys Val Lys Ala Leu Val Glu Ala
 50 55 60
 Gly Ala Asp Ile Gly Val Lys Asn Asp Ala Gly Leu Asp Ala Ile Phe
 65 70 75 80
 Leu Ala Glu Arg Thr Ala Trp Ser Thr Glu Glu Glu Gly Lys Glu Val
 85 90 95
 Pro Ala Glu Glu Glu Gly Ala Gly Lys Met Ser Lys Gly Arg Gln Val
 100 105 110
 Val Glu Trp Leu Leu Ser Ser Asp Lys Ala Gly Asp Leu Glu Glu Gly
 115 120 125
 Leu Ser Val Ser Ala Gly Val Gly Ala Glu Gly Ser Ala Ser Gly Ser
 130 135 140
 Gly Ser Gly Glu Thr Met Asp Val Asp Glu Lys Asn
 145 150 155

<210> 31920

<211> 108

<212> PRT

<213> A.fumigatus

<400> 31920

Gln His Gln Gly Asn Leu Val Leu Arg Ser Cys Ser Tyr Ser Lys Pro
 1 5 10 15
 Arg Glu Ala Gln Cys Lys Met Ser Thr Ser Thr Pro Val Lys Leu Ser
 20 25 30
 Phe Glu Ala Ile Asp Asp Leu Ile Tyr Asp Ala Arg Ala Gly Asp Leu
 35 40 45
 Glu Ala Leu Lys Ala Asp Leu Ala Thr Gln Ser Lys Glu His Asn Cys
 50 55 60
 Pro Glu Ala Trp Ile Ile Ala Ser Ala Ile Asp Ala Glu Pro Glu Ala
 65 70 75 80
 Glu Gly Gly Thr Gly Ser Cys Leu Leu His Phe Pro Ala Ala Asn Gly
 85 90 95
 Asn Ala Gly Thr Leu Thr Leu Asp Ser Thr Arg Leu
 100 105

<210> 31921

<211> 519

<212> PRT

<213> A.fumigatus

<400> 31921

Thr Asn Val Arg Tyr Val Asp Arg Trp Arg His Phe Ser Arg Arg Pro
 1 5 10 15
 Arg Ile Ser Tyr Ala Ala Ser Ser Ser Asn Ala Pro His Val Thr Val
 20 25 30
 Ile Arg Pro Val Lys Gly Leu Glu Pro Tyr Leu Tyr Asp Cys Leu Ala
 35 40 45
 Ala Thr Phe Tyr Gln Asp Tyr Pro His Asp Lys Leu Thr Ile Tyr Phe
 50 55 60

Cys Val Ser Ser Arg Ala Asp Pro Ala Tyr Pro Thr Leu Arg Lys Leu
 65 70 75 80
 Leu Ser Asp Phe Pro His Ala Asp Ala His Ile Tyr Val Glu Glu Glu
 85 90 95
 Asp Pro Leu Leu Gln Pro Asn Asn Ala Val Asn Tyr Asn Leu Gly Pro
 100 105 110
 Asn Pro Lys Ile Arg Asn Met Ser Arg Ala Tyr Arg Glu Ala Lys Gly
 115 120 125
 Asp Ile Val Trp Ile Leu Asp Cys Asn Val Trp Val Gly Arg Gly Val
 130 135 140
 Cys Gly Arg Met Val Asp Arg Leu Cys Gly Leu Gly Asp Thr Pro Gly
 145 150 155 160
 Arg Lys His Lys Phe Val His His Leu Pro Ile Ala Val Asp Val Thr
 165 170 175
 Gly Thr Ser Gly Leu Arg Glu Glu Arg Gln Ala Leu Leu Gln Ala Cys
 180 185 190
 Ala Gln Gly Asp Ser Ala Ser Ala Arg Arg Asp Ala Phe Ala Met Ile
 195 200 205
 Glu Gln Gln His Arg Glu Val Gly Trp Leu Ala Thr Gly Gly Gly Arg
 210 215 220
 Leu Glu Glu Leu Phe Leu Ala Ser Ser His Ala Lys Met Tyr Thr Ala
 225 230 235 240
 Ile Asn Thr Val Leu Ile Ala Pro Cys Ile Val Gly Lys Ser Asn Met
 245 250 255
 Phe Arg Arg Ser His Leu Asp Tyr Leu Thr Lys Pro Ser Pro Thr Glu
 260 265 270
 Ala Gln Pro Arg Arg Pro Gly Ile Asp Tyr Phe Ser Asp Asn Ile Cys
 275 280 285
 Glu Asp His Leu Val Gly Asp Leu Leu Trp Lys Gln Gln Ile Arg Glu
 290 295 300
 Glu Arg Glu Leu Gly Glu Ser Trp Gly Lys His Gly Met Val Phe Gly
 305 310 315 320
 Asp Leu Ala Ile Gln Pro Val Ala Ser Met Ser Val Arg Gly Tyr Met
 325 330 335
 Ala Arg Arg Val Arg Trp Leu Arg Val Arg Lys Phe Thr Val Leu Leu
 340 345 350
 Ala Thr Leu Val Glu Pro Gly Thr Glu Ser Ile Leu Cys Ser Leu Tyr
 355 360 365
 Gly Ala Trp Gly Val Thr Thr Ser Leu Ala Gln Phe Leu Gln Arg Gln
 370 375 380
 Gly Phe Gly Phe Ala Asp His Leu Thr Ser Trp Thr Ala Phe Phe Ser
 385 390 395 400
 Ile Phe Phe Leu Ser Ile Ala Ala Trp Ile Leu Val Asp Trp Thr Leu
 405 410 415
 Tyr Ile Lys Leu His Ser Ala Lys Thr Val Glu Leu Asn Asp Asp Thr
 420 425 430
 Pro Cys Phe Ala Gln Pro Pro Glu Arg Arg Arg Thr Arg Arg Pro Phe
 435 440 445
 Ser His Trp Leu Ala Ala Trp Leu Gly Arg Glu Met Leu Ala Leu Pro
 450 455 460
 Ile Trp Ile Trp Ala Phe Tyr Gly Gly Val Thr Val Gln Trp Arg Asp
 465 470 475 480
 Arg Arg Phe Arg Val Gly Leu Asn Met Lys Val Arg Glu Ile Lys Asp
 485 490 495
 Gly Lys Gly Val Gln Ile Glu Gly Ser Tyr Ser Ser Pro Ala Ser Arg
 500 505 510

Leu Ser Ser Ser Gly Gln Gly
515

<210> 31922

<211> 483

<212> PRT

<213> A.fumigatus

<400> 31922

Thr	Trp	Val	Cys	Pro	Ile	Cys	Ser	Phe	Thr	Asn	Pro	Val	Pro	Ser	Asn
1				5					10					15	
Phe	Asp	Pro	Ala	Thr	Ala	Thr	Ala	Ser	Thr	Pro	Leu	Ser	Pro	Cys	Leu
			20					25					30		
Ala	Cys	Gly	Ile	Lys	Pro	Pro	Phe	Thr	Thr	Val	Leu	Lys	Ala	Ala	Ile
		35					40					45			
Thr	Ala	Ala	Ala	Ser	Arg	Glu	Ala	Ala	Gln	Val	His	Pro	Ala	Ser	His
		50				55				60					
Glu	Pro	Gly	Gln	Pro	Glu	Ser	Asn	Asp	Asp	Glu	Thr	Val	Arg	Lys	Pro
65					70					75					80
Asn	Ala	Ser	Thr	Pro	Cys	Pro	Arg	Cys	Thr	Phe	Val	Asn	His	Pro	Tyr
				85					90					95	
Leu	Leu	Glu	Cys	Glu	Ile	Cys	Gly	Ala	Pro	Leu	Ala	Pro	Ala	Val	Ala
			100					105					110		
Arg	Gly	Ala	Ser	Val	Asp	Gly	Ser	Arg	Arg	Ser	Glu	Ser	Pro	Ala	Pro
		115				120						125			
Val	Phe	Gly	Gln	Gly	Asn	Ile	Ala	Asn	Thr	Glu	Thr	Phe	Glu	Val	Val
		130				135					140				
Lys	Leu	Ser	Phe	Arg	Gly	Gly	Gly	Glu	Lys	Thr	Phe	Tyr	Glu	Arg	Leu
145					150					155					160
Lys	Gly	Ala	Leu	Val	Gln	Arg	Lys	Trp	Leu	Leu	Tyr	Asp	Ala	Pro	Pro
			165						170					175	
Val	Pro	Gln	Gln	Pro	Ser	Gln	Ser	Pro	Ala	Thr	Pro	Asn	Leu	Thr	Ala
		180						185					190		
Ser	Gly	Ala	Val	Ala	Ala	Asn	Val	Ser	Thr	Pro	Ala	Gln	Pro	Arg	Ser
		195				200						205			
Pro	Ala	Val	Gly	Ile	Ala	Gly	Leu	Glu	Gln	Arg	Gly	Leu	Glu	Ala	Arg
		210				215					220				
Arg	Asn	Asn	Glu	Val	Val	Ile	Gly	Ser	Ser	Phe	Glu	Asp	Leu	Glu	Ala
225					230					235					240
Leu	Met	Ala	Ser	Ala	Lys	Arg	Ile	Ile	Asn	Leu	Ala	Glu	Thr	Leu	Ala
				245					250					255	
Arg	Glu	Ser	Gly	Met	Ala	Gly	Asp	Glu	Asn	Thr	Ala	Ala	Thr	Asn	Ala
			260					265					270		
Val	Leu	Ser	Glu	Ser	Ala	Ala	Ala	Leu	Gly	Met	Thr	Thr	Thr	Lys	Asp
		275					280					285			
Met	Leu	Gly	Ser	Gly	Ala	Glu	Asn	Leu	Tyr	Leu	Ser	Glu	Leu	Ser	Arg
		290				295					300				
Asp	Leu	Ala	Glu	Tyr	Leu	Thr	Asp	Asp	Asn	Lys	Gly	Ile	Leu	Gln	Lys
305					310					315					320
Glu	Gly	Gly	Ile	Met	Ser	Leu	Val	Asp	Leu	Trp	Ala	Met	Phe	Asn	Arg
			325					330					335		
Ser	Arg	Asn	Gly	Val	Glu	Leu	Val	Ser	Pro	Ser	Asp	Phe	Gln	Lys	Ala
			340					345					350		
Ala	Glu	Leu	Trp	Glu	Lys	Leu	Lys	Leu	Pro	Val	Arg	Leu	Arg	Arg	Phe
		355				360						365			
Lys	Ser	Gly	Leu	Leu	Val	Val	Gln	Arg	Tyr	Asp	Trp	Asn	Asp	Glu	Lys

12418

370		375		380
Thr Ile Arg Gln Leu Gln Glu Trp Met Ala Glu Leu Arg Gln Ile Pro				
385		390		400
Pro Ala Asp Pro Val Pro Trp Asp Trp Arg Gln Phe Gly Arg Ala Val				
	405		410	415
Thr Ala Gln Glu Ala Ala Gln Arg Phe Lys Trp Ser Val Gly Val Ala				
	420		425	430
Ala Glu Glu Leu Glu Met Ala Glu Asp Lys Gly Val Leu Cys Arg Glu				
	435		440	445
Glu Gly Ile Glu Gly Leu Arg Phe Trp Ser Asn Tyr Ile Thr Ser Asp				
	450		455	460
Leu Ser Ser Met Asn Ser Ile Asp Ser Ile Asp Leu Arg Val Ser Ser				
465		470		475
				480
Leu Ala Ile				

<210> 31923

<211> 228

<212> PRT

<213> A.fumigatus

<400> 31923

Arg Ile Ser Val Ala Phe Tyr Phe Ser Val Gln Pro Tyr Phe Tyr Ser				
1	5		10	15
Tyr Leu Gln Val Val Gln Gly Tyr Asp Val Ala Thr Ala Gly Arg Val				
	20		25	30
Thr Gln Thr Phe Ala Phe Thr Ser Thr Ile Ala Ala Phe Ala Val Ser				
	35		40	45
Ile Leu Ile Lys Tyr Thr Arg Arg Tyr Arg Ala Phe Val Ile Ala Gly				
	50		55	60
Cys Val Val Tyr Ile Ile Gly Met Val Leu Met Met Val Thr Arg His				
65		70		75
Glu Gly Ser Thr Pro Ala Gln Ile Leu Val Thr Gln Val Val Val Gly				
	85		90	95
Ile Gly Gly Gly Leu Leu Asn Val Pro Val Gln Leu Gly Val Gln Ala				
	100		105	110
Ser Ala Ser His Gln Glu Val Ala Ala Ala Thr Ala Met Phe Leu Thr				
	115		120	125
Ser Met Glu Met Gly Gly Ala Val Gly Ala Ala Leu Ser Gly Ala Val				
	130		135	140
Trp Thr His Asn Ile Pro Arg Lys Leu Arg Leu Tyr Leu Pro Glu Glu				
145		150		155
Asn Lys Gly Asp Ala Asp Ala Ile Phe Gly Lys Ile Thr Lys Ala Leu				
	165		170	175
Ser Tyr Pro Leu Gly Ser Pro Val Arg Val Ala Ile Asn Gln Ala Tyr				
	180		185	190
Gln Glu Thr Phe Lys Lys Leu Leu Ile Leu Ala Leu Ile Ala Ile Ile				
	195		200	205
Pro Leu Val Pro Leu Ser Leu Ala Met Glu Asp Tyr Lys Leu Asp Lys				
	210		215	220
Val Tyr Asp Ser				
225				

<210> 31924

<211> 159

<212> PRT

<213> A.fumigatus

<400> 31924

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Asn Pro Ser Pro Arg Ser Arg Ala Leu Val Tyr Arg Arg Cys Arg Phe
1          5          10          15
Val Leu Met Pro Ser Phe Pro Leu Ser Asn Leu His Ala Glu Leu Thr
          20          25          30
Ala Asp Ser Gly Ala Gln Pro Leu Val Asn Asp Asp Gly Thr Ile Ala
          35          40          45
Leu Ala Val Asn Gly Glu Ile Tyr Asn His Arg Ile Leu Arg Lys Gly
          50          55          60
Leu Lys Lys Gln Tyr Asn Phe Lys Thr His Ser Asp Cys Glu Val Val
65          70          75          80
Ile Pro Leu Val Cys Pro Lys Thr Phe His Lys Ile Ala Gly Phe Gln
          85          90          95
Arg Leu Ile Ser Phe Ser Ile Trp Asn Met Val Leu Met Leu Leu Ser
          100          105          110
Ile Leu Met Ala Cys Ser Leu Gly Phe Ser Met Thr Arg Arg Lys Thr
          115          120          125
Gly Trp Ser Pro Leu Val Thr Pro Ser Val Ser Pro Val Ser Ile Ser
          130          135          140
Asp Gly Pro Leu Arg Pro Leu Glu Leu Phe Thr Ser Pro Pro Ser
145          150          155

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<210> 31925

<211> 321

<212> PRT

<213> A.fumigatus

<400> 31925

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Ser Gly His Ser Phe Gly Met Pro Gln Asp Ile Ser Gln Asn Cys Arg
1          5          10          15
Leu Pro Glu Ala Asn Gln Leu Gln Tyr Met Glu His Gly Leu Asp Ala
          20          25          30
Pro Lys His Leu Asp Gly Met Phe Ser Trp Val Leu Tyr Asp Lys Lys
          35          40          45
Glu Asp Arg Val Val Ala Ala Arg Asp Pro Ile Gly Ile Thr Ser Phe
          50          55          60
Tyr Ile Gly Trp Ser Ser Glu Thr Pro Gly Ala Val Tyr Phe Ala Ser
65          70          75          80
Glu Leu Lys Ser Leu His Pro Val Cys Asp Lys Ile Glu Ala Phe Pro
          85          90          95
Pro Gly His Val Tyr Asp Ser Lys Thr Glu Ser Met Thr Arg Tyr Phe
          100          105          110
Gln Pro Lys Trp Trp Asp Pro Thr Asn Val Pro Thr Ala Pro Val Asp
          115          120          125
Tyr Lys Val Ile Arg Ala Thr Leu Glu Lys Ser Val Arg Lys Arg Leu
          130          135          140
Met Ala Glu Val Pro Tyr Gly Val Leu Leu Ser Gly Gly Leu Asp Ser
145          150          155          160
Ser Leu Val Ala Ser Ile Ala Gln Arg Glu Thr Leu Arg Met Gln Glu
          165          170          175
Ala Ala Lys Asn Ala Leu Val Asp Gln Thr Gly Ala Ser Asp Leu Val
          180          185          190
Gly Ile Asp Asp Thr Asn Glu Leu Ser Val Phe Thr Thr Phe Gln Gln
          195          200          205

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Leu His Ser Phe Ser Ile Gly Leu Pro Gly Ala Pro Asp Thr Glu Ala
 210 215 220
 Ala Leu Glu Val Ala Arg Phe Leu Gly Thr Lys His His Ala Phe Thr
 225 230 235 240
 Phe Thr Ile Glu Glu Gly Leu Asp Ala Leu Ser Asp Val Ile Tyr His
 245 250 255
 Leu Glu Thr Tyr Asp Val Thr Thr Ile Arg Ala Ser Thr Pro Met Tyr
 260 265 270
 Leu Leu Ser Arg Lys Ile Lys Ala Met Gly Val Lys Met Val Leu Ser
 275 280 285
 Gly Glu Gly Ser Asp Glu Ile Phe Gly Gly Tyr Leu Tyr Phe His Ala
 290 295 300
 Ala Pro Asn Lys Glu Glu Phe Gly Leu His Ala Arg Gly Gly Asp Thr
 305 310 315 320
 Arg

<210> 31926

<211> 303

<212> PRT

<213> A.fumigatus

<400> 31926

Phe Thr Pro Ala Val Leu Thr Ser Phe Arg Tyr Gly Ala Lys Asn Glu
 1 5 10 15
 Asp Phe Ala Glu Ile Ala Arg Ile Asn His Glu His Ser Lys Arg Asn
 20 25 30
 Pro Tyr Ser Gln Phe Gln Asp Glu Tyr Thr Leu Glu Gln Ile Leu Lys
 35 40 45
 Ala Pro Met Ile His Glu Pro Leu Thr Lys Leu Gln Cys Cys Pro Thr
 50 55 60
 Ser Asp Gly Gly Ala Ala Val Ile Val Ser Gln Ala Phe Leu Asp
 65 70 75 80
 Ala Arg Pro His Leu Lys Asp Gln Ala Ile Leu Val Ala Gly Gln Gln
 85 90 95
 Ile Ala Thr Asp Thr Ser Thr Leu Tyr Asn Arg Ser Ser Ile Asp Leu
 100 105 110
 Met Gly Phe Gly Met Thr Arg Tyr Ala Cys Arg Ala Ala Thr Ala Glu
 115 120 125
 Ala Gly Val Asn Val Lys Asp Ile Lys Val Cys Glu Leu His Asp Cys
 130 135 140
 Phe Ser Ala Asn Glu Met Ile Thr Ile Asp Ala Leu Glu Leu Cys Glu
 145 150 155 160
 Pro Gly Lys Ala His Glu Met Val Arg Lys Gly Asp Ile Thr Tyr Gly
 165 170 175
 Gly Lys Met Val Ile Asn Pro Ser Gly Gly Leu Ile Ser Lys Gly His
 180 185 190
 Pro Leu Gly Ala Thr Gly Leu Ala Gln Cys Ser Glu Leu Val Trp His
 195 200 205
 Leu Arg Gly Trp Ala Asn Asn Arg Leu Val Gln Gly Thr Asp Val Ala
 210 215 220
 Leu Gln His Asn Leu Gly Leu Gly Gly Ala Val Val Val Thr Val Tyr
 225 230 235 240
 Lys Arg Ala Asp Gly Lys Val Ala Ala Val Pro Ser Asp Val Val
 245 250 255
 Ala Lys Ile Thr Gly Leu Gly Tyr Asn Pro Ala Val Glu Ala Lys Gly

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<210> 31927
<211> 193
<212> PRT
<213> A.fumigatus
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<210> 31928
<211> 421
<212> PRT
<213> A.fumigatus
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<400> 31928															
Arg	Met	Ser	His	Ile	Ser	Arg	Lys	Ser	Thr	Thr	Ser	Thr	Gly	Ile	Tyr
1				5					10					15	
Glu	Thr	Asn	Met	Glu	Val	Tyr	Lys	Thr	Arg	Leu	Ser	Pro	His	Val	Leu
			20					25					30		
Pro	Ser	Ser	Pro	Ile	Ser	Thr	Pro	Leu	Ser	Ile	Leu	Asp	Ala	Thr	Val
			35				40					45			
Ala	Arg	Phe	Ala	Pro	Ala	Gly	Ala	Ile	Trp	Leu	Trp	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Asn	Leu	Pro	Glu	Thr	Asp	Phe	Ile	Asp	Cys	Leu	Gln	Ser	Leu	Phe
65					70					75					80
Ala	Gln	Thr	Leu	Ser	Asp	Tyr	Pro	Gln	Trp	Ala	Gly	Gln	Leu	Gln	Trp

				85				90					95
Ala	Pro	Val	Arg	Glu	Gly	Gly	Asn	His	Thr	Glu	Arg	Phe	Asn
				100				105					110
Met	Ile	Val	Tyr	Gly	Ala	Pro	Asp	Asp	Pro	Gly	Asp	Glu	Trp
				115				120					125
Val	Lys	Arg	Asp	Gly	Ile	Ser	Val	Gly	Thr	Leu	Val	Pro	Ser
				130				135					140
Glu	Arg	Ile	Ser	Ala	Gly	Ala	Trp	Asp	Gly	Ala	Asn	Phe	Pro
				145				150					155
Asp	Phe	Leu	Ser	Glu	Pro	Pro	Leu	Ala	Leu	His	Asp	Leu	Arg
				165				170					175
Gln	Gly	Leu	Pro	Ser	Met	Gln	Val	Gln	Ile	Thr	Leu	Leu	Lys
				180				185					190
Ala	Phe	Ala	Ile	Gly	Ile	Arg	Met	Ala	His	Val	Leu	Ala	Asp
				195				200					205
Thr	Leu	Met	Val	Phe	Val	His	Gln	Trp	Ala	Ala	Thr	Ser	Arg
				210				215					220
Phe	Gly	Ser	His	Asn	Ser	Lys	Ser	Leu	Met	Asp	Ala	Pro	Val
				225				230					235
Pro	Ala	Leu	Leu	Asp	Ala	His	Ala	Ala	Gly	Asp	Val	Asp	Gly
				245				250					255
Pro	Asp	Arg	Gly	Leu	Val	Ala	Thr	Ala	Arg	Glu	Leu	Pro	Leu
				260				265					270
Phe	Asp	Trp	Trp	Lys	Thr	Asp	Asp	Pro	Gly	Tyr	Pro	Lys	Val
				275				280					285
Pro	Asn	Thr	Leu	Asn	Ser	Met	Pro	Ser	Cys	Glu	Gln	Leu	Asp
				290				295					300
Glu	Leu	Ser	Pro	Ser	Thr	Ser	Ala	Pro	Trp	Thr	Ser	Trp	Asp
				305				310					315
Arg	Arg	Ile	Arg	Tyr	Thr	Gln	Ile	His	Ser	Ser	Gly	Asn	Gln
				325				330					335
Asp	Leu	Lys	Arg	Thr	Ala	Leu	Ala	Gln	Ser	Gln	Glu	Asp	Ile
				340				345					350
Leu	Asp	Ala	Leu	Leu	Ala	His	Leu	Gly	Ile	Ser	Ile	Asn	Arg
				355				360					365
Asn	Leu	Thr	Asn	Cys	Pro	Asp	Ser	Val	Phe	Leu	Asp	Leu	Ser
				370				375					380
Thr	Arg	Thr	Arg	Leu	Ser	Pro	Pro	Leu	Pro	Asp	Thr	Phe	Leu
				385				390					395
Pro	Leu	Phe	Leu	Thr	His	Val	Ser	Ser	Ala	Ala	Lys	Ala	Leu
				405				410					415
Ala	Phe	Ile	Arg	Gln									
				420									

<210> 31929

<211> 62

<212> PRT

<213> A.fumigatus

<400> 31929

Trp	Arg	Leu	Arg	Trp	Ser	Ala	Asn	Ser	Gly	Thr	Pro	Gly	Thr	Ala	Glu
1				5					10					15	
Phe	Gly	Asp	Gln	Asn	Ser	Phe	Val	Tyr	Ser	Gln	Phe	Tyr	Val	Glu	Ser
			20					25					30		
Pro	Gln	Thr	Ser	Thr	Asp	Trp	Phe	Asp	Gln	Leu	Arg	Gly	Asp	Leu	Leu
			35				40						45		

12423

His Glu Leu Asp His Pro Met Ser Gln Arg Asp Arg Asn Ala
50 55 60

<210> 31930
<211> 810
<212> PRT
<213> A.fumigatus

<400> 31930

Asp	Ser	Gly	His	Gln	Gly	Thr	Ala	Ala	Ala	Thr	Ser	Gln	Gly	Ala	Val
1			5						10					15	
Ser	Arg	Gly	Arg	Gln	Ser	Glu	Ala	Gly	Glu	Ser	Ser	Val	Arg	Met	Pro
		20						25					30		
Ser	Pro	Ser	Glu	Phe	Gln	Arg	Ala	Pro	Asp	Thr	Arg	Pro	Lys	Pro	Asn
		35					40					45			
Arg	Tyr	Ser	Ala	Pro	Ala	Glu	Asp	Leu	Leu	Ala	Gln	Arg	Phe	Ala	Lys
	50					55					60				
Leu	Arg	Ala	Ser	Pro	Tyr	Pro	Val	Asn	Gly	Gln	Asn	His	Pro	Asn	Lys
65					70					75					80
Gly	Gln	Asn	Gly	Ala	Thr	Thr	Thr	Pro	Ser	Pro	Pro	Lys	Tyr	Ser	Asn
			85						90					95	
Asp	Tyr	Pro	Pro	Arg	Pro	Phe	Ser	Tyr	Ile	Gln	Gln	Ser	Ser	Gln	Ser
		100						105						110	
Ser	Ala	Asn	Leu	Thr	Ser	Pro	Ser	Arg	Arg	Pro	Leu	Gly	Pro	Arg	Asn
		115					120					125			
Met	Gly	Thr	Asn	His	Asp	Leu	Pro	Asn	Pro	Pro	Pro	Lys	Ile	Pro	Leu
	130					135					140				
Asn	Thr	Ser	Leu	Pro	Arg	Ala	Pro	Asp	Pro	Ala	Tyr	Ser	Pro	Ile	Trp
145					150					155					160
Thr	Val	Pro	Ser	Gln	Pro	Pro	Ser	Asn	Pro	Pro	Arg	Thr	Ser	Thr	Glu
			165						170					175	
Ser	Ser	Arg	Pro	Val	Asn	Pro	Arg	Tyr	Ser	Gln	Leu	Ala	Asn	Ser	Pro
		180						185					190		
Arg	Gly	Ser	Pro	Ser	Arg	Gly	Gly	Leu	Asp	Asp	Asn	Pro	Tyr	Arg	Ser
	195					200						205			
Thr	Thr	Pro	Asn	Gly	Val	His	His	Val	Lys	Glu	Ala	Arg	Ser	Ser	Ser
	210					215					220				
Ala	Asp	Leu	Pro	His	Ser	Thr	Thr	Ile	Thr	Ala	Gln	Ala	Leu	Leu	Glu
225					230					235					240
Tyr	Leu	Arg	Lys	Tyr	His	Val	Leu	Leu	Ile	Asp	Val	Arg	Pro	Arg	Glu
			245						250					255	
Glu	Phe	Asp	Gly	Gly	His	Ile	Tyr	Ala	Lys	Ser	Ile	Ile	Cys	Ile	Glu
		260						265					270		
Pro	Val	Ala	Leu	Lys	Glu	Asn	Val	Ser	Ala	Glu	Glu	Leu	Glu	Glu	Arg
	275					280						285			
Leu	Val	Val	Ser	Pro	Glu	His	Glu	Gln	Ser	Leu	Phe	Glu	Arg	Arg	Asn
	290					295					300				
Glu	Phe	Asp	Leu	Val	Val	Tyr	Tyr	Asp	Gln	Lys	Thr	Asp	Ser	Val	Ser
305					310					315					320
Tyr	Leu	Ala	Gly	Ser	Pro	Val	Gly	Thr	Thr	Ala	Pro	His	Leu	Arg	Ala
			325						330					335	
Leu	His	Asp	Thr	Leu	Tyr	Glu	Phe	Asn	Glu	Tyr	Lys	Pro	Leu	Lys	Asp
		340						345					350		
Ala	Arg	Pro	Pro	Ala	Leu	Leu	Leu	Gly	Gly	Leu	Asp	Ala	Trp	Ile	Asp
	355					360						365			
Leu	Phe	Gly	Gln	Gln	Ser	Leu	Ala	Thr	Ser	Thr	Thr	Ala	Ala	Val	Met

370	375	380
Gly Ser Ile Gln Ala Lys Arg Pro Ala Met Arg Pro Gly Arg Pro Leu		
385	390	395
Gly Arg Val Pro Thr Met Ala Ser Ala Asn Ser Ser Leu Glu Val Arg		400
	405	410
Lys Arg Arg Leu Arg Glu Tyr Lys Pro Leu Asn Pro Glu Glu Leu Thr		415
	420	425
Ala Trp Met Glu Lys Ser Lys Asn Glu Glu Ile Asp Thr Ser Thr Tyr		430
	435	440
Ile Glu Glu Glu Val Leu Thr Glu Glu Pro Glu Asp Ala Ser Glu Gln		445
	450	455
Gln Glu Pro Pro Val Thr Pro Phe Val His Thr Tyr Glu Asp Phe Leu		460
465	470	475
Arg Arg Phe Pro Glu Pro His Ala Ile Gln Glu Ser Met Ile Val Pro		480
	485	490
His Ser Gln Pro Ser Ile Pro Ser Ser Thr Pro Asn Tyr Ala Ala Pro		495
	500	505
Val Pro Val Val Pro Ser Arg Pro Pro Pro Ala Val Pro Arg Pro Ser		510
	515	520
Tyr Ser Gly Val Ser Asp Gly Arg Gln Ile Gln Ala Pro Leu Glu Arg		525
	530	535
Gln Asn Ser Ala Thr Lys Thr Ala Leu Tyr Thr Pro Ser Ser Met Leu		540
545	550	555
Ser Arg Leu Lys Leu Pro Arg Thr Gly Leu Thr Asn Phe Gly Val Thr		560
	565	570
Cys Tyr Met Asn Ser Thr Ile Gln Cys Leu Ser Ala Thr Val Met Leu		575
	580	585
Ser Lys Phe Phe Ile Asp Asn Arg Phe Arg Phe Tyr Val Gln Lys Asn		590
	595	600
Trp Lys Gly Ser Gln Gly Ile Met Pro Gly Leu Phe Ala Asn Leu Ile		605
	610	615
Arg Ser Leu Trp Lys Asn Asp Val Glu Val Ile Met Pro Thr Ser Phe		620
625	630	635
Arg Asn Phe Cys Gly Arg Leu Asn Gln Glu Trp Ala Ile Asp Arg Gln		640
	645	650
Gln Asp Ala Lys Glu Phe Phe Asp Phe Val Val Asp Cys Leu His Glu		655
	660	665
Asp Leu Asn Ile Asn Trp Gln Arg Thr Pro Leu Arg Pro Leu Thr Phe		670
	675	680
Glu Glu Glu Met Gln Arg Glu Arg Met Pro Val Pro Lys Val Ser Lys		685
	690	695
Ile Glu Trp Asp Arg Tyr Cys His Arg Glu Glu Ser Phe Ile Ser Ser		700
705	710	715
Leu Phe Ala Gly Gln His Ala Ser Arg Leu Arg Cys Thr Thr Cys Lys		720
	725	730
Arg Thr Ser Thr Thr Tyr Glu Ala Phe Tyr Ser Ile Ser Val Glu Ile		735
	740	745
Pro His Thr Gly Thr Gly Asp Ile Tyr Gln Cys Leu Arg Ser Tyr Cys		750
	755	760
Gln Glu Glu Leu Leu Ser Gly Asp Glu Val Trp Lys Cys Pro Tyr Cys		765
	770	775
Lys Cys Gln Arg Val Ala Thr Lys Gln Ile Ile Ile Thr Arg Ala Pro		780
785	790	795
Glu His Thr Arg Val Phe Ser His Lys Arg		800
	805	810

<210> 31931
 <211> 419
 <212> PRT
 <213> A.fumigatus

<400> 31931

Leu	Leu	Arg	Thr	Leu	Ser	Tyr	Ile	Tyr	Thr	Glu	Pro	Val	Thr	Phe	Gln
1				5					10					15	
Gly	Pro	Met	Asn	Leu	Thr	Gly	Val	His	Cys	Ser	Pro	Pro	Ala	Gly	Thr
			20					25					30		
Leu	Gln	Gln	Glu	Arg	Ser	Pro	Gly	Asn	Phe	Ser	Arg	Leu	Thr	Phe	Val
		35					40					45			
Met	Glu	Asp	Gly	Ile	Arg	Pro	Ala	Arg	His	Arg	Glu	Ser	Arg	Val	Gln
	50					55					60				
Thr	Lys	Glu	Glu	Ser	Gly	Glu	Arg	Arg	Glu	Lys	Asn	Lys	Arg	Leu	Lys
65					70					75					80
Glu	Met	Gly	Gly	Val	Cys	Leu	Trp	Cys	Tyr	Arg	Leu	Lys	Lys	Thr	Cys
				85					90					95	
Glu	Pro	Gln	Leu	Pro	Cys	Pro	Arg	Cys	Gln	Asp	Ser	Lys	Ser	Asn	Cys
			100					105					110		
Ile	Arg	Arg	Pro	Ala	Glu	Leu	Ser	Leu	Leu	Pro	Cys	Gln	Asp	Met	Asn
		115					120					125			
Gln	Gly	Ser	Ile	Ser	Phe	Gln	Thr	Lys	Ser	Glu	Asp	Ile	Leu	Ser	Pro
	130					135					140				
Leu	Gln	Lys	Ile	Ser	Gln	Cys	Ala	Ser	Ser	Gln	Ala	Val	Val	Ser	Phe
145					150					155					160
Cys	Gln	Cys	Asn	Gly	Glu	Val	Ile	Asp	Tyr	Trp	Val	Met	His	Ala	Ala
			165					170						175	
Asn	Leu	Gly	Ala	Thr	Asn	Met	Asn	Thr	Ser	Ser	Gly	Leu	Gly	Gln	Gln
		180						185					190		
Leu	Ile	Leu	Lys	Leu	Leu	Lys	Cys	Val	Gln	Ser	Ala	Glu	Met	Asp	Lys
	195						200					205			
Phe	Glu	Thr	Glu	Phe	Pro	Gly	Ser	Ser	Leu	Val	Gln	Thr	Ala	Val	Thr
	210					215					220				
Met	His	Lys	Leu	Leu	Ser	Ala	Ile	Leu	Cys	Leu	Ser	Lys	Thr	Gln	Val
225					230					235					240
Tyr	Leu	Arg	Ala	Ser	Asp	Val	Glu	Gln	Thr	Arg	Ile	Val	Val	Ser	Phe
			245					250						255	
Met	Leu	Ala	Leu	Cys	Arg	Gln	Cys	Leu	Cys	Glu	Leu	Ser	Asp	Asp	Leu
		260					265						270		
Gly	Ser	Glu	Ala	Tyr	Ser	Leu	Ile	Lys	Gln	Lys	Ser	Asp	Tyr	Asp	Gly
	275					280						285			
Glu	Pro	Ala	Gly	Met	Lys	Asn	Asp	Cys	Ser	Gly	Ala	Ser	Cys	Val	Asn
	290					295					300				
Pro	Val	Trp	Val	Ala	Val	Gly	Leu	Tyr	His	Arg	Val	Leu	Glu	Ala	Leu
305					310					315					320
Ser	Ser	Phe	Glu	Leu	Pro	Pro	Pro	Ile	Ala	Asp	Ile	Phe	Asp	Lys	Val
			325						330					335	
Lys	Ile	Arg	Ser	Asn	Met	Val	Leu	Ser	Asn	Ile	Tyr	Cys	Val	Lys	Glu
		340					345					350			
Lys	Ile	Ala	His	Val	Phe	Gly	Ser	Lys	Leu	Glu	Lys	Glu	Lys	Leu	Glu
	355					360					365				
Ala	Glu	Lys	Val	Ser	Phe	Glu	Gln	Tyr	Ile	Pro	Pro	Val	Ser	Cys	Arg
	370					375					380				
Arg	Tyr	Phe	Asn	Val	Ala	Ile	Cys	Phe	Gly	Pro	Phe	Asp	Gln	Ser	Gln
385					390					395					400

12426

Pro Ser Thr Ala Ile His Arg Gln Ser Leu His Ala Gly Ala Gly Arg
 405 410 415
 Lys Arg Ile

<210> 31932
 <211> 154
 <212> PRT
 <213> A.fumigatus

<400> 31932
 Phe Pro His His Gly Leu His Trp His Ser Thr His Trp Thr Asp Met
 1 5 10 15
 Cys Ser Leu Cys His Thr Ser Gln Tyr Pro Cys Pro Leu Ser Pro Val
 20 25 30
 Ala Ala Ile Leu Ser Ala Val Pro Leu Thr Ile Asn Ser Val Phe Val
 35 40 45
 Phe Ile Cys Pro Met Gln Arg His Leu Tyr Met Val Leu Phe Ala Ala
 50 55 60
 Val Gln Ile Trp Thr Ile Leu Ile His Asp Gly Asp Met Ile Ser Gly
 65 70 75 80
 His Trp Thr Glu Lys Ile Ile Asn Ser Pro Ala His His Thr Leu His
 85 90 95
 His Met Tyr Phe Thr Val Asn Tyr Gly Gln Tyr Phe Thr Trp Ala Asp
 100 105 110
 Ala Tyr Phe Gly Ser His Arg Ala Pro Glu Pro Ala Leu Asp Pro Leu
 115 120 125
 His Asp Ala Leu Lys Val Met Arg Ala Lys Gly Leu Val Asp Glu His
 130 135 140
 Gly Asn Pro Ile Lys Lys Pro Lys Gly Glu
 145 150

<210> 31933
 <211> 271
 <212> PRT
 <213> A.fumigatus

<400> 31933
 Leu Leu Ser Asn Ser Gly Asn Cys Phe Ala Pro Thr Ser Pro Arg Ser
 1 5 10 15
 Leu Pro Gln Ser Leu Leu Tyr Val Ala Gln Arg Pro Ser Pro Arg Arg
 20 25 30
 Arg Gly Arg Pro Leu Thr Tyr Ser Pro Asp Gln Pro Ala Met Asp Val
 35 40 45
 Ala Leu Glu Phe Leu Asp Pro Leu Ile Leu Asp Lys Ala Tyr Ala Trp
 50 55 60
 Leu Leu Pro Ser Glu Pro Asn Val Pro Asp Pro Thr Ser Arg Trp Asp
 65 70 75 80
 Arg Asp Asn Val Tyr Arg Gln Val Ile Ser Ile Leu Val Leu Thr Gln
 85 90 95
 Leu Gly Ala Thr Ser Leu Tyr Leu Phe Phe Ser Ala Leu Ser Tyr Tyr
 100 105 110
 Phe Val Phe Asp Arg Arg Leu Glu Tyr His Pro Arg Phe Leu Pro Asn
 115 120 125
 Gln Val Arg Gln Glu Ile Lys Ser Ser Leu Ser Ala Ile Pro Phe Ile
 130 135 140

Asn Ile Leu Thr Leu Pro Trp Phe Leu Ala Glu Val Arg Gly Lys Ser
 145 150 155 160
 Met Leu Tyr Arg Ser Val Ser Asp Tyr Gly Trp Pro Trp Leu Val Val
 165 170 175
 Ser Ser Ile Leu Tyr Met Ala Phe Asn Asp Ile Gly Ile Tyr Trp Ile
 180 185 190
 His Arg Leu Glu His His Pro Ser Val Tyr Lys Tyr Ile His Lys Pro
 195 200 205
 His His Lys Trp Ile Gly Trp Ser Leu Gln Asn Ser His Val Pro Arg
 210 215 220
 Cys Met Leu Thr Arg Tyr Ser Ser His Thr Met Gly Cys Thr Gly Ile
 225 230 235 240
 Pro Pro Thr Gly Arg Ile Cys Ala Val Ser Ala Ile Pro Val Ser Ile
 245 250 255
 Pro Val His Cys Pro Leu Ser Gln Gln Ser Leu Ala Pro Ser Leu
 260 265 270

<210> 31934

<211> 560

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (188), (499)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31934

Met Ser Trp Ser Phe Gln Gln Arg Gly Pro Ser Pro Ala Pro Asp Glu
 1 5 10 15
 Glu Pro Asp Val Glu Met Arg Phe Leu Thr Phe Phe Val Leu Ala Ala
 20 25 30
 Ala Ala Cys Ala Ala Val Pro Tyr Glu Glu Tyr Ile Leu Ala Pro Ala
 35 40 45
 Thr Arg Asp Leu Val Pro Glu Arg Val Tyr Gln Val Ser Gly Ser Ile
 50 55 60
 Ser Asp Pro Ser Ala Val Thr His Ala Glu Gly Gly Lys Ala Thr Phe
 65 70 75 80
 His Gly Val Ser Ser Val Thr Tyr Asp Phe Gly Arg Asn Ile Ala Gly
 85 90 95
 Ile Val Ser Val Ala Val Ser Arg Val Ser Ser Pro Asp Ala Phe Ile
 100 105 110
 Gly Val Thr Phe Ser Glu Ser Ser Ala Trp Ile Ser His Glu Ala Cys
 115 120 125
 Asp Ala Thr Ala Asp Thr Gly Leu Asp Ser Pro Leu Trp Phe Pro Val
 130 135 140
 Gly His Gly Pro Gly Arg Tyr Thr Ala Glu Lys Lys His Asn Arg Gly
 145 150 155 160
 Ala Phe Arg Tyr Leu Thr Leu Phe Thr Asn Thr Ser Ala Thr Val Val
 165 170 175
 Val Asp Ser Val Arg Phe Asn Phe Thr Ala Val Xaa Thr Gln Asn Leu
 180 185 190
 Arg Ala Tyr Lys Gly Tyr Phe His Cys Asp Asp Glu Leu Leu Asn Arg
 195 200 205
 Ile Trp Tyr Ala Gly Ala Tyr Thr Asn Gln Leu Cys Thr Ile Asp His
 210 215 220

12428

Ser Met Gly Asn Ala Leu Pro Leu Leu Gly Thr Val Thr Ser Arg Asp
 225 230 235 240
 Asn Ile Thr Leu Pro Glu Thr Val Pro Trp Trp Ser Asn Tyr Thr Ile
 245 250 255
 Ala Asn Gly Ser Ser Val Leu Thr Asp Gly Ala Lys Arg Asp Arg Leu
 260 265 270
 Val Trp Pro Gly Asp Met Ser Ile Ala Leu Glu Ser Val Ala Val Ser
 275 280 285
 Thr Tyr Asp Leu Tyr Ser Val Arg Met Ala Leu Glu Ser Leu Phe Ala
 290 295 300
 Met Gln Gln Ala Asp Gly Arg Leu Pro Tyr Ala Gly Lys Pro Phe Tyr
 305 310 315 320
 Asp Thr Val Ser Tyr Thr Tyr His Leu His Ser Leu Ile Gly Val Ala
 325 330 335
 Tyr Tyr Tyr Arg Phe Ala Gly Asp Leu Asn Trp Leu Ala Ala His Trp
 340 345 350
 Thr Gln Tyr Lys Arg Ala Leu Gln Trp Ser Leu Ser Ser Ile Asp His
 355 360 365
 Thr Gly Leu Ala Asn Val Thr Ala Ser Ala Asp Trp Leu Arg Phe Gly
 370 375 380
 Met Gly Gly His Val Arg Pro Ala Pro His Ala Pro Thr Arg Ile Leu
 385 390 395 400
 Thr Lys His Lys Ala Glu His Arg Ser Lys Leu His Pro Leu Leu Arg
 405 410 415
 Pro Pro Gly Ile Pro Pro Pro Gly Asn Asn Pro Gln Arg His Arg Leu
 420 425 430
 Leu Leu Val Leu Val Pro His Arg Lys His Pro Gln Ser Leu Arg Gln
 435 440 445
 Arg Pro Thr Leu Gly Pro Ser Arg Arg Pro Leu Pro Arg Gln Arg Asn
 450 455 460
 His His Pro Pro Pro Thr Gly Arg Gln Arg Leu Gly Pro Gln Ser Gln
 465 470 475 480
 Pro His Leu Val Arg Asn Pro Ile Arg Arg His Leu Arg Arg Pro Leu
 485 490 495
 Gly Pro Xaa Gly Ala Ile Arg Arg Pro Arg Pro Arg Gly Arg Ile His
 500 505 510
 Arg Leu Pro Leu Leu His Arg Leu Arg Ala Ala Gly Pro Leu Pro Cys
 515 520 525
 Gly Pro Ala Ala Ala Arg Ser Gly Phe Asp Ala Pro Ala Val Gly Val
 530 535 540
 His Ala Gly Arg Ser Ala Asp Asp Pro Val Asp Val His Arg Gly Val
 545 550 555 560

<210> 31935

<211> 293

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (98)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31935

Leu Asn Thr Lys Gln Asn Ile Glu Ala Asn Ser Ile Leu Tyr Phe Val
 1 5 10 15

12429

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Leu Arg Glu Ser Leu Leu Leu Ala Thr Thr Leu Asn Asp Thr Ala Ser
      20                      25                      30
Ser Ser Ser Trp Ser Arg Ile Ala Ser Thr Leu Lys Ala Ser Ala Asn
      35                      40                      45
Ala Arg Leu Trp Asp Pro Ala Val Gly Leu Tyr Arg Asp Asn Glu Thr
      50                      55                      60
Thr Thr Leu His Pro Gln Asp Gly Asn Ala Trp Ala Leu Lys Ala Asn
      65                      70                      75                      80
Leu Thr Leu Ser Ala Thr Gln Ser Ala Ala Ile Ser Ala Ala Leu Ser
      85                      90                      95
Ala Xaa Trp Gly Pro Tyr Gly Ala Pro Ala Pro Glu Ala Gly Ser Thr
      100                     105                     110
Val Ser Pro Phe Ser Thr Gly Phe Glu Leu Gln Ala His Phe Leu Ala
      115                     120                     125
Gly Gln Pro Gln Arg Ala Leu Asp Leu Met Arg Arg Gln Trp Gly Phe
      130                     135                     140
Met Leu Asp Asp Pro Arg Met Thr Gln Ser Thr Phe Ile Glu Gly Tyr
      145                     150                     155                     160
Ser Thr Asp Gly Ser Leu His Tyr Ala Pro Tyr Arg Asn Asp Ala Arg
      165                     170                     175
Ile Ser His Ala His Gly Trp Ala Thr Gly Pro Thr Ala Ala Leu Met
      180                     185                     190
Phe Tyr Ala Ala Gly Leu Gln Ile Ala Gly Ala Gly Gly Glu Arg Trp
      195                     200                     205
Leu Phe Ala Pro Met Pro Gly Asp Leu Gln Ala Val Glu Ala Gly Phe
      210                     215                     220
Glu Thr Arg Leu Gly Arg Phe Ala Thr Glu Phe Thr Arg Gly Glu Glu
      225                     230                     235                     240
Gly Tyr Thr Lys Leu Val Phe Thr Thr Pro Glu Gly Thr Ser Gly Glu
      245                     250                     255
Val Arg Leu Glu Ala Glu Gly Val Leu Val Ser Gly Asn Gly Thr Arg
      260                     265                     270
Val Lys Leu Val Glu Gly Val Ser Thr Gly Leu His Gly Gly Thr Trp
      275                     280                     285
Arg Leu Thr Arg Val
      290

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<210> 31936

<211> 135

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (97)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31936

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Thr Gln Ser Arg Thr Ser Lys Gln Thr Pro Ser Ser Thr Ser Ser Ser
1                      5                      10                      15
Gly Asn Pro Ser Ser Trp Gln Gln Pro Ser Thr Thr Pro Pro Pro Pro
      20                      25                      30
Arg Pro Gly Pro Ala Ser Gln Ala Pro Ser Lys Pro Pro Pro Thr Pro
      35                      40                      45
Asp Ser Gly Thr Gln Pro Ser Ala Ser Thr Ala Thr Thr Lys Pro Pro
      50                      55                      60

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12430

Pro Ser Thr His Arg Thr Ala Thr Pro Gly Pro Ser Lys Pro Thr Ser
 65 70 75 80
 Pro Cys Pro Gln Pro Asn Pro Pro Pro Ser Pro Pro Pro Ser Arg Pro
 85 90 95
 Xaa Gly Gly His Thr Ala Pro Pro Pro Gln Arg Gln Asp Pro Pro Ser
 100 105 110
 Pro Pro Ser Pro Pro Ala Ser Ser Cys Arg Pro Thr Ser Leu Arg Ala
 115 120 125
 Ser Arg Ser Ala Leu Trp Ile
 130 135

<210> 31937

<211> 350

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (254)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31937

Pro Arg Leu Val Leu Gln Ala Val Lys Arg Ser Arg Lys Trp Asn Ala
 1 5 10 15
 Phe Phe Phe Ser Cys Cys Trp His Lys His Arg Thr Ser Thr His Thr
 20 25 30
 His Thr His Ser Thr Leu Ser Ile Pro Val Gln His Leu Ser Asp Cys
 35 40 45
 Met Gly Ser Arg His Met Lys Asn Thr Leu His Pro Arg Gln Pro Pro
 50 55 60
 Ser Pro Thr Met Gln Pro Arg Arg Asn Pro Leu Asn Lys Leu Asn Pro
 65 70 75 80
 Arg Pro Ile Pro Arg Asp Gln His Ala Leu Arg Leu Gln Pro His Leu
 85 90 95
 Pro Thr Arg Pro Leu Arg Arg Arg Lys His Gln Leu Arg Ile Ser Leu
 100 105 110
 Leu Pro Pro Arg Glu Leu Arg Cys Lys Pro Pro Gln Thr Arg Leu Glu
 115 120 125
 Pro Gly Leu Asn Ser Leu Gln Ile Pro Arg His Gly Arg Glu Gln Pro
 130 135 140
 Pro Leu Pro Thr Arg Pro Arg Asn Leu Gln Ser Gly Arg Ile Glu His
 145 150 155 160
 Gln Arg Arg Arg Arg Ala Arg Ser Pro Pro Val Arg Met Arg Asp Pro
 165 170 175
 Cys Ile Ile Pro Ile Arg Arg Ile Val Gln Arg Pro Ile Arg Thr Ile
 180 185 190
 Pro Leu Asp Glu Arg Arg Leu Gly His Pro Arg Ile Val Gln His Glu
 195 200 205
 Pro Pro Leu Pro Ala His Gln Ile Gln Ser Ala Leu Arg Leu Ala Arg
 210 215 220
 Lys Glu Val Gly Leu Gln Leu Glu Ala Gly Gly Glu Gly Gly Asp Gly
 225 230 235 240
 Gly Ser Cys Leu Trp Gly Gly Gly Ala Val Trp Pro Pro Xaa Gly Arg
 245 250 255
 Glu Gly Gly Gly Asp Gly Gly Gly Leu Gly Cys Gly Gln Gly Glu Val
 260 265 270

12431

Gly Phe Glu Gly Pro Gly Val Ala Val Leu Trp Val Glu Gly Gly Gly
 275 280 285
 Phe Val Val Ala Val Glu Ala Asp Gly Trp Val Pro Glu Ser Gly Val
 290 295 300
 Gly Gly Gly Phe Glu Gly Ala Cys Asp Ala Gly Pro Gly Arg Gly Gly
 305 310 315 320
 Gly Gly Val Val Glu Gly Cys Cys Gln Glu Glu Gly Phe Pro Glu Asp
 325 330 335
 Glu Val Glu Asp Gly Val Cys Phe Asp Val Leu Leu Cys Val
 340 345 350

<210> 31938
 <211> 591
 <212> PRT
 <213> A.fumigatus

<400> 31938
 Gly Arg Met Ser Pro Asp Glu Val Ser Leu Pro Ser Pro Tyr Lys Ser
 1 5 10 15
 Thr Ala Ala Ser Leu Val Asp Val Phe Lys Thr Leu Gly Val Ala Arg
 20 25 30
 Ser Arg Ser Gln Thr Pro Leu Ser Leu Glu Asp Asp Ser Ser His Ser
 35 40 45
 Leu Ser His Thr Thr Asp Ala Arg Arg Asn Asn Phe Leu Val Leu Gly
 50 55 60
 Phe Glu Ser Met His Arg Gly Ser Val Val Ser Ser Ser Ser Asp Thr
 65 70 75 80
 Pro Arg Ala Pro Asp Phe Glu Thr Ser Leu Arg Asn Leu Ser Gln Thr
 85 90 95
 Gln Asn Leu Ala His Ala Ile Asp Glu Ala Glu His Val Ser Arg Ser
 100 105 110
 Leu Gln Trp Phe Thr Ser Asp Gln Ser Ile Ala Leu Trp Glu Ala Gly
 115 120 125
 Ser Tyr Leu Ile His Asn Pro Asp Ser Pro Asp Ala Arg Arg Ser Gly
 130 135 140
 Ser Met Leu Ile Glu Ala Val Ala Ala Arg Gln Asp Leu Ser Pro Ser
 145 150 155 160
 Gly Arg Arg Ile Val Phe Glu Ala Ile Ser Cys Ser Ser Glu Pro Asp
 165 170 175
 Val Ile Pro Ala Arg Val Gln Ser Leu Ile Ser Leu Ser Asp His Gly
 180 185 190
 Arg Lys Leu Asp Phe Thr Ser Ser Ser Ile Leu Pro Ile Leu Ser Ser
 195 200 205
 Cys Ala Val Pro Leu Tyr Glu Leu Ile Ser Ser Ser Arg Leu Lys Ala
 210 215 220
 Arg Lys Ala Lys Val Gly Lys Val Asn Gly Leu Gly Tyr Asp Glu Thr
 225 230 235 240
 Ala Leu Asp Asp Leu Leu Gln Phe Ala Val Asp Leu Ile Thr Leu Gln
 245 250 255
 Arg Lys Arg Pro Ser Ala Glu Glu Val Glu Ser Leu Leu Asp Gln Ile
 260 265 270
 Phe Thr Ile Cys Lys Lys Thr Ser Val Ala Ala Asp Ile Lys Asn Ser
 275 280 285
 Leu Ala Val Phe Asp Ala Val Ile Leu Tyr Ala Asp Val Pro Asp Gly
 290 295 300
 Ser Phe Val Pro Met Leu Glu Val Leu Cys Ser Ile His Ala Ser Val

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305          310          315          320
Lys Ser Leu Ser Gly Pro Thr Ser Arg Ala Val Arg Asn Leu Ala Lys
          325          330          335
Ser Arg Trp Gln Thr Glu Met Ile Asn Thr Leu Asp Ser Phe Leu Met
          340          345          350
Asp Ser Ser Gly Glu Glu Ser Arg Asn Ile Asn Val Leu Arg Gly Thr
          355          360          365
Val Tyr Ile Phe Thr Asp Leu Val Arg Ala His Gly Gln Asp Gly Ile
          370          375          380
Pro Gln Leu Arg Phe Glu His Leu Met Asp Cys Leu Glu Val Val Ile
385          390          395          400
Arg Lys Asp Asp Ser Arg Leu Glu Ala Asp Val Leu Glu Leu Cys Leu
          405          410          415
Asn Ile Leu Asp Gly Asp Phe Ala His Val Ala Leu Glu Ser Ser Trp
          420          425          430
Ser Gly Phe Val Arg Val Leu Asn Ser Cys Ser Leu Arg Ala Ile Gly
          435          440          445
Glu Cys Glu Glu Arg Ala Ala Ser Ile Ser Ser Ser Gln Ser Pro Phe
          450          455          460
Ser Lys Thr Ser Thr Ser Glu Asp Ala Lys Ser Asn Ile Leu Ala Asn
465          470          475          480
Ala Val Gln Ile Ala Ala Thr Val Glu Ser Leu Trp Asp Arg Leu Ser
          485          490          495
Arg Glu Gln Lys Leu Glu Ala Thr Arg Phe Leu Met Asn Leu Cys Glu
          500          505          510
His Ile Glu Pro Ser Gln Ala Glu Leu Val Ile Asn Thr Met Arg Ser
          515          520          525
Glu Asn Leu Cys Leu Pro Ser Arg Ser Asp Trp Val Asn Tyr Cys Gln
          530          535          540
Arg Leu Ile Arg Cys Phe Ile Arg Ser Arg Asn Lys Pro Ser Asp Ile
545          550          555          560
Arg Ile Ser Ala Leu Asp Leu Leu Lys Glu Ala Phe Ser Thr Tyr Asp
          565          570          575
Ala Leu Val Phe Phe Lys Gly Arg Arg Val Ala Pro Pro Tyr Ala
          580          585          590

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<210> 31939

<211> 93

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (39)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31939

```

Ser Glu Ser Arg Cys Met Ile Glu Ser Ser Glu Trp Met Glu Glu Leu
1          5          10          15
Met Glu Glu Val Asp Arg Gln Ser Ile Met Gln Gly Pro Ile Leu Gly
          20          25          30
Val Phe Val Trp Gly Ile Xaa Asn Met Pro Lys Tyr Arg Pro Thr Thr
          35          40          45
Asp Pro Ser Gln Ala Leu Phe Val Leu Thr Thr Val Gln Lys Ile Pro
          50          55          60
Val Glu Leu Tyr Phe Met Glu Gly Leu Glu Ile Gly Thr Ile Val Tyr

```

[illegible]

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<210> 31940
<211> 617
<212> PRT
<213> A.fumigatus
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<400> 31940																
Val	Asn	Thr	Ala	Ser	Val	Ser	Lys	Val	Ser	Leu	Lys	Met	Glu	Tyr	Phe	
1				5					10					15		
Asp	Phe	Asp	Gly	Ala	Ser	Phe	Gly	Ser	His	Ala	Pro	Asp	Asp	Glu	Val	
			20					25					30			
Ala	Ser	Asp	Arg	Phe	Glu	Leu	Asp	Glu	Asn	Asp	Ala	Ile	Glu	Asn	Tyr	
		35					40					45				
Glu	Ser	Leu	Leu	Arg	Glu	Gln	Pro	Leu	Asp	Phe	Pro	Asn	Asp	Leu	Pro	
	50					55					60					
Glu	Gln	Asp	Ala	Leu	Asn	Pro	Gln	Thr	Glu	Ala	Pro	Ser	Val	Asn	Ala	
65				70						75					80	
Gln	Ser	Asn	Asn	Ala	Leu	Pro	Ile	His	Arg	Ala	Lys	Glu	Pro	Cys	Asp	
			85					90						95		
Phe	Cys	Arg	His	Met	Asn	Leu	Asp	Cys	Phe	Ile	Ser	Asp	Arg	Gly	Ala	
			100					105						110		
Leu	Gln	Asn	Gly	Cys	Thr	Cys	Cys	Val	Ile	Leu	Phe	Arg	Glu	Cys	Ser	
		115					120						125			
Phe	Thr	His	Ala	Lys	Lys	Pro	Gly	Lys	Tyr	Met	Glu	Thr	Leu	Gln	Ser	
	130					135						140				
Ile	Ser	Glu	Asn	Ala	Asp	Ile	Pro	Thr	Val	Gly	Pro	Lys	Gly	Arg	Lys	
145					150					155					160	
Thr	Leu	Lys	Ser	Leu	Thr	Gly	Met	Thr	Ile	Ser	Glu	Asp	Met	Glu	Gly	
			165						170					175		
Arg	Gly	Arg	Lys	Ser	Ser	Ser	Arg	Leu	Ser	Arg	Asp	Ala	Val	Arg	Ile	
			180					185						190		
Leu	Lys	Thr	Trp	Leu	Leu	Glu	His	Leu	Asp	His	Pro	Tyr	Pro	Ser	Glu	
		195					200					205				
Gln	Glu	Lys	Asp	Glu	Leu	Lys	Lys	Arg	Thr	Gly	Leu	Lys	Arg	Ser	Gln	
	210					215					220					
Ile	Ser	Asn	Trp	Leu	Ala	Asn	Ala	Arg	Arg	Arg	Gly	Lys	Ala	Arg	Pro	
225					230					235					240	
Leu	Pro	Pro	Ser	Asn	Ser	Ser	Val	Pro	Gly	Ala	Ile	Asn	Ile	Pro	Gly	
			245						250					255		
Gln	Gln	Gln	Gln	Gln	Gln	Pro	Asn	Ile	Ala	Leu	Met	Thr	Pro	Leu	Glu	
			260					265						270		
Arg	Trp	Lys	Tyr	Ser	Pro	Pro	Glu	Asn	Glu	Pro	Ala	Ser	Thr	Thr	Asp	
		275					280					285				
Ile	Leu	Arg	Ala	Leu	Val	Asn	Asn	Pro	Leu	Asp	Ser	Thr	Arg	Gln	Pro	
	290					295					300					
Gly	His	Val	Arg	Ser	Leu	Ser	Arg	Lys	Gly	Ser	Ser	Asn	Asp	Ser	Ser	
305					310					315					320	
His	Ala	Asn	Ser	Asn	Ile	Phe	Lys	Ala	Pro	Ser	Ile	Ser	Ser	Leu	Gly	
			325						330					335		
Glu	Ser	Arg	Ser													

12434

Arg Lys Glu Arg Arg Arg Arg Arg Lys Pro Ser Thr Ala Leu Asn Thr
 370 375 380
 Phe Asn Gln Gln Lys Ala Arg Asn Ser Arg Ile Phe Gln Cys Thr Phe
 385 390 395 400
 Cys Thr Glu Thr Phe Ala Thr Lys Tyr Asp Trp Gln Arg His Glu Lys
 405 410 415
 Ser Leu His Leu Ala Leu Asp Lys Trp Thr Cys Ser Pro Gln Gly Gly
 420 425 430
 Val Val Tyr Val Asn Gly Ala Asn Arg Cys Val Phe Cys Met Ala Ser
 435 440 445
 Asp Pro Asp Thr Asp His Leu Glu Ser His Cys Tyr Ser Thr Cys Gln
 450 455 460
 Glu Lys Thr Leu Ala Glu Arg Thr Phe Tyr Arg Lys Asp His Leu Asn
 465 470 475 480
 Gln His Leu Arg Leu Met His Asn Val Lys Phe Asn Ser Tyr Met Asn
 485 490 495
 Gln Trp Gln Ser Thr Thr Thr Glu Leu Lys Ser Arg Cys Gly Phe Cys
 500 505 510
 Gly Thr Thr Leu Thr Thr Trp Lys Asp Arg Val Glu His Leu Ala Ala
 515 520 525
 His Phe Lys Asn Gly Ala Asp Met Thr Gln Trp Gln Gly Asp Trp Gly
 530 535 540
 Phe Glu Pro Phe Val Gln Gly Leu Val Glu Asn Ala Met Pro Pro Tyr
 545 550 555 560
 Leu Ile Gly Gln Asp Arg Lys Thr Leu Asn Pro Tyr Thr Thr Ser Lys
 565 570 575
 Phe Leu Gly Gln Ser Cys Cys Ser Pro Thr Thr Ala Ser Pro Gly Leu
 580 585 590
 Ile Glu Pro Asn Asp Val Asn Cys Phe His Arg Leu Gln Arg Glu Leu
 595 600 605
 Thr Ala Tyr Ile His Lys Gln Val Ala
 610 615

<210> 31941

<211> 297

<212> PRT

<213> A.fumigatus

<400> 31941

Arg Ala Leu Ile Phe Gln Pro Arg Arg Val Arg Arg Asp Val Tyr Pro
 1 5 10 15
 Arg Asp Gly Gln Asp Ser Thr Glu Ala His Ile Asp Ser Gln Asn Pro
 20 25 30
 Gln Gly Pro Asn Gly Thr Glu Ser Ser Gln Lys Ser Thr Gly Arg Lys
 35 40 45
 Ser Lys Lys Lys Lys Gly Lys Lys Gly Arg Asn Gly Ser His Ala Gln
 50 55 60
 Gly Asp Glu Thr Ser Thr Pro Met Ser Thr Pro Ser Val Ser Met Ser
 65 70 75 80
 His Pro Leu Pro Pro Pro Leu Ser Ser His Leu Ala Ser His Asn Ile
 85 90 95
 Leu Lys Pro Ala Lys Asn Arg Ser Ile Trp Asn Thr Ser Thr Gln Glu
 100 105 110
 Glu Arg Glu Asn Ile Lys Thr Phe Trp Leu Glu Leu Gly Glu Glu Glu
 115 120 125
 Arg Arg Gln Leu Val Lys Val Glu Lys Asp Ala Val Leu Lys Lys Met

130		135		140
Lys Glu Gln Gln Arg	His Ser Cys Ser Cys Thr Val Cys Gly Arg Lys			
145	150	155	160	
Arg Thr Ala Ile Glu Glu Glu Leu Glu Val Leu Tyr Asp Ala Tyr Tyr				
	165	170	175	
Glu Glu Leu Glu Gln Tyr Ala Asn His Asn Gln Gly Ser Phe Glu Lys				
	180	185	190	
Gly Ser Pro Met Val Pro Pro Pro Arg Leu Tyr Gln Pro Pro Leu Arg				
	195	200	205	
Ser Pro Gly Gln His Thr Arg Thr Gln Gly Gln Phe His Pro Ser Arg				
	210	215	220	
Gly Arg Ile His Glu Leu Thr Glu Asp Asp Asp Leu Glu Glu Asp Tyr				
225	230	235	240	
Asp Glu Glu Glu Asp Asp Gly Asp Glu Pro Tyr Ser Asp Glu Glu Leu				
	245	250	255	
Asp Glu Glu Asp Glu Glu Thr Arg Ala Ala Arg Ala Asp Phe Phe Ala				
	260	265	270	
Phe Gly Asn Ser Leu Thr Val Lys Gly Lys Ala Asp Val Pro Pro Ala				
	275	280	285	
Phe Asp His Ser Asn Arg Ile Leu Tyr				
290	295			

<210> 31942

<211> 503

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (267), (270), (274), (275), (283), (286)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31942

Ser Lys Asn Ser Trp Arg Arg Arg Leu Gly Thr Asn Ser Glu Met Leu	
1	5 10 15
Arg Lys Leu Gly Lys Arg Lys Asn Gly Lys Thr Lys Lys Asp Phe Arg	
	20 25 30
Asn Arg Pro Arg Lys Arg Asn Ala Arg Val Gly Lys Arg Arg Arg Leu	
	35 40 45
Gln Arg Lys Gln Leu Pro Arg Arg Asn Arg Arg Arg Asn Leu Arg Asn	
	50 55 60
Ser Glu Arg Asn Gly Arg Ser Ser Gly Arg Arg Lys Lys Gln Asn Gly	
65	70 75 80
Arg Pro Lys Lys Arg Ser Val Arg Ala Lys Arg Arg Lys Ser Leu Asp	
	85 90 95
Val Ser Val Arg Asn Glu Ser Asp Arg Pro Lys Arg Ser Glu Ser Ser	
	100 105 110
Ala Arg Arg Arg Asn Asp Ala Lys Arg Leu Gly Gly Lys Lys Lys Lys	
	115 120 125
Asn Ala Asn Cys Gly Lys Arg Arg Gln Arg Lys Ser Ala Thr Ala Arg	
	130 135 140
Leu Arg Ser Asn Lys Pro Arg Arg Ile Gln Gln Lys Ala Glu Arg Lys	
145	150 155 160
Pro Lys Ile Arg Arg Ser Val Met Ile Lys Pro Asn Gly Arg Arg Asn	
	165 170 175
Arg Tyr Leu Ser Leu Phe Arg Arg Ile Tyr Ile Ile Phe Arg Ala Phe	

180	185	190
Pro Arg Leu Ser Leu Ile Arg Arg Thr Ser His Pro Gln His Leu Cys		
195	200	205
Tyr Leu Lys Leu Leu Leu Leu Pro Asn Pro Val Ser His Pro Asn Lys		
210	215	220
Ile Leu Ile Pro Pro Arg His Thr Pro Lys Pro Leu Ala Pro Thr Gly		
225	230	235
Phe Gln Gly Tyr Leu Phe Ser Ser Phe Asp Ala Arg Val Ser Val Ile		
245	250	255
Gly Ser Cys Gln Trp Glu Phe Ala Thr Arg Xaa Arg Glu Xaa His Ala		
260	265	270
Met Xaa Xaa Gln Pro Gln Leu Phe Thr Pro Xaa Ser Pro Xaa Gly Arg		
275	280	285
Ser Ile Pro Pro Gly Phe Ser Ser Val Asn Gly Ile Pro Pro Asn Pro		
290	295	300
Pro Gly Leu Ser Gly Met Val Ala Arg Pro Pro Val Gly His Asp Leu		
305	310	315
Pro Ser Tyr Pro Ser His Ser Gly Pro Phe Ile Ser Pro Phe Arg Gly		
325	330	335
Tyr Pro Ala Pro Thr Gly Ile Pro Ala Pro Pro Gly Ile Asn Gly Ala		
340	345	350
Arg Pro Met Pro Pro Gly Arg Gly Phe Pro Leu Glu Pro Ala Gln Gly		
355	360	365
Phe Ala Phe His Gly Gln Gln Ile Pro Gly Ala Phe Ser Thr Pro Gln		
370	375	380
Gly Gly Leu Pro His Arg His Ser Arg Gln Pro Ser Gly Ser Leu Glu		
385	390	395
Arg Ser Pro Leu Glu Asn His Ala Gln Pro Met Pro Ile Ser Arg Pro		
405	410	415
Ser Pro Ile Lys Arg Pro Ser Ser Thr Gln Gln Asp Gln Gln Lys Gly		
420	425	430
Asp Asp Arg Thr Thr Gln Arg Asp Val Asp Asp Leu Ser Ala His Leu		
435	440	445
Gly Ser Ser Ala Leu Leu Asp Asp Ser Asp Val Ser Leu Ser Ser Asn		
450	455	460
Leu Ser Gln Ser Leu Pro Gly Ala Thr Val Pro Gly Thr Phe Ser Gly		
465	470	475
Pro Ala Arg Ala Ser Phe Gly Gly Pro Ser Leu Phe Pro Asp Pro Leu		
485	490	495
Ser Gly Lys Phe Leu Arg Leu		
500		

<210> 31943

<211> 127

<212> PRT

<213> A.fumigatus

<400> 31943

Cys Ala Ala Ser Phe Arg Ser Phe Gln Gln Asn Pro Val Leu Ile Ser		
1	5	10
Ser Phe Phe Pro Ser Leu Ser Glu Ile Asp Gly Ile Leu Thr Val Ala		
20	25	30
Asp Asp Leu Leu Lys Asn Asp Gly Lys His Phe Ile Asp Met Met Glu		
35	40	45
Gln Leu Ala Glu Arg Arg Met Gln Arg Glu Glu Asp Thr Gln Tyr Gly		
50	55	60

12437

Ile	Ala	Ala	Ala	His	Glu	Ser	Leu	His	Ser	Gly	His	Asn	His	Gly	Pro
65					70					75					80
Phe	Asp	Asp	Glu	Asp	Tyr	Asp	Asp	Glu	Glu	Asp	Glu	Asp	Tyr	Asp	Ser
				85					90					95	
Gln	Glu	Glu	Glu	Asp	Tyr	Glu	Glu	Asp	Glu	Met	Val	Cys	Pro	Gly	Val
			100					105					110		
Val	Pro	Pro	Leu	Arg	Gly	Ile	Arg	Pro	Leu	Cys	Phe	Val	His	Arg	
			115				120					125			

<210> 31944

<211> 350

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (315), (318), (322), (323), (331), (334)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31944

Pro	Leu	Pro	Gln	Asp	Ala	Met	Thr	Glu	Glu	Gln	Arg	Met	Glu	Glu	Gly
1				5					10					15	
Arg	Arg	Met	Phe	Gln	Ile	Phe	Ala	Ala	Arg	Met	Phe	Glu	Gln	Arg	Val
			20					25					30		
Leu	Thr	Ala	Tyr	Arg	Glu	Lys	Val	Ala	Glu	Gln	Arg	Gln	Gln	Lys	Leu
		35					40					45			
Ile	Glu	Glu	Leu	Met	Glu	Glu	Thr	Arg	Asn	Glu	Gln	Arg	Asn	Ala	
	50				55				60						
Lys	Lys	Ala	Arg	Glu	Ala	Gln	Lys	Arg	Lys	Asp	Lys	Lys	Arg	Leu	Gln
65				70					75					80	
Lys	Gln	Ala	Lys	Glu	Glu	Arg	Ala	Arg	Arg	Glu	Ala	Glu	Lys	Ala	
			85					90					95		
Ala	Glu	Glu	Ala	Ala	Lys	Ala	Glu	Gln	Glu	Lys	Lys	Leu	Glu	Glu	
			100				105					110			
Gln	Arg	Lys	Lys	Arg	Glu	Glu	Gln	Arg	Lys	Lys	Lys	Glu	Ala	Glu	Arg
		115					120					125			
Lys	Ala	Gln	Glu	Glu	Glu	Arg	Ala	Arg	Lys	Glu	Ala	Glu	Lys	Leu	Arg
	130					135				140					
Arg	Gln	Arg	Glu	Glu	Arg	Glu	Arg	Gln	Ala	Glu	Ala	Glu	Arg	Lys	Gln
145					150					155				160	
Arg	Glu	Glu	Lys	Lys	Arg	Arg	Glu	Glu	Ala	Arg	Arg	Lys	Glu	Lys	Glu
			165						170				175		
Glu	Arg	Glu	Leu	Arg	Glu	Lys	Lys	Ala	Lys	Glu	Glu	Arg	Asp	Arg	Lys
			180					185					190		
Ala	Gln	Glu	Gln	Gln	Ala	Lys	Lys	Asp	Thr	Ala	Lys	Gly	Gly	Glu	Glu
	195					200						205			
Ala	Lys	Asp	Gln	Glu	Lys	Arg	Asp	Asp	Gln	Ala	Lys	Arg	Ser	Ser	Gln
	210					215						220			
Gln	Val	Pro	Val	Pro	Ile	Pro	Thr	Asn	Leu	His	His	Leu	Gln	Gly	Leu
225					230				235						240
Ser	Pro	Thr	Val	Ala	His	Ser	Pro	His	Val	Pro	Ser	Ala	Thr	Pro	Val
			245						250					255	
Leu	Pro	Lys	Ala	Pro	Thr	Pro	Ala	Lys	Pro	Arg	Gln	Pro	Ser	Gln	Gln
			260					265					270		
Asp	Ser	His	Ser	Ser	Ser	Pro	His	Ser	Gln	Ala	Pro	Ser	Thr	Asp	Arg
			275				280						285		

12438

Phe Ser Gly Leu Pro Phe Phe Phe Val Arg Cys Pro Gly Leu Ser His
 290 295 300
 Arg Glu Leu Pro Val Gly Ile Arg Asn Lys Xaa Gln Gly Xaa Ser Cys
 305 310 315 320
 Asn Xaa Xaa Ser Thr Ser Ala Phe Tyr Ala Xaa Val Pro Xaa Arg Gln
 325 330 335
 Ile His Ser Ser Trp Ile Leu Glu Arg Gln Arg Asn Thr Thr
 340 345 350

<210> 31945
 <211> 64
 <212> PRT
 <213> A.fumigatus

<400> 31945
 Arg Leu Arg Gln Ile Arg Gly Glu Arg Asn Ile Thr Val Ile Lys Glu
 1 5 10 15
 Ser Thr Ala Thr Lys Met Gly Ala Gln Ile Ile His Ile Pro Leu Cys
 20 25 30
 Gly Ala Ile Ile Thr Leu Leu Leu Val Leu Leu Gly Ala Gly Trp Ser
 35 40 45
 Phe Asp Arg Ala Arg Ser Arg Asn Trp His Arg Leu Cys Val Ile Leu
 50 55 60

<210> 31946
 <211> 231
 <212> PRT
 <213> A.fumigatus

<400> 31946
 Ile Arg Arg Asn Arg Asp Arg Tyr Leu Leu Arg Arg Pro Phe Gly Leu
 1 5 10 15
 Ile Ile Thr Leu Leu Leu Ile Phe Gly Phe Leu Ser Ala Phe Cys Cys
 20 25 30
 Ile Leu Leu Gly Leu Leu Leu Leu Ser Leu Ala Val Ala Leu Phe Leu
 35 40 45
 Cys Leu Leu Phe Pro Gln Phe Ala Phe Phe Phe Phe Phe Pro Pro Ser
 50 55 60
 Leu Phe Ala Ser Phe Leu Leu Leu Ala Leu Leu Ser Leu Arg Phe Gly
 65 70 75 80
 Leu Ser Leu Ser Phe Leu Thr Leu Thr Ser Lys Leu Phe Arg Leu Phe
 85 90 95
 Ala Arg Thr Leu Leu Phe Leu Gly Leu Pro Phe Cys Phe Phe Leu Leu
 100 105 110
 Pro Leu Leu Leu Pro Phe Leu Ser Leu Phe Leu Lys Phe Leu Leu Leu
 115 120 125
 Phe Arg Leu Gly Ser Cys Phe Leu Cys Ser Leu Leu Arg Phe Pro Thr
 130 135 140
 Arg Ala Phe Leu Phe Leu Gly Leu Phe Leu Lys Ser Phe Phe Val Phe
 145 150 155 160
 Pro Phe Leu Arg Phe Pro Ser Phe Leu Ser Ile Ser Leu Phe Val Pro
 165 170 175
 Ser Leu Leu Leu His Glu Phe Phe Asp Gln Leu Leu Leu Pro Leu Leu
 180 185 190
 Gly Asp Leu Phe Ser Val Cys Ser Gln Asp Ala Leu Leu Glu His Ser
 195 200 205

12439

Gly Arg Lys Tyr Leu Lys His Pro Ser Ala Phe Phe His Ala Leu Phe
 210 215 220
 Phe Cys His Gly Ile Leu Arg
 225 230

<210> 31947
 <211> 135
 <212> PRT
 <213> A.fumigatus

<400> 31947
 Gln Ser Ala Tyr Tyr Gly Arg Thr Pro Thr Thr Thr Ile Ile Ile Thr
 1 5 10 15
 Ala Gly Val Gln Lys Tyr Arg Ala Ser Ser Gln Ile Ala Phe Cys Ile
 20 25 30
 Met Arg Pro Ser His Leu Gly Leu Leu Ala Arg Arg Ser Trp Ile Cys
 35 40 45
 Thr Arg Cys Arg Val Ala Asn Tyr Ser Ser Val Ala Pro Ala Arg Ala
 50 55 60
 Gly Lys Ser Lys Lys Asn Leu Pro Asp Ala Pro Ala Arg Thr Arg Phe
 65 70 75 80
 Ala Pro Ser Pro Thr Gly Tyr Leu His Leu Gly Ser Leu Arg Thr Ala
 85 90 95
 Leu Phe Asn Tyr Leu Leu Ala Lys Arg Thr Gly Gly Gln Phe Leu Leu
 100 105 110
 Arg Ile Glu Asp Thr Asp Gln Val Arg Pro Trp Ser Lys His Gly Thr
 115 120 125
 Leu Glu Cys Cys Asp Gln Gly
 130 135

<210> 31948
 <211> 189
 <212> PRT
 <213> A.fumigatus

<400> 31948
 Asp Ala Leu Leu Gln Ser Glu Arg Thr Ala Ile Tyr Arg Glu His Ala
 1 5 10 15
 Asn Gln Leu Val Gln Asn Gly His Ala Tyr Arg Cys Phe Cys Ser Pro
 20 25 30
 Glu Arg Leu Asp Ser Leu Ala Arg His Arg Ser Gln Ala Gly Leu Pro
 35 40 45
 Pro Gly Tyr Asp Arg Gln Cys Ala Asp Ile Ser Ala Glu Glu Ser Glu
 50 55 60
 Asp Arg Ala Ala Lys Gly Glu Ala His Val Val Arg Leu Lys Val Glu
 65 70 75 80
 Gly Tyr Pro Met Phe Asp Asp Leu Val Tyr Gly Lys Thr Gly Gln Asn
 85 90 95
 Arg Ser Ser Ser Lys Leu Asp Leu Ile Glu Arg Val Tyr Asp Asp Pro
 100 105 110
 Ile Leu Leu Lys Ser Asp Gly His Pro Thr Tyr His Leu Ala Asn Val
 115 120 125
 Val Asp Asp His Cys Met Lys Ile Thr His Val Ile Arg Gly Thr Val
 130 135 140
 Ser Ile Leu Pro Arg Lys Lys Gln Thr Ala Asn Ile Asp Ser Tyr Arg
 145 150 155 160

12440

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Asn Gly Cys Pro Arg His Gln Cys Met Trp Pro Cys Ile Thr Pro Ser
      165                      170                      175
Thr Gly His Leu Arg Ala Ser Val Met Phe Pro Ser Ser
      180                      185

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<210> 31949
 <211> 121
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (24), (57), (85), (101)
 <223> Identity of amino acid sequences at the above locations are unknown.

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<400> 31949
Thr Pro Gly Thr Ile Ala Leu Leu Thr Ala Thr Gln Phe Asn Leu Lys
1          5          10          15
Ile Thr Arg Gly Asn Thr Val Xaa Ala Phe Glu Lys Leu Trp Phe Leu
      20          25          30
Gln Lys Ala His Ala Gln Arg Phe Ala Ala Thr Gly Gly Pro Val Phe
      35          40          45
Asp Glu Met Gly His Gln Val Ser Xaa Ala Gly Glu Glu Thr Tyr Pro
      50          55          60
Ala Asp Gln Leu Tyr Val His Asn Pro Ser Thr Pro Leu Arg Asn Asn
      65          70          75          80
Gln Leu Thr Phe Xaa Gln Trp Asn His Pro Ser Ile Pro Arg Pro Leu
      85          90          95
Asn Gly Leu His Xaa Pro Pro Ser Phe Lys Gly Asp Ala Lys Ile Phe
      100          105          110
Thr Asn Ala Pro Gly Ile Leu Pro Gly
      115          120

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<210> 31950
 <211> 91
 <212> PRT
 <213> A.fumigatus

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<400> 31950
Leu Val Gln Glu Trp Met Pro Ser Thr Pro Met His Val Ala Leu Tyr
1          5          10          15
Asn Ala Phe Asn Trp Thr Pro Pro Arg Phe Gly His Val Pro Leu Leu
      20          25          30
Val Asp Lys Ser Gly Gln Lys Leu Ser Lys Arg Asn Ala Asp Ile Asp
      35          40          45
Leu Ser Phe Phe Lys Asp Lys Gln Gly Val Phe Ala Ala Thr Leu Ile
      50          55          60
Asn Phe Ala Ala Leu Leu Gly Trp Ser His Thr Gln Lys Ser Asp Val
      65          70          75          80
Phe Ser Leu Asp Glu Leu Glu Leu Leu Val Gly
      85          90

```

<210> 31951
 <211> 92
 <212> PRT
 <213> A.fumigatus

<400> 31951

Trp Thr Arg Phe Glu Ala Gln Val Ala Pro Phe His Glu His Pro Arg
 1 5 10 15
 Leu Ile Trp Thr Thr Gly Phe Lys Gln Ile Leu Thr Arg Met Gly Gln
 20 25 30
 Phe Leu Thr Pro Ser Thr Val Thr Cys Ser Thr Cys Asn Gly Gln Gly
 35 40 45
 Glu Phe Phe Ser Pro Lys Asp Lys Cys Lys Lys Cys Lys Gly Asn Lys
 50 55 60
 Thr Val Glu Glu Lys Lys Met Leu Glu Ile Tyr Ile Pro Arg Gly Ala
 65 70 75 80
 Val Phe Thr Thr Gly Leu Glu Gly Ala Val Gln Arg
 85 90

<210> 31952

<211> 162

<212> PRT

<213> A.fumigatus

<400> 31952

Gln Ala Ala Leu Ala Ser His Pro Asp Lys Val Pro Glu Ala Glu Arg
 1 5 10 15
 Glu Ala Ala Glu Val Arg Phe Lys Ala Val Gln Glu Ala Tyr Asp Ile
 20 25 30
 Leu Tyr Asp Glu Asp Lys Arg His Leu Tyr Asp Thr His Gly Met Ser
 35 40 45
 Ala Phe Asn Gly Ser Gly Glu Pro Gly Met Ala Gly Gly Pro Asp Leu
 50 55 60
 Asp Asp Ile Leu Ala Gln Met Phe Gly Met Gly Gly Met Pro Gly
 65 70 75 80
 Met Gly Gly Met Pro Gly Gly Arg Pro Pro Lys Pro Arg Arg Ser Pro
 85 90 95
 Asp Glu Asn Thr Lys Tyr Glu Val Arg Leu Glu Asp Leu Tyr Lys Gly
 100 105 110
 Lys Thr Val Lys Phe Ala Ser Thr Lys Asn Val Ile Cys Ser Leu Cys
 115 120 125
 Gln Gly Lys Gly Gly Lys Glu Arg Ala Thr Ala Lys Lys Cys Ser Thr
 130 135 140
 Cys Asp Gly Gln Gly Leu Arg His Lys Trp Leu Leu Phe Met Asn Thr
 145 150 155 160
 Leu Asp

<210> 31953

<211> 101

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (19), (20), (28)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31953

Glu Glu His Gln Leu Cys Thr Leu Glu Arg Leu Thr Asp Val Ile Arg

12442

1		5		10		15
Phe	Ala	Xaa	Xaa	Ile	Pro	Ala
		20		25		30
Ser	Asn	Cys	Glu	Leu	Gly	Leu
		35		40		45
Leu	Gln	Ile	Pro	Ile	Thr	Ile
		50		55		60
Ser	Trp	Tyr	Lys	Phe	Lys	Asp
65				70		75
Glu	Ile	Tyr	Leu	Tyr	Asp	Val
				85		90
Ile	Arg	Ser	Cys	Lys		
			100			

<210> 31954

<211> 271

<212> PRT

<213> A.fumigatus

<400> 31954

Asn	Arg	Gly	Ala	Asn	Asn	Arg	Ser	Gln	Asp	Tyr	Ser	Leu	Arg	Ala	Lys
1				5				10						15	
Asp	Tyr	Asn	Ala	Lys	Lys	Ala	Lys	Leu	Lys	Arg	Leu	Gln	Glu	Leu	Ala
			20					25					30		
Ala	Asn	Arg	Asn	Pro	Asp	Glu	Phe	Ala	Phe	Gly	Met	Met	Ser	Ala	His
			35				40						45		
Ser	Gln	Lys	Lys	Gly	Lys	His	Gly	Ser	Ala	Ala	Arg	Asp	Ser	Ala	Ala
			50			55					60				
Lys	Arg	Gly	Leu	Ser	His	Glu	Ala	Ile	Lys	Leu	Leu	Lys	Thr	Gln	Asp
65					70					75				80	
Ala	Ala	Tyr	Leu	Arg	Thr	Thr	Gly	Glu	Arg	Leu	Arg	Arg	Glu	Ile	Glu
				85				90						95	
Lys	Val	Glu	Gln	Glu	Val	Arg	Leu	Gln	Glu	Gly	Ile	Gln	Glu	Ala	Leu
			100					105						110	
Gly	Glu	Lys	Lys	Lys	Asp	Glu	Ser	Glu	Ser	Asp	Ile	Glu	Glu	Asp	Asp
			115				120					125			
Asp	Asp	Phe	Asp	Phe	Asp	Phe	Gly	Pro	Lys	Glu	Lys	Arg	Gly	Gln	Lys
			130			135					140				
Lys	Ala	Arg	Lys	Leu	Ile	Phe	Ala	Asp	Asp	Arg	Arg	Glu	Gln	Arg	Ala
145					150					155				160	
Leu	Lys	Lys	Arg	Lys	Leu	His	Glu	Asp	Gln	Asp	Glu	Glu	Glu	Asp	Glu
				165				170						175	
Asp	Glu	Glu	Gln	Ser	Phe	Gly	Glu	Leu	Gln	Lys	Lys	Gln	Leu	Gln	Lys
			180					185					190		
Lys	Ser	Gln	Lys	Gln	Leu	Glu	Ala	Glu	Arg	Leu	Ala	Leu	Val	Glu	Ala
			195				200					205			
Arg	Arg	Val	Arg	Lys	Met	Lys	Lys	Arg	Ala	Ala	Glu	Ala	Arg	Glu	Asn
			210			215					220				
Lys	Leu	Lys	Ala	Leu	Arg	Lys	Gln	Tyr	Ala	Asp	Ile	Thr	Ala	Ala	Glu
225					230					235					240
Arg	Glu	Leu	Asp	Trp	Gln	Arg	Gly	Arg	Met	Asp	Asn	Ser	Val	Gly	Gly
				245					250					255	
Thr	Asn	Lys	Asp	Gly	Ile	Lys	Trp	Lys	Ile	Arg	Glu	Arg	Lys	Lys	
			260					265						270	

<210> 31955

<211> 193
 <212> PRT
 <213> A.fumigatus

<400> 31955

Arg Ser Ser Asp Asn Val His Pro Gly Gln Gly Pro Gly Leu Gly Ile
 1 5 10 15
 Asp Leu Val Leu Asp Gly Leu Gln Leu Ala Leu Val Gln Val Asp Gly
 20 25 30
 Asp Gln Asp His Leu Arg Val Asn Ala Val Leu Ser Leu Ala Gln Gln
 35 40 45
 Ile Arg Ser His Glu Gly Arg Val Gly Val Leu Val Gly Asp Asp Gln
 50 55 60
 His Leu Thr Arg Ser Gly Gly His Ile Asp Ala Asp Thr Gly Arg Gly
 65 70 75 80
 Val Val Gly Asn Gln His Leu Gly Cys Arg His Glu Leu Val Thr Gly
 85 90 95
 Ala Gln Asp Leu Val His Leu Ala Asp Thr Leu Arg Ser Val Ser His
 100 105 110
 Gly Gly His Gly Leu Arg Thr Thr Gly Glu Asp Asn Ala Leu Gly Ser
 115 120 125
 His Phe Val Gly Asp Val Asp Asn Leu Gly Gly Asp Ala Ala Ile Gly
 130 135 140
 Pro Arg Arg Arg Ser Gln Asp Asn Leu Leu Ala Ala Gly Asn His Gly
 145 150 155 160
 Gly Asp Thr Glu His His Gly Gly Gly Arg Gln His Gly Cys Ala Thr
 165 170 175
 Gly Asp Val Gln Thr Asn Thr Leu Asn Arg Ala Arg Lys Ala Arg Ala
 180 185 190
 Asn

<210> 31956
 <211> 138
 <212> PRT
 <213> A.fumigatus

<400> 31956

Arg Ile Arg Cys Ser Gly Ala Tyr Ser Leu Leu Ser Ala Ile Ala Ser
 1 5 10 15
 Ser Met Ser Arg Thr Thr Lys Val Thr Glu Cys Ala Arg Asp Pro Arg
 20 25 30
 Thr Met Ser Ile Arg Gly Arg Ala Arg Ala Trp Ala Ser Thr Ser Ser
 35 40 45
 Ser Met Ala Cys Ser Trp Leu Ser Phe Lys Ser Met Ala Ile Arg Ile
 50 55 60
 Thr Cys Glu Ser Thr Pro Cys Ser Ala Trp Leu Ser Arg Ser Glu Ala
 65 70 75 80
 Thr Lys Ala Gly Leu Ala Ser Leu Ser Ala Met Thr Asn Thr Ser Leu
 85 90 95
 Gly Pro Ala Gly Ile Ser Met Leu Thr Pro Ala Glu Val Ser Leu Glu
 100 105 110
 Thr Ser Ile Leu Ala Ala Val Thr Asn Trp Leu Pro Gly Pro Lys Ile
 115 120 125
 Leu Ser Thr Leu Leu Ile Leu Ser Val Pro
 130 135

<210> 31957
 <211> 112
 <212> PRT
 <213> A.fumigatus

<400> 31957
 Trp Arg Arg Ser Ser Thr Pro Ala Ala Ser Ser Ser Asp Ser Gly Pro
 1 5 10 15
 Leu Arg Val Leu Val Ile Thr Leu Arg Val Ser Thr Thr Leu Cys Val
 20 25 30
 Ser Phe Arg Leu Ser Arg Ala Gly Ile Lys Leu Thr Thr Ala Thr
 35 40 45
 Tyr Gly Tyr Ala Lys Gln Tyr Ser Gly Val Asn Leu Gly Ser Phe Leu
 50 55 60
 Lys His Ile Thr Ser Ser Asn Leu Thr Ala Glu Gly Leu Leu Gly Leu
 65 70 75 80
 Ser Arg Thr Val Glu Gln Leu Ala Ala Val Glu Gly Leu Asp Ala His
 85 90 95
 Lys Arg Ala Val Ser Ile Arg Val Ala Ala Met Lys Lys Asn Gln Ala
 100 105 110

<210> 31958
 <211> 149
 <212> PRT
 <213> A.fumigatus

<400> 31958
 Ala Cys Ser Pro Gly Pro Gln Gln Leu Ser Ser Ser Ser Cys Gly Leu
 1 5 10 15
 Asp Glu Pro Arg Arg Glu Pro Ala Ser Pro Pro Gln Val Ala Ser Ala
 20 25 30
 Thr Phe Ser Val Ala Ala Ser Ser Ala Ile His Gln Thr Thr Val Leu
 35 40 45
 Arg Pro Arg Pro Pro Pro His Leu Asp Leu Arg Glu Val Ser Val Ser
 50 55 60
 Ser Thr Arg Ala Ala Pro Ala Asp His Pro Gln Arg Ser Thr Ser Ser
 65 70 75 80
 Pro Ser Ser Ala Arg Ala Ser Pro Leu Ala Arg Asn Arg Asn Gln Ser
 85 90 95
 Arg His His Pro Pro Leu Cys Arg Ile Arg Ser His Pro Ser Ser Ser
 100 105 110
 Pro Gln Glu Pro Pro Glu Ser Pro Pro Val Thr Ser Pro Pro Ala Pro
 115 120 125
 Pro Ser Arg Ser Pro Ala Val Ala Ala Pro Pro Ser Ser Ala Gly Thr
 130 135 140
 Pro His Pro Ala Ser
 145

<210> 31959
 <211> 320
 <212> PRT
 <213> A.fumigatus

<400> 31959
 Val Cys Ser Arg Phe Ser Arg Pro Ile Glu Arg Val Gly Leu Tyr Val

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1           5           10           15
Pro Gly Gly Thr Ala Val Leu Pro Ser Thr Ala Met Met Leu Gly Val
20           25           30
Pro Ala Met Val Ala Gly Cys Gln Lys Ile Val Leu Ala Ser Pro Pro
35           40           45
Arg Ala Asp Gly Ser Ile Ser Pro Glu Ile Val Tyr Val Ala His Lys
50           55           60
Val Gly Ala Glu Ser Ile Val Leu Ala Gly Gly Ala Gln Ala Val Ala
65           70           75           80
Ala Met Ala Tyr Gly Thr Glu Ser Ile Ser Lys Val Asp Lys Ile Leu
85           90           95
Gly Pro Gly Asn Gln Phe Val Thr Ala Ala Lys Met Leu Val Ser Asn
100          105          110
Asp Thr Ser Ala Gly Val Ser Ile Asp Met Pro Ala Gly Pro Ser Glu
115          120          125
Val Leu Val Ile Ala Asp Lys Asp Ala Asn Pro Ala Phe Val Ala Ser
130          135          140
Asp Leu Leu Ser Gln Ala Glu His Gly Val Asp Ser Gln Val Ile Leu
145          150          155          160
Ile Ala Ile Asp Leu Asn Glu Ser Gln Leu Gln Ala Ile Glu Asp Glu
165          170          175
Val Asp Ala Gln Ala Arg Ala Leu Pro Arg Met Asp Ile Val Arg Gly
180          185          190
Ser Leu Ala His Ser Val Thr Phe Val Val Arg Asp Ile Asp Glu Ala
195          200          205
Met Ala Leu Ser Asn Glu Tyr Ala Pro Glu His Leu Ile Leu Gln Val
210          215          220
Lys Asn Ala Glu Ser Val Val Glu Lys Val Val Asn Ala Gly Ser Val
225          230          235          240
Phe Ile Gly Gln Trp Thr Pro Glu Ser Val Gly Asp Tyr Ser Ala Gly
245          250          255
Val Asn His Ser Leu Arg Lys Phe Ser Ser Phe Pro Cys Arg Asn Gln
260          265          270
Ala Asn Asn Asn Ser Asn Leu Arg Leu Arg Gln Ala Val Leu Trp Ser
275          280          285
Gln Pro Gly Leu Val Pro Gln Ala His His Gln Leu Glu Leu Asp Gly
290          295          300
Arg Gly Ile Ala Gly Ile Val Ser His Gly Gly Ala Val Gly Cys Arg
305          310          315          320

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<210> 31960

<211> 314

<212> PRT

<213> A.fumigatus

<400> 31960

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Gln Ala Ile His Gln Tyr Gly Leu Ile Cys Val Arg Leu Pro Ser Ser
1           5           10           15
Tyr Gln Val Trp Arg Leu Leu Thr Thr Asn Arg Ser Asn Thr Phe Ser
20           25           30
His Gln Leu Tyr Ala Ala Phe Arg Pro Thr Tyr Ser Lys Gln Leu Tyr
35           40           45
Ser Ala Val Leu Ala Tyr His Gln Gly Pro Ser Trp Thr Ala Leu Asp
50           55           60
Leu Gly Thr Gly His Gly Leu Val Ala Arg Glu Leu Ser Pro His Phe
65           70           75           80

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Gln Arg Val Leu Ala Ser Asp Pro Ser Ala Gly Met Ile His Glu Ala
 85 90 95
 Arg Gln Leu Ser Thr Gly Phe Pro Asn Met Thr Phe Tyr Gln Ala Arg
 100 105 110
 Ala Glu Glu Cys Pro Phe Ala Ala Asp Ala Gln Val Asp Leu Val Thr
 115 120 125
 Ala Ala Gln Ser Ala His Trp Phe Asp Tyr Ala Lys Leu Trp Pro Glu
 130 135 140
 Met Arg Arg Ile Val Arg Ser Gly Gly Thr Leu Ala Phe Trp Gly Tyr
 145 150 155 160
 Lys Asp His Val Leu Val Ser Tyr Pro Arg Ala Thr Ser Ile Ile Asn
 165 170 175
 Glu Tyr Ala Tyr Gly Gln Asp Pro Trp Leu Leu Gly Ser Tyr Trp Gln
 180 185 190
 Gln Pro Gly Arg Ser Ile Val Gln Gln Lys Leu Arg Ala Val Gln Pro
 195 200 205
 Pro Val Glu Asp Trp Glu Asp Val Ser Arg Asp Glu Tyr Glu Pro Gly
 210 215 220
 Val Glu Gly Gly Thr Arg Phe Met His Ala Arg Met Thr Leu Gly Ser
 225 230 235 240
 Met Glu Glu Tyr Val Arg Thr Trp Ser Ser Phe His Ala Trp Gln Arg
 245 250 255
 Lys Trp Pro Asp Arg Ile Arg Arg Ala Pro Gly Asn Thr Asp Gln Arg
 260 265 270
 Gly Asp Val Ile Asp Glu Met Met Asp Lys Ile Arg Glu Thr Glu Pro
 275 280 285
 Ser Phe Gln Arg Asp Asp Trp Lys Asp Val Glu Val Asp Val Glu Trp
 290 295 300
 Gly Ser Ala Leu Ile Leu Ala Arg Arg Arg
 305 310

<210> 31961

<211> 111

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (101)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31961

Ala Leu His Lys Leu Leu Ser Val Ile Phe Gln Met Thr Arg Thr Ala
 1 5 10 15
 Ser Val Pro Ile Asn His Ile Thr Ile Arg Thr His Gln Pro Ala Asp
 20 25 30
 Ile Glu Trp Ile Ile Ser Arg His Gly Thr Leu Tyr Ala Glu Glu Tyr
 35 40 45
 Asn Phe Asn Asp Lys Phe Val Ala Leu Val Ser Lys Ile Ala Ser Asp
 50 55 60
 Phe Gln Gln Asn His Asp Pro Thr Ser Glu Arg Cys Trp Ile Ala Glu
 65 70 75 80
 Arg Thr Gly Lys Thr Thr Asn Glu Pro Val Val Cys Ile Met Arg Leu
 85 90 95
 Lys Asp Val Asp Xaa Ile Ala Thr Ala Ser Arg Phe Ser Cys Val
 100 105 110

<210> 31962
 <211> 60
 <212> PRT
 <213> A.fumigatus

<400> 31962
 Glu Asp Asn Lys Gly Trp Asn Lys Val Ala Ile Tyr Thr Asn Tyr Phe
 1 5 10 15
 His Asn Ser Tyr Ile Phe Leu Ile Ser Ile Thr Arg Arg Glu Arg Arg
 20 25 30
 Leu Leu Lys Leu Ser Ser Asn Tyr Leu Leu Ile Phe Thr Asn Ser Asn
 35 40 45
 Leu Glu Ala Cys Leu Ile Lys Val Val Glu Val Leu
 50 55 60

<210> 31963
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 31963
 Arg Lys Ala Met Asn Thr Glu Leu Leu Arg Thr Leu Pro Leu Leu Lys
 1 5 10 15
 Tyr Leu Thr Phe Pro Leu Lys Ala Leu Asp Thr Ser Ile Pro Phe Ser
 20 25 30
 Val Pro Ser Glu Ala Gln Arg Arg Thr Phe Ile Leu Ser Ala Leu Ala
 35 40 45
 Thr Thr Tyr Ser Gln Leu Lys Tyr Gly Thr Leu Pro Trp Pro Thr Ser
 50 55 60
 Ser Ile Pro Ser Asp Tyr Leu Tyr Leu Ala Ala Leu Lys
 65 70 75

<210> 31964
 <211> 74
 <212> PRT
 <213> A.fumigatus

<400> 31964
 Tyr Asn Arg Ala Leu Ile Asn Thr Lys Leu Ser Thr Glu Gln Glu Ala
 1 5 10 15
 Ala Leu Ile Lys Tyr Ile Asn Ile Leu Ile Lys Leu Asp Ile Pro Leu
 20 25 30
 Trp Pro Lys Val Ile Ser Asn Val Val Asn Leu Ile Phe Phe Tyr Arg
 35 40 45
 Tyr Thr Asn Leu Ile Thr Pro Pro Pro Leu Ile Ser Val Tyr Trp Met
 50 55 60
 Lys Tyr Phe Leu Lys Tyr Tyr Leu Glu Tyr
 65 70

<210> 31965
 <211> 312
 <212> PRT
 <213> A.fumigatus

<400> 31965

Leu Ala Asp Met Leu Gly Arg His Glu Cys Thr Ile Ser Glu Ser Val
 1 5 10 15
 Ser Ala Leu Asp Pro Thr Ala Gln Glu Pro Glu Tyr Thr Leu Val Pro
 20 25 30
 Ser Thr Ser Arg Asp Leu Val Arg Asp Met Thr Leu Asn Met Glu Asp
 35 40 45
 Ala Gln Ala His Leu Lys Glu His Gly Trp Val Lys Ile Pro Ala Val
 50 55 60
 Leu Ser Lys Ala Glu Ala Glu Asp Ala Leu Ser Arg Leu Trp Glu Ala
 65 70 75 80
 Lys Ala Ala Ser Glu Ala Arg Gly Glu Cys Thr Phe Gln Pro Ile Leu
 85 90 95
 Asp Pro Asn Pro Ala Asn Val Arg Val Phe Tyr Leu Pro Glu Leu Asp
 100 105 110
 Ala Tyr Trp Arg Asp Met Leu Val Asn Pro Thr Ala Leu Asp Leu Ala
 115 120 125
 Lys Ser Leu Leu Gly Asp Gln Leu Leu Val Ser Asn Phe Ser Ala Asn
 130 135 140
 Ile Ala Arg Pro Gly Ala Glu Ser Met Ala Leu His Ser Asp Gln Ser
 145 150 155 160
 Ile Val Leu Pro Ala Pro Trp Leu Asp Val Trp Ala Val Asn Val Ile
 165 170 175
 Trp Cys Leu Thr Arg Met Thr Lys Glu Asn Gly Ala Thr Leu Tyr Ile
 180 185 190
 Pro Gly Ser Asn Lys Trp Thr Thr Trp Glu Asp Val Pro Asp Asn Ala
 195 200 205
 Pro Asp Leu Leu Val Pro Phe Glu Ala Asp Ala Gly Asp Ile Val Val
 210 215 220
 Ile Asp Gly Arg Leu Trp His Thr Ser Gly Ser Asn Val Thr Glu Asp
 225 230 235 240
 Glu Asp Arg Ala Ile Leu Phe Ala Tyr Tyr Ser Ala Pro His Met Arg
 245 250 255
 Pro Leu Thr Asn Trp Ser Ala Lys Leu Pro Lys Glu Leu Gln Glu Thr
 260 265 270
 Leu Ser Pro Gln Leu Lys Glu Leu Leu Ala Leu Ser His Ile Gly Tyr
 275 280 285
 Val Val Lys Gly Asp Leu Thr Tyr Met Ala Gln Lys Tyr Pro Ser Glu
 290 295 300
 Lys Gly Thr Thr Ala Val Ser Ala
 305 310

<210> 31966

<211> 135

<212> PRT

<213> A.fumigatus

<400> 31966

Gly Cys Thr Gln Pro Ser Leu Gly Gly Glu Ser Cys Leu Gly Gly Ser
 1 5 10 15
 Trp Arg Val His Phe Pro Ala Asp Leu Gly Ser Gln Pro Gly Glu Arg
 20 25 30
 Ala Arg Leu Leu Ser Pro Arg Val Gly Arg Ile Leu Ala Arg His Ala
 35 40 45
 Gly Gln Pro Asp Arg Thr Arg Pro Gly Gln Val Pro Pro Gly Arg Pro
 50 55 60
 Ala Ala Gly Gln Gln Leu Leu Gly Gln His Cys Ser Ser Trp Arg Gly

12449

65		70		75		80									
Glu	His	Gly	Pro	Ala	Leu	Gly	Pro	Glu	His	Arg	Ser	Ser	Ser	Ala	Val
				85					90					95	
Val	Gly	Cys	Leu	Gly	Ser	Gln	Arg	Asp	Leu	Val	Pro	Asp	Glu	Asp	Asp
			100					105					110		
Gln	Gly	Glu	Arg	Cys	Asp	Leu	Val	Tyr	Pro	Arg	Phe	Glu	Gln	Val	Asp
		115					120					125			
His	Leu	Gly	Gly	Arg	Ala	Arg									
	130					135									

<210> 31967
 <211> 61
 <212> PRT
 <213> A.fumigatus

<400> 31967
Phe Gly Gly Leu Gly Asp Leu Gln Thr Ser Thr Cys Ile Thr Thr Val
1 5 10 15
Arg Pro Glu Ala Lys Asp Arg Phe Tyr Asn Asn Thr Leu Glu Lys Ser
20 25 30
Pro Gln Ala Ala Pro Thr Asp Ile Ser Met Gly Glu Pro Ile Leu Thr
35 40 45
Ile Pro Asp Pro Asn Ser Asp Tyr Tyr Phe Asn Leu Pro
50 55 60

<210> 31968
 <211> 327
 <212> PRT
 <213> A.fumigatus

<400> 31968
Ser Glu Ala Val Gln Glu Ser Phe His Leu Ala Phe Ile Tyr Asn Thr
1 5 10 15
Met Ala Pro Val Ala Met Ser Ser Glu Pro Ala Val Phe Asn Thr Lys
20 25 30
Arg Asp Gly His Ala Leu Glu Asp Leu Ser Asp Ala Ile Asp Thr Val
35 40 45
Asn Leu Leu Lys Asn Glu Met Lys Lys Glu Arg Gly Leu Tyr Asp Glu
50 55 60
Ser Glu Phe Asp Lys Asn Lys Asp Lys Thr Gln Phe Arg Gln Tyr Glu
65 70 75 80
Asp Ala Cys Asp Arg Val Lys Asn Phe Tyr Arg Glu Gln His Thr Lys
85 90 95
Gln Thr Val Ala Tyr Asn Leu Lys Ala Arg Asn Asp Phe His Ser Lys
100 105 110
Thr Arg Ala Glu Met Ser Ile Trp Glu Ala Met Glu Lys Leu Asn Thr
115 120 125
Leu Ile Asp Glu Ser Asp Pro Asp Thr Ser Leu Ser Gln Ile Glu His
130 135 140
Leu Leu Gln Ser Ala Glu Ala Ile Arg Arg Asp Gly Lys Pro Arg Trp
145 150 155 160
Met Gln Leu Thr Gly Leu Ile His Asp Leu Gly Lys Leu Leu Tyr Phe
165 170 175
Phe Asp Ala Gln Gly Gln Trp Asp Val Val Gly Asp Thr Phe Pro Val
180 185 190
Gly Cys Ala Phe Asp Asp Arg Ile Ile Tyr Gly Lys Glu Ser Phe Lys

12450

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      195              200              205
Glu Asn Pro Asp Tyr Glu His Glu Ile Tyr Gly Thr Lys Tyr Gly Ile
      210              215              220
Tyr Thr Pro Gly Cys Gly Leu Asp Asn Met Met Leu Ser Trp Gly His
225              230              235              240
Asp Glu Tyr Leu Tyr His Val Val Lys Asp Gln Ser Thr Leu Pro Asp
      245              250              255
Glu Ala Leu Ala Met Ile Arg Tyr His Ser Phe Tyr Pro Trp His Gln
      260              265              270
Ala Gly Ala Tyr His Glu Phe Met Asn Glu Lys Asp Gln Lys Met Leu
      275              280              285
Gln Ala Val Lys Ala Phe Asn Pro Tyr Asp Leu Tyr Ser Lys Ser Asp
      290              295              300
Asp Val Pro Ser Val Glu Leu Lys Val Ser Phe Pro Ser Ser His
305              310              315              320
Ser Thr Arg Arg Val Ile Ser
      325

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<210> 31969

<211> 107

<212> PRT

<213> A.fumigatus

<400> 31969

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Pro Phe Asn His Pro Asp Pro Ser Glu Ile Ala Phe Gly Tyr Ala Arg
1              5              10              15
Arg Ser Cys Ala Ala Arg Tyr Phe Ala Asp Ala Ser Val Tyr Ile Thr
      20              25              30
Val Val Gln Leu Leu Ala Val Phe Asn Val Arg Lys Ala Arg Asp Asp
      35              40              45
Gln Gly Asn Glu Ile Pro Val Thr Leu Gln Ala Ile Pro Gly Met Val
      50              55              60
Asn Arg Pro Ala Pro Phe Gln Phe Lys Val Glu Pro Arg Ser Gln His
65              70              75              80
His Ile Asp Leu Leu Arg Arg Ile Glu Ser Glu Gln Ile Pro Glu Val
      85              90              95
Ser His Ala Ser Leu Leu Lys Pro Ser Thr Val
      100              105

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<210> 31970

<211> 531

<212> PRT

<213> A.fumigatus

<400> 31970

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Val Gln Ser Gly Gln Val Phe Ala Cys Val Phe His Leu Ala Ile His
1              5              10              15
Pro Val Val Asp Ala Ile Leu Gly Met Asp His Pro Tyr Leu Gln Asp
      20              25              30
Glu Val Leu Arg Gln Ser Leu Gln Asn Pro Asp Glu Phe Trp Ser Arg
      35              40              45
Gln Ala Glu Arg Leu His Trp His Arg Lys Pro Asp Thr Ala Leu Arg
      50              55              60
Thr Thr Gln Lys Ser Leu Pro Asp Gly Thr Ala His Pro Met Trp Glu
65              70              75              80
Trp Phe Pro Gly Gly Glu Ile Ser Thr Cys Tyr Asn Cys Val Asp Arg

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12451

	85	90	95
His Val Ala Ala Gly Asn Gly His Glu Ser Ala Ile Tyr Tyr Asn Ser			
	100	105	110
Pro Val Thr Asn Thr Lys Glu Thr Ile Thr Tyr His Thr Leu Leu Arg			
	115	120	125
Glu Val Glu Thr Leu Ala Gly Val Leu Arg Glu Ala Gly Val Lys Lys			
	130	135	140
Gly Asp Val Val Met Leu Tyr Met Pro Met Ile Pro Ala Ala Leu Ile			
145	150	155	160
Gly Met Leu Ala Val Asn Arg Leu Gly Ala Val His Ser Val Val Phe			
	165	170	175
Gly Gly Phe Ala Pro Asn Ala Leu Ala Gln Arg Val Glu Ala Cys Lys			
	180	185	190
Pro Asp Val Leu Leu Thr Ala Ser Cys Gly Ile Val Gly Asn Arg Pro			
	195	200	205
Pro Ile Ala Tyr Gln Ala Leu Val Glu Glu Ala Ile Lys Leu Ser Tyr			
	210	215	220
His Lys Pro Ala His Thr Ile Val Trp Gln Arg Asp Gln Leu Gln Trp			
225	230	235	240
Asp Phe Gln Glu Ser Ala Pro Thr Trp Trp Arg Thr Val Trp Gln Trp			
	245	250	255
Ile Gln Arg Val Leu Phe Arg Arg Arg Ile Arg Thr Ala Lys Gln Ser			
	260	265	270
Ser Trp Gln Gln Leu Val Ala Ser Ala Arg Ala Arg Gly Leu Lys Ala			
	275	280	285
Asp Cys Val Pro Val Pro Ser Asp Gln Pro Ile Tyr Ile Met His Thr			
	290	295	300
Ser Gly Thr Thr Gly Ala Pro Lys Gly Val Leu Arg Ser Ser Gly Gly			
305	310	315	320
His Ala Val Gly Leu Gln Phe Thr Ile Gln Tyr Ile Phe Asn Ile His			
	325	330	335
Gly Pro Arg Asp Val Met Phe Ala Ala Ser Asp Ile Gly Trp Val Val			
	340	345	350
Gly His Ser Tyr Ile Leu Tyr Ala Pro Leu Leu Ala Gly Ala Ala Thr			
	355	360	365
Val Leu Tyr Glu Gly Lys Pro Val Gly Thr Pro Asp Ala Ser Ala Phe			
	370	375	380
Trp Lys Val Val Glu Glu Tyr Gln Val Asn Thr Met Phe Ala Thr Pro			
385	390	395	400
Thr Ala Leu Arg Ala Ile Lys Gln Glu Asp Pro Ser Asn Thr Lys Leu			
	405	410	415
Ala Glu Ile Gly Ala Arg Gly Gly Leu Arg Ser Leu Gln Ala Leu Phe			
	420	425	430
Leu Ala Gly Glu Arg Ser Glu Pro Thr Leu Val Ser Met Tyr Gln Glu			
	435	440	445
Leu Leu Asp Gln His Gly Gly Arg Asn Ala Gln Val Ile Asp Asn Trp			
	450	455	460
Trp Ser Thr Glu Ala Gly Ser Pro Ile Thr Gly Arg Ala Met Ala Pro			
465	470	475	480
His Phe Gly Leu Thr Glu Leu Ser Arg Ser Phe Asp Ile Pro Ile			
	485	490	495
Pro Pro Ile Lys Pro Gly Ser Ala Gly Lys Pro Met Pro Gly Phe Asp			
	500	505	510
Val Arg Val Val Asp Glu His Gly Glu Glu Ser Ser Pro Arg Gly Gly			
	515	520	525
Asp Gln Arg			

530

<210> 31971
 <211> 190
 <212> PRT
 <213> A.fumigatus

<400> 31971
 Leu Val Ala Leu Pro Asp Tyr Cys Val Cys Arg Leu Val Ile Gly Lys
 1 5 10 15
 Leu Asp Cys Phe Phe Asp Lys Cys Leu Val Arg Asn Arg Gly Pro Ile
 20 25 30
 Pro His Asp Pro Ala Arg Cys Ser Glu Gln His Ile Arg Phe Ala Arg
 35 40 45
 Leu Asp Ser Leu Gly Glu Ser Val Gly Arg Lys Ala Ala Glu His Asp
 50 55 60
 Arg Val Asn Ser Ser Gln Thr Ile Asp Gly Lys His Ala Asn Gln Arg
 65 70 75 80
 Ser Arg Asp His Gly His Val Gln His Asp His Ile Thr Leu Leu Asp
 85 90 95
 Pro Cys Leu Ser Gln Asp Pro Gly Gln Arg Leu Asp Leu Pro Glu Glu
 100 105 110
 Gly Val Ile Arg Asp Gly Leu Leu Cys Ile Arg Asp Arg Ala Val Val
 115 120 125
 Val Asp Gly Arg Phe Met Ser Val Ser Cys Arg Asp Val Pro Val Tyr
 130 135 140
 Ala Ile Val Ala Arg Arg Asp Phe Ser Ala Gly Glu Pro Phe Pro His
 145 150 155 160
 Arg Val Arg Gly Ala Ile Trp Gln Thr Leu Leu Gly Cys Pro Glu Cys
 165 170 175
 Arg Val Arg Phe Ser Met Pro Val Lys Ala Leu Gly Leu Ala
 180 185 190

<210> 31972
 <211> 92
 <212> PRT
 <213> A.fumigatus

<400> 31972
 Ser Ser Ser Ser Trp Tyr Met Glu Thr Lys Val Gly Ser Asp Arg Ser
 1 5 10 15
 Pro Ala Arg Asn Ser Ala Cys Arg Asp Arg Lys Pro Pro Arg Ala Pro
 20 25 30
 Ile Ser Ala Ser Leu Val Leu Leu Gly Ser Ser Cys Leu Ile Ala Leu
 35 40 45
 Ser Ala Val Gly Val Ala Asn Met Val Phe Thr Trp Tyr Ser Ser Thr
 50 55 60
 Thr Phe Gln Asn Ala Asp Ala Ser Gly Val Pro Thr Gly Leu Pro Ser
 65 70 75 80
 Tyr Lys Thr Val Ala Ala Pro Ala Ser Asn Gly Ala
 85 90

<210> 31973
 <211> 610
 <212> PRT
 <213> A.fumigatus

<400> 31973

Asn Arg Arg Gln Ala Lys Arg Leu Glu His Gln Met Arg Asn Gly Ala
 1 5 10 15
 Asn Ile Gln Asp Ala Ser Glu Asn Ile Glu Gln Ala Arg Pro Asp Lys
 20 25 30
 Pro Ala Gln Glu Pro Thr Thr Val Val Ser Gln Arg Lys Glu Pro Glu
 35 40 45
 Ala Gln Val Thr Ala Pro Glu Ser Glu Glu Pro Lys Asp Asn Gly Lys
 50 55 60
 Ala Lys Arg Ser Pro Lys Glu Glu Gln Gln Glu Gln Pro Asp Val
 65 70 75 80
 Gln Thr Glu Gln Arg Lys Pro Glu Pro Pro Ala Glu Gly Ser Met Thr
 85 90 95
 Asp Ala Lys Ala Ala Glu Gln Ala Ala Glu Ser Leu Gln Gln Thr Gln
 100 105 110
 Pro Glu Val Ser Ser Lys Glu Ser Glu Ala Ile Gln Val Ala Glu Ala
 115 120 125
 Gly Ile Gly Ser Glu Gly Ser Ala Pro Ser Arg Ala Pro Ser Gln Pro
 130 135 140
 Glu Ala Glu His Pro Val Glu Pro Val Glu Gln Ala Pro Gly Ser Ala
 145 150 155 160
 Glu Ala Val His Gly Gln Asp Ser Lys Glu Leu Pro Asp Ser Val Gly
 165 170 175
 Lys Ala Ala Thr Gln Val Ser Ala Glu Thr Thr Gly Leu Ser Thr Pro
 180 185 190
 Leu Pro Val Glu Glu Met Ile Glu Asp Thr Arg Lys Arg Lys Arg Arg
 195 200 205
 Ser Gln Thr Pro Ile Pro Thr Pro Glu Ala Val Ala Ser Lys Arg Ala
 210 215 220
 Lys Ala Gln Glu Glu Ser Pro Arg Val Leu Leu Pro Glu Asp Arg Asp
 225 230 235 240
 Ile Met Asp Val Glu Gly Ser Pro Gly Lys Lys Ala Val Ala Val Pro
 245 250 255
 Ala Glu Asn Glu Gln Ala Gln Asn Gln Asn Gly Asp Asp Arg Asn Asp
 260 265 270
 Ala Ile Arg Arg Val Ser Ile Ser Asp Asp Val Arg Thr Arg Gly Thr
 275 280 285
 Ala Ser Ile Lys Gln Asp Ala Arg Phe Lys Asp Leu Phe Ala Pro Ala
 290 295 300
 Asp Arg Glu Gln Ile Arg Pro Arg Ser Pro Pro Ala Asp Thr Asn Met
 305 310 315 320
 Glu Asp Ala Glu Val Glu Pro Ala Leu His Val Ala Thr Glu Ala Leu
 325 330 335
 Tyr Ile Asp Gly Leu Met Arg Pro Leu Gln Pro Ala Ala Leu Lys Asn
 340 345 350
 His Leu Val Ser Ile Ala Thr Ala Pro Gly Ala Ser Pro Asp Pro Asp
 355 360 365
 Val Ile Val Asp Phe Tyr Leu Asp Pro Ile Lys Thr His Cys Phe Val
 370 375 380
 Lys Phe Ala Asn Ile Ser Ala Ala Ser Arg Ala Arg Thr Ala Leu His
 385 390 395 400
 Gly Val Val Trp Pro Asn Glu Ser Asn Arg Lys Ala Leu Phe Val Asp
 405 410 415
 Phe Ile Pro Gln Gln Lys Leu Gln Gln Trp Val Ala Arg Glu Glu Glu
 420 425 430

12454

Ser Arg Gly Arg Gly Gly Pro Pro Pro Arg Trp Glu Val Arg Tyr Asp
 435 440 445
 Arg Thr Asp Asp Gly Val Glu Ala Val Leu Gln Glu Val Asp Leu Lys
 450 455 460
 Ser Thr Ala Ser Arg Gln Ala Pro Gly Arg Ala Ser Thr Asp Phe Ser
 465 470 475 480
 Arg Pro Pro Pro Leu Gly Pro Arg Ala Ser Met Gly Val Lys Asp Arg
 485 490 495
 Arg Pro Ser Gly Pro Pro Pro Leu Glu Pro Arg Pro Arg Pro Gly Gln
 500 505 510
 Gly Phe Lys Ala Leu Asp Asp Leu Phe Glu Ser Thr Thr Thr Lys Pro
 515 520 525
 Lys Leu Tyr Tyr Leu Arg Val Pro Arg Glu Val Ala Asp Arg Arg Leu
 530 535 540
 Asp Arg Phe Asp Asp Leu Leu Arg Lys Gly Ser Phe Pro Arg Arg Gly
 545 550 555 560
 Gly Asp Glu Asn Arg Arg Ile Thr Phe Glu Asp Gly Asp Phe Phe Val
 565 570 575
 Asp Asn Gly Pro Glu Tyr Gly Arg Gly His Gly Arg Arg Arg Gly Arg
 580 585 590
 Gly Arg Gly Gly Gly Met Gly Asp Ser Trp Arg Asp Asp Arg Arg Gly
 595 600 605
 Arg Asp
 610

<210> 31974

<211> 94

<212> PRT

<213> A.fumigatus

<400> 31974

Gly Lys Val Gly Leu Ser Pro Gly Leu Ala Arg Val Val Pro Asp Phe
 1 5 10 15
 Leu Lys Leu Gly Phe Ser Asn Leu Pro Glu Lys Lys Pro Glu Gly Glu
 20 25 30
 Ala Leu Asn Asp Glu Gln Thr Leu Lys Asp Leu His Arg Leu Leu Leu
 35 40 45
 Glu Thr His Val Ile Glu Gly Lys Leu Val Cys Gly Asn Cys Gly His
 50 55 60
 Glu Tyr Leu Ile Lys Glu Gly Ile Ala Asn Phe Leu Leu Pro Ser His
 65 70 75 80
 Leu Gly Leu Gly Leu Pro Asp Arg Ile Tyr Ile Val Ala Cys
 85 90

<210> 31975

<211> 100

<212> PRT

<213> A.fumigatus

<400> 31975

Arg Tyr Ala Ile Val Cys Leu Ile Leu Ser His Leu Leu Lys Phe His
 1 5 10 15
 Phe Ser Ile Ile Leu Leu Cys Asp Leu Asp Thr Met Lys Leu Val Thr
 20 25 30
 Ala Asn Phe Leu Thr Cys Ala Val Lys Gly Cys Lys Thr Ser Ser Ala
 35 40 45

12455

Ser Phe Pro Leu His Phe Gln Asp Ala Glu Leu Glu Leu Glu Glu Leu
 50 55 60
 Asp Phe Gln Pro Glu Phe Ile Arg Asn Ile Ile Pro Arg Val Asp Trp
 65 70 75 80
 Asp Gly Leu Arg Val Thr Ala Asn Glu Val Arg Ser Asp Tyr Leu Leu
 85 90 95
 Val Trp His Val
 100

<210> 31976

<211> 167

<212> PRT

<213> A.fumigatus

<400> 31976

Asn Ser Glu Gly Phe Val Phe Ala Leu Asp Lys Glu Cys Asn Val Gln
 1 5 10 15
 Val Asn Cys Glu Val Ser Arg Gly Thr Leu Ile Lys Glu Pro Phe Ala
 20 25 30
 Thr Cys Arg Ala Ala Glu Ala Gly Asn Ser Val Val Thr Val Pro Phe
 35 40 45
 Pro Phe Glu Phe Val Val Val Gly Gln Leu Phe Ile Cys Ile Tyr Val
 50 55 60
 Ser Leu Cys Pro Asp Val Glu Ser Val Gly Leu Ser Val Arg Ile Thr
 65 70 75 80
 Ser Ser Asn Val Pro Glu Ser Ile Tyr Asn Asn Ser Phe Ala Thr Ile
 85 90 95
 Asn Leu Asp Asp Leu Cys Ser Ala Ile Arg Ser Thr Ala Met Val Asp
 100 105 110
 Glu Ala Ser Asp Thr Ser Ser Leu Gly Gly Ile Tyr Asn Ser Val Leu
 115 120 125
 Val Asp Ser Glu Lys Val Ala Ala Thr Tyr Pro Ala Leu Gln Val Leu
 130 135 140
 Pro Leu Pro His Val Cys His Leu Leu Ser His Leu Phe Thr Asn Val
 145 150 155 160
 Leu Tyr Asp His Ile Ile Arg
 165

<210> 31977

<211> 70

<212> PRT

<213> A.fumigatus

<400> 31977

Ile Ser Asn Leu Gly Ser Arg Leu Pro Val Gln Asn Met Ala Lys Glu
 1 5 10 15
 Ala Glu Ile Leu Leu Ile Phe Asp Glu Ile Leu Pro Ala Val Gln Ile
 20 25 30
 Gln Asp Tyr Gly Phe Ile Ile Asn Asn Cys Arg Thr Arg Phe Ile Ile
 35 40 45
 Arg His Pro Pro Phe Asp Leu Arg Asn Arg Val Phe Met Ala Leu Cys
 50 55 60
 Ser Ser Gly Phe Val Arg
 65 70

<210> 31978

<211> 403

<212> PRT

<213> A.fumigatus

<400> 31978

Ile Ala Ser Val Glu Pro Gly Asp Met Phe Tyr Glu Glu Ser Gln His
 1 5 10 15
 Ser Glu Ser Ala Glu Leu Gly Thr Val Lys Pro Glu Asn Leu Val Gly
 20 25 30
 Ile Gly Gly Lys Phe Leu Gly Arg Val Glu Asp Arg Ser Ile Asn Glu
 35 40 45
 Asp Gly Glu Lys Glu Asn Met Glu Arg Leu His Ile Glu Ser Ala Ile
 50 55 60
 Gln Gly Ala Asn Leu Gly Ile Gln Gln Pro Leu Pro Asp Glu Ser Thr
 65 70 75 80
 Thr Thr Lys Ser His Glu Asp Pro Ile Thr Glu Ile Glu Trp Gly Val
 85 90 95
 Ser Asn Asp Glu Pro Arg Pro Thr Val Val Asp Asp Glu Thr Ile Ile
 100 105 110
 Leu Asp Leu Asp Gly Trp Gln Asn Leu Val Lys Asp Glu Glu Asp Leu
 115 120 125
 Cys Phe Leu Arg His Val Leu Asp Gly Gln Ser Arg Ser Lys Val Gly
 130 135 140
 Asn Leu Ser Ala Trp Ala Trp Arg Gln Lys Glu Ile Lys Ala Leu Asn
 145 150 155 160
 Arg Ala Gly Glu Ser Gly Pro Val His Gln Glu Thr Arg Ile Pro Asp
 165 170 175
 Tyr Tyr Val Cys Asn Pro Thr Gly Ala Ala Arg Thr Glu Gly Arg Lys
 180 185 190
 Arg Ile Leu Glu Ser Glu Lys Ser Lys Tyr Leu Pro His Arg Ile Lys
 195 200 205
 Val Gln Lys Ala Arg Glu Glu Arg Glu Ala Asn Ala Lys Ser Asp Pro
 210 215 220
 His Ala Ser Ser Ala Ala Glu Ala Ala Arg Ile Ser Ala Ala Lys Thr
 225 230 235 240
 Ile Ser Lys Ser Thr Ser Arg Ser Thr Arg Val Asn Asn Arg Thr Leu
 245 250 255
 Val Ala Asp Ile Asn Ala Gln Lys Gln Ala Leu Pro Met Gln Gly Gly
 260 265 270
 Gly Gly Asp Val Leu Arg Phe Asn Gln Leu Lys Lys Arg Lys Lys Pro
 275 280 285
 Val Arg Phe Ala Arg Ser Ala Ile His Asn Gly Gly Leu Tyr Ala Glu
 290 295 300
 Glu Asn Ile Ser Ala Asn Asp Met Ile Ile Glu Tyr Val Gly Glu Lys
 305 310 315 320
 Val Arg Gln Gln Val Ala Asp Met Arg Glu Arg Gln Tyr Leu Lys Ser
 325 330 335
 Gly Ile Gly Ser Ser Tyr Leu Phe Arg Ile Asp Glu Asn Thr Val Ile
 340 345 350
 Asp Ala Thr Lys Arg Gly Gly Ile Ala Arg Phe Ile Asn His Ser Cys
 355 360 365
 Thr Pro Asn Cys Thr Ala Lys Ile Ile Lys Val Asp Gly Ser Lys Arg
 370 375 380
 Ile Val Ile Tyr Ala Leu Arg Asp Ile Gly Arg Gly Asn Ser Asp Arg
 385 390 395 400
 Gln Ala Asn

<210> 31979
 <211> 83
 <212> PRT
 <213> A.fumigatus

<400> 31979

```

Asn Leu Ser Lys Cys Asp Lys Ile Arg His Thr Ile Ala Tyr Leu His
1           5           10           15
Thr Leu Arg Lys Trp Val Thr Asn Phe Ile Ser Ala Phe Leu Ser Phe
          20           25           30
Ile Pro Phe Lys Val Leu Phe Leu Met Tyr Ile Tyr Ile Leu Ser Leu
          35           40           45
Phe Arg Val Asn Tyr Lys Ile Gln Asp Gly Lys Arg Leu Leu Ala Glu
          50           55           60
Phe Ser Pro Thr Val Tyr Thr Phe Trp Asn Ile Gln Glu Ile Ala Ser
          65           70           75           80
Ser Asn Thr
  
```

<210> 31980
 <211> 134
 <212> PRT
 <213> A.fumigatus

<400> 31980

```

Thr His Ser Arg Ile Leu Pro Cys Leu Cys Val Lys Ser His Pro Gln
1           5           10           15
Ala Arg Thr Ala Ile Cys Ser Ala Asp Asn Ile Lys Ser Ser Phe Ser
          20           25           30
Ala Thr Arg Leu Ile Pro Leu Asn Leu Asp Gln Met Leu Ser Gln Leu
          35           40           45
Asn Ile Gln Leu Arg Thr Pro Thr Pro Pro Gly Ser Arg Ser Thr Asn
          50           55           60
Ser Val Pro Lys Thr Pro Tyr Asn Leu Lys Gln Leu Lys Lys Gln Glu
          65           70           75           80
Thr Thr Leu Lys Lys Leu Leu Arg Glu His Thr Tyr Ser Pro Pro Thr
          85           90           95
Pro Thr Lys Ala Val Leu Gly Gln Ile Ile Lys Gly Cys Glu Met Ala
          100          105          110
Met Asn Asn Thr Ala Leu Leu Ala Lys Glu Asn His Asp Leu His Ala
          115          120          125
Ala Tyr Glu Lys His Leu
          130
  
```

<210> 31981
 <211> 84
 <212> PRT
 <213> A.fumigatus

<400> 31981

```

Leu Glu Pro Pro Arg Ser Arg Thr Asn Gly Ser Lys Arg Ser Ser Pro
1           5           10           15
Lys Phe Phe Pro Ser Leu Ala Pro Ser Ser Tyr Asn Thr Gln Pro Val
          20           25           30
  
```

12458

Arg Val Ser Leu Ala Phe Gly Ala Lys His Lys Glu Leu Trp Ser Ile
 35 40 45
 Ile Ile Lys Val Ala Glu Pro Val Leu Thr Ser Met Asn Pro Asp Leu
 50 55 60
 Trp Ala Arg Phe Gly Pro Ile Leu Glu Ala His Lys Ala Ala Tyr Gly
 65 70 75 80
 Ser Val Cys Arg

<210> 31982
 <211> 106
 <212> PRT
 <213> A.fumigatus

<400> 31982
 Val Leu Phe Trp Glu Cys Gly Glu Thr Ile Lys Glu Ser Ser Glu Lys
 1 5 10 15
 His Lys His Val Ala His Lys Leu Gly Glu Trp Ser Asp Val Ser Gln
 20 25 30
 Gly Met His Gln Ile Leu Val Trp Thr Ala Leu Gly Leu Glu Gly Val
 35 40 45
 Gly Ala Asn Leu Gln His Thr Asn Ser Ile Pro Pro Ile Glu Ala Ala
 50 55 60
 Ile Lys Lys Phe Ala Gly Val Pro Glu His Tyr Thr Trp Lys Ala His
 65 70 75 80
 Leu Asn Tyr Gly Asp Lys Gln Ala Asp His Pro Glu Lys Pro Ala Lys
 85 90 95
 Leu Pro Met Gly Glu Ile Leu Met Ile Leu
 100 105

<210> 31983
 <211> 85
 <212> PRT
 <213> A.fumigatus

<400> 31983
 Ile Ser Val Ser Pro Leu Gly Ala Thr Ile Gly Thr Val Arg Phe Leu
 1 5 10 15
 Thr Pro Leu Pro Gly Pro Ser Ser Phe Gly Leu Arg Arg Arg Phe Phe
 20 25 30
 Ala Lys Met Ala Val Leu Glu Thr Gln Pro Ala Pro Gln Lys Ala Pro
 35 40 45
 Glu Ser Ala Thr Ala Glu Pro Arg Lys Lys Leu Phe Gly Arg Glu Phe
 50 55 60
 Tyr Glu Ser Leu Gly Ser Pro Lys Tyr Ile Val Ala Pro Met Val Asp
 65 70 75 80
 Arg Ser Glu Phe Val
 85

<210> 31984
 <211> 261
 <212> PRT
 <213> A.fumigatus

<400> 31984
 Glu Val Pro Ser Ile Leu Trp His Leu Trp Ser Thr Asp Arg Asn Leu


```

1           5           10           15
Tyr Ser Pro Cys His Ser Tyr Gln Arg Ile Arg Thr Asn His Ser Ile
20           25           30
Ser Gln Ala Trp Arg Met Leu Thr Arg Ser Phe Met Pro Pro Asp Asp
35           40           45
Pro Lys Pro Ile Leu Ala Tyr Ser Pro Met Tyr His Ala Arg Leu Phe
50           55           60
Arg Glu Gln Ala Asn Val Arg Trp Gln His Phe Gln Pro Thr Arg Ala
65           70           75           80
Gly Leu Asp Lys Asn Asp Asn Ser Leu Tyr Leu Asp Gly Asn Pro Ala
85           90           95
Phe Asp Arg Pro Leu Ile Val Gln Phe Cys Ala Asn Asp Pro Asp Asp
100          105          110
Phe Leu Glu Ala Ala Arg His Val Ala Pro Tyr Cys Asp Ala Val Asp
115          120          125
Leu Asn Leu Gly Cys Pro Gln Gly Ile Ala Arg Lys Gly His Tyr Gly
130          135          140
Ala Phe Leu Gln Glu Asp Trp Asp Leu Ile Tyr Lys Leu Ile Asn Arg
145          150          155          160
Leu His Lys Glu Leu Pro Ile Pro Val Thr Ala Lys Phe Arg Ile Gln
165          170          175
Glu Ser Lys Glu Lys Thr Leu Glu Tyr Ala Lys Met Ile Leu Ser Ala
180          185          190
Gly Ala Ser Ile Ile Thr Leu His Gly Arg Thr Arg Glu Gln Lys Gly
195          200          205
His Asn Thr Gly Leu Ala Asp Trp Ser Tyr Ile Arg Tyr Leu Arg Asp
210          215          220
Asn Leu Pro Pro Glu Thr Val Ile Phe Ala Asn Gly Asn Asn Leu Asn
225          230          235          240
His Asp Asp Leu Glu Arg Cys Leu Glu Ala Thr Gly Ala Asp Gly Val
245          250          255
Met Ser Ala Glu Gly
260

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<210> 31985

<211> 138

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (133)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31985

```

Ser Thr Thr Glu Pro Pro Ile Pro Pro Asn Arg Arg Phe Ala Ala Asn
1           5           10           15
Ile Ile Glu Phe Leu Glu Pro Ser Asn Gln His Ile Ile Ser Leu Pro
20           25           30
Leu Leu Leu Lys Met Pro Leu Ser Lys Glu Asn Arg Met Gln Met Ala
35           40           45
Ile Ser Ala Tyr Lys Lys Gly Gln Phe Lys Ser Lys Ala Ala Ala Ala
50           55           60
Lys Val Phe Gly Val Ser Arg Glu Thr Leu Arg Asp Arg Leu Arg Gly
65           70           75           80
Ile Lys Pro Arg Ala Glu Thr Arg Ala Asn Ser His Lys Leu Thr Ala

```

12460

				85					90					95					
Leu	Glu	Glu	Glu	Ala	Leu	Ala	Lys	Arg	Leu	Leu	Asp	Ala	Asp	Arg	Arg				
			100					105					110						
Gly	Phe	Ser	Ile	Arg	Pro	Gln	Phe	Leu	Arg	Gly	Met	Ala	His	Ile	Pro				
		115					120					125							
Thr	Tyr	Cys	Leu	Xaa	Asn	Pro	Gly	Gly	Lys										
	130					135													

<210> 31986

<211> 467

<212> PRT

<213> A.fumigatus

<400> 31986

Pro	Pro	Leu	Gly	Ser	Ala	Ala	Val	Glu	Arg	Lys	Pro	Leu	His	Arg	Thr				
1				5					10					15					
Leu	Thr	Ile	Ala	Gln	Ala	Val	Lys	Ala	Arg	Pro	Ser	Gly	Pro	Lys	Gly				
			20					25					30						
Gly	Arg	Pro	Leu	Met	Ser	Arg	Glu	Ala	Arg	Leu	Asp	Ser	Ser	Gln	Ala				
		35					40					45							
Arg	Asn	Asn	Lys	Arg	Val	Arg	Leu	Trp	Ala	Ala	Arg	Pro	Ser	Lys	Arg				
	50					55					60								
Arg	Lys	Thr	Leu	Ser	Leu	Leu	Glu	Thr	Leu	Pro	Val	Glu	Leu	Ile	Glu				
	65				70					75				80					
Lys	Ile	Phe	Leu	Tyr	Ser	Leu	Asn	Val	Asn	Leu	Pro	Arg	Ala	Ser	Pro				
				85					90					95					
Ser	Leu	Ala	Ala	Ala	Val	Ser	Ser	Glu	Arg	Ile	Tyr	Arg	Val	Leu	Ile				
		100						105					110						
Leu	Leu	Gly	Phe	Trp	Asn	Asp	Ser	Ala	Ser	Glu	Ala	Glu	Asp	Pro	Asp				
		115					120						125						
Ser	Ala	Ile	Ser	Arg	Ile	Leu	Arg	Pro	Leu	Asp	Tyr	Ala	Pro	Leu	Gln				
	130					135					140								
Asp	Asp	Asp	Arg	Glu	Asn	Leu	Gln	Thr	Ser	Val	Leu	Arg	Cys	Arg	Trp				
	145				150					155					160				
Cys	Thr	Met	Pro	Arg	Leu	Leu	Met	Gln	Leu	Ser	Asp	Met	Thr	Asn	Leu				
				165					170					175					
Thr	Ile	Gln	Arg	His	Trp	Val	Asn	Ala	Gly	Ile	Glu	Met	Thr	Arg	Asp				
			180					185					190						
Gln	Gln	Glu	Ser	Leu	Asp	Arg	Phe	Leu	Ala	Arg	Glu	Asn	Asp	Thr	Ser				
		195					200						205						
Thr	Tyr	Glu	Gly	Thr	Asp	Lys	Asp	Gly	Asn	His	Tyr	Thr	Leu	Ser	Ile				
	210					215					220								
Thr	Pro	Phe	Val	Ser	Ile	Asn	Ile	Ala	Cys	Gln	Glu	Thr	Asp	Glu	Gln				
	225					230					235				240				
Gln	Thr	His	Lys	Ile	Leu	Ser	Ile	Lys	His	Phe	Pro	Glu	Lys	Leu	Leu				
				245					250					255					
Leu	Gly	Ala	Ser	Gly	Glu	Gly	Phe	Ser	Asp	Asp	His	Ala	Thr	His	Leu				
		260						265					270						
Glu	Ile	Met	Arg	Val	Ala	Cys	Gly	Leu	Ser	Arg	Ser	Asp	His	Leu	Glu				
		275					280					285							
Thr	Asp	Val	Ser	Val	Ser	Arg	Glu	Ser	Leu	His	Gln	Gly	Val	His	Ile				
	290					295					300								
Ala	Leu	Val	Glu	His	Asn	Thr	Arg	Ala	Leu	Ala	Thr	Leu	Leu	Lys	Ile				
	305					310				315					320				
Asp	Glu	Tyr	Ile	Phe	Arg	Ser	Asn	Ala	Ala	Val	Ala	Gly	Gly	Leu	Pro				
				325					330					335					

Tyr Ser Ile Pro Pro Glu His Phe Arg Thr Ala Val Arg Val Ala Arg
 340 345 350
 Asn Asp Pro Ala Leu Phe Gln Thr Leu Leu Arg Ala Ser Ala Glu Ser
 355 360 365
 Val Pro Ala Asp Asp Pro Asp Ile Thr Glu Trp Ala Met Asn Leu Gly
 370 375 380
 Asp Pro Phe Gly His Trp Leu Leu Asp Leu Met Leu Arg Leu Pro Gln
 385 390 395 400
 Gln Ile Glu Thr Ala Asn Ala Asn Pro Ala Glu Gly Ala Leu Phe Tyr
 405 410 415
 Leu Gly Arg Ala Asn Gly His Ile Glu Leu Ala Arg Arg Tyr Leu Arg
 420 425 430
 Asp Val Leu Asn Val Asp Glu Leu Pro Ser Trp Met Glu Ala Ser Asp
 435 440 445
 Asp Leu Phe Arg Gln Trp Arg Val Ile Thr Thr Thr Thr Gly Ile Tyr
 450 455 460
 Met Phe Val
 465

<210> 31987

<211> 193

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (10)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31987

Ile Cys Gly Gly Lys Arg Tyr Asn His Xaa Arg His Pro Tyr Gly His
 1 5 10 15
 Tyr Phe Thr Pro Thr Phe Phe Ala Asp Val Thr Pro Ser Met Arg Ile
 20 25 30
 Ala Gln Thr Glu Leu Phe Ala Pro Val Phe Val Leu Met Arg Ala Glu
 35 40 45
 Ser Val Ser His Ala Ile Ser Ile Ala Asn Ser Thr Met Tyr Ala Leu
 50 55 60
 Gly Ala Ser Val Phe Gly Tyr Asn Gln Lys Asp Val Ala Ala Cys Val
 65 70 75 80
 Ser Gln Ile Lys Ala Gly Met Val Ser Val Asn Asp Phe Ala Ser Tyr
 85 90 95
 Tyr Ala Val Gln Leu Pro Phe Gly Gly Val Lys Gly Ser Gly Tyr Gly
 100 105 110
 Arg Phe Ala Gly Glu Glu Gly Leu Arg Ser Val Ser Asn Ile Lys Ala
 115 120 125
 Val Cys Val Asp Arg Phe Pro Arg Leu Met Ala Thr Arg Ile Pro Pro
 130 135 140
 Arg Val Asp Tyr Pro Ile Gln Lys Gly Asp Asp Lys Gln Asn Gly
 145 150 155 160
 Thr Gly Ala Trp Glu Leu Cys Lys Gly Val Val Glu Thr Gly Tyr Gln
 165 170 175
 Leu Thr Leu Ala Gly Arg Leu Gly Gly Ile Leu Arg Leu Leu Lys Asn
 180 185 190
 Met

<210> 31988
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 31988
 Ile Gln Gly Val Phe Arg Ser Ile Gly Ala Cys Leu Met Gly Ile Val
 1 5 10 15
 Asn Thr Ile Gly Ala Val Leu Lys Ala Ile Ile Asn Gly Val Val Ser
 20 25 30
 Leu Cys Asn Ile Val Ile Ser Cys Leu Thr Cys Gly Tyr Cys Gly Asn
 35 40 45
 Arg Gly Arg Met Arg Ser Ser Arg His Arg Arg Ser Arg Val
 50 55 60

<210> 31989
 <211> 103
 <212> PRT
 <213> A.fumigatus

<400> 31989
 Asn Tyr Val Leu Arg Ser Thr Phe Phe Ser Pro Gly Phe Tyr Ser Tyr
 1 5 10 15
 Ala Ala Cys Pro Phe His Asp Ile Gln Leu Ser His Ser Trp Asn Ile
 20 25 30
 Pro Thr Ser Tyr Ile Ile Leu Arg Pro Trp Arg Tyr Cys Asp Ile Val
 35 40 45
 Pro Ala Ile Tyr Ser Leu Thr Ile Pro Leu Val Gln Pro Phe Thr Met
 50 55 60
 Arg Pro Phe Ser Asp Thr Ser Val His Thr Thr Ala Ser Ser Ser Thr
 65 70 75 80
 Leu Ser Asn Thr Asp Asn Ala Ser Ser Ser Lys Pro Gln Thr Val Ile
 85 90 95
 His Ile Lys Thr Lys Ile Leu
 100

<210> 31990
 <211> 264
 <212> PRT
 <213> A.fumigatus

<400> 31990
 Glu Asn Ile Val Ile Ala Thr Lys Val Trp Ala Pro Val Gly Arg Gly
 1 5 10 15
 Lys Glu Tyr Pro Leu Phe Leu Ser Asn Glu Glu Arg Asp Asn Ala Gly
 20 25 30
 Tyr Val Asn Glu Tyr Gly Leu Ser Arg Lys His Ile Phe Asp Ser Ile
 35 40 45
 Glu Ala Ser Leu Lys Arg Leu Asp Leu Pro Tyr Val Asp Leu Leu Gln
 50 55 60
 Ile His Arg Phe Asp Pro Asn Thr Pro Val Lys Glu Thr Met Glu Ala
 65 70 75 80
 Leu His Asp Val Val Lys Ser Gly Lys Val Arg Tyr Ile Gly Ala Ser
 85 90 95
 Ser Met Trp Ala His Gln Leu Leu Glu Tyr Gln Tyr Thr Ala Arg Met

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<210> 31991
<211> 61
<212> PRT
<213> A.fumigatus
```

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<210> 31992
<211> 66
<212> PRT
<213> A.fumigatus
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<210> 31993
<211> 115
```

<212> PRT

<213> A.fumigatus

<400> 31993

```

Ile Ser His Ser Arg Tyr Asn His Asn Leu Ser Ser Thr Val Ser Leu
1          5          10          15
Pro Ile Asn Met Phe Thr Ala Arg Arg Leu Leu Thr Ser Ala Pro Arg
          20          25          30
Ala Ile Ser Arg Arg Ala Leu Phe His Ser Thr Ala Pro Ala Phe Val
          35          40          45
Gln Lys Gly Asp Ala Ile Pro Asp Leu Asp Val Leu Val Glu Ser Ser
          50          55          60
Pro Gly Asn Lys Val Asn Leu Ala Lys Glu Leu Lys Gly Lys Gly Ile
65          70          75          80
Ile Ile Gly Val Pro Ala Ala Phe Ser Thr Phe Ala Ala Pro Arg Leu
          85          90          95
Glu Pro Leu His Leu Leu Arg Ile Gln Ser Asp Met Arg Ser Thr Arg
          100          105          110
Gly Lys Arg
          115

```

<210> 31994

<211> 186

<212> PRT

<213> A.fumigatus

<400> 31994

```

Cys Ala Thr Arg Gly Ser Phe Gln Pro Arg Gly Glu Asp Lys Ile Leu
1          5          10          15
Lys Ser Pro Gly Ala Arg Lys Ile Pro Ile Phe Val Lys Asp Met Glu
          20          25          30
Glu Thr Ile Asn Thr Ala Thr Gln Phe Val Ser Gln Arg Ile Cys Pro
          35          40          45
Ile Phe Gln Val Ser Asn Val Thr Gly Glu Asn Leu Glu Leu Val Arg
          50          55          60
Thr Phe Leu Asn Ile Leu Pro His Arg Gly Gln Tyr Asn Thr Glu Ala
65          70          75          80
Pro Phe Glu Phe Leu Ile Asn Asp Thr Phe Ser Val Pro His Val Gly
          85          90          95
Thr Val Val Ser Gly Val Ala Lys Ser Gly Val Ile His Ala Gly Asp
          100          105          110
Ser Val Leu Val Gly Pro Asp Ser Leu Gly Gln Phe Thr Thr Thr Thr
          115          120          125
Ile Lys Ser Ile Glu Arg Lys Arg Ile Gln Val Asn Ala Cys Phe Ala
          130          135          140
Gly Gln Ser Gly Ser Phe Ala Leu Lys Arg Val Arg Arg Lys Glu Val
145          150          155          160
Arg Lys Gly Met Val Val Leu Lys Lys Leu Glu Gln Pro Pro Lys Val
          165          170          175
Tyr Arg Glu Phe Val Ala Glu Gly Thr Phe
          180          185

```

<210> 31995

<211> 96

<212> PRT

<213> A.fumigatus

<400> 31995

Leu	Glu	Pro	Val	Leu	Ile	Leu	Ser	His	Ala	Thr	Thr	Ile	Lys	Pro	Arg
1				5					10					15	
Tyr	Gln	Ala	Met	Leu	His	Val	Gly	Ala	Val	Ser	Gln	Thr	Cys	Ser	Val
		20					25						30		
Ile	Asp	Ile	Asp	Arg	Pro	Phe	Ile	Arg	Thr	Gly	Asp	Arg	Ala	Leu	Val
	35						40					45			
Ala	Phe	Arg	Phe	Ile	Gln	Arg	Pro	Glu	Phe	Leu	Ala	Pro	Gly	Asp	Arg
	50					55					60				
Val	Leu	Phe	Arg	Glu	Gly	Lys	Thr	Lys	Gly	Leu	Gly	Ile	Val	Lys	Ser
65					70					75					80
Val	Gly	Tyr	Asp	Pro	Asp	His	Pro	Leu	Asn	Pro	Glu	Ala	Lys	Thr	Lys
				85					90					95	

<210> 31996

<211> 520

<212> PRT

<213> A.fumigatus

<400> 31996

Phe	Tyr	Ser	Asn	Ser	Phe	Gly	Ser	Ala	Trp	Arg	Ser	Phe	Trp	His	Thr
1				5					10					15	
Met	Thr	Ser	Tyr	Asp	Arg	His	Ala	Ser	His	Asp	Ser	Pro	Tyr	Arg	Thr
		20					25					30			
Gly	Arg	His	Val	Pro	Leu	Ser	Gln	Ser	Arg	His	Glu	Pro	Leu	Thr	Ser
	35						40					45			
Ile	Ala	Thr	Ser	Ala	Ile	Glu	Ser	Arg	Pro	Asp	Leu	Thr	Asp	Thr	Phe
	50					55					60				
Glu	Asp	Asp	Gln	Pro	Lys	Gly	Ser	Thr	Asn	Ser	Asn	Ser	Asn	Gly	Trp
65					70				75						80
Thr	Gly	Ser	Pro	Thr	Gly	Val	Gly	Ser	Pro	Asn	Arg	Pro	Tyr	Ser	Pro
			85						90					95	
Gly	Leu	Arg	Ser	Leu	Ser	Ser	Gln	Lys	Arg	Arg	Ser	Thr	Glu	Arg	Gly
		100						105					110		
Ala	Asp	Gly	Ala	Pro	Glu	Ile	Gln	Met	Gln	Ser	Phe	His	Asp	Gly	Ala
	115						120					125			
Pro	Pro	Pro	Pro	Pro	Val	Ala	His	Ser	Trp	Arg	Lys	Ile	Asp	Arg	Trp
	130					135					140				
Leu	Glu	Asn	Asn	Tyr	Glu	Glu	Leu	Tyr	Asp	Asn	Leu	Cys	Glu	Gly	Cys
145					150					155					160
Thr	Gln	Asn	Asp	Ile	Asn	Glu	Leu	Glu	His	Glu	Leu	Asp	Cys	Ser	Leu
			165						170					175	
Pro	Leu	Glu	Val	Arg	Glu	Ser	Leu	Met	Ile	His	Asp	Gly	Gln	Glu	Arg
		180						185					190		
Pro	Gly	Leu	Pro	Thr	Gly	Val	Ile	Phe	Gly	Cys	Met	Leu	Leu	Asp	Cys
	195					200						205			
Glu	Glu	Ile	Val	Gln	Glu	Trp	Lys	Asn	Trp	Arg	Thr	Val	Asn	Glu	Glu
	210					215					220				
Phe	Leu	Ser	Asn	Ser	Thr	Met	Met	Asn	Pro	Pro	Pro	Lys	Ala	Thr	Ala
225					230					235					240
Ser	Ser	Ser	Ser	Ala	Val	Pro	Pro	Leu	Gln	Gly	Ala	Asn	Pro	Leu	Trp
				245					250					255	
Arg	Gln	Glu	Leu	Leu	Asp	Arg	Gln	Asp	Ser	Gln	Pro	Pro	Gly	Ala	Val
		260						265					270		
Gln	Lys	Ala	Tyr	Ala	His	Pro	Ala	Trp	Ile	Pro	Leu	Ala	Arg	Asp	Trp

	275		280		285										
Gly	Gly	Asn	Asn	Ile	Ala	Ile	Asp	Leu	Ala	Pro	Gly	Pro	Ala	Gly	Lys
	290					295					300				
Trp	Gly	Gln	Val	Ile	Ile	Phe	Gly	Arg	Asp	Tyr	Asp	Cys	Lys	Tyr	Val
305					310					315					320
Val	Ala	Arg	Ser	Trp	Ala	Ala	Phe	Leu	Ala	Val	Leu	Ala	Asp	Asp	Ile
				325					330					335	
Cys	Ser	Gly	Lys	Val	Ser	Val	Asp	Glu	Glu	Thr	Asn	Glu	Leu	Lys	Leu
			340						345				350		
Leu	Glu	Phe	Lys	Gly	Gln	Asn	Val	Glu	Pro	Pro	Tyr	Leu	Glu	Ile	Leu
		355					360					365			
Arg	Trp	Arg	Thr	Asp	Gln	Lys	Tyr	Gly	Arg	Arg	Ala	Pro	Arg	Arg	Lys
	370					375						380			
Ala	Pro	Asn	Gly	Leu	Gly	Leu	Asn	Thr	Asn	Ser	Arg	Pro	Gly	Lys	Glu
385					390					395					400
Ser	Pro	Tyr	Gly	Ser	Pro	Thr	Pro	Ser	Glu	Glu	Arg	Gly	Arg	Ser	Pro
				405					410					415	
His	Arg	Phe	Pro	Asn	Arg	Gly	Ser	Thr	Gln	Ser	Pro	Lys	Thr	Gln	Phe
			420					425					430		
Gly	Val	Ser	Ser	Pro	Leu	Ala	Arg	Val	Thr	Glu	Glu	Ala	Thr	Ser	Pro
		435					440					445			
Val	Asn	Thr	Ser	Ala	Glu	Val	Glu	Met	Pro	Glu	Asp	Ala	Phe	Lys	Glu
	450					455					460				
His	Arg	Lys	Glu	Pro	Glu	Thr	Asp	Asp	Leu	Met	Glu	Val	Val	Thr	Pro
465					470				475						480
Gln	Ile	Ser	Gly	Lys	Glu	Asn	Gln	Asp	Leu	Thr	Asp	Lys	His	Asp	Glu
				485					490					495	
Trp	Lys	Ser	Pro	Lys	Pro	Glu	Lys	Val	Gln	Arg	Arg	Glu	Ser	Ser	Gln
			500					505					510		
Gly	Thr	Thr	Ala	Val	Ser	Glu	Thr								
		515					520								

<210> 31997

<211> 139

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (8)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 31997

Pro	Ser	Ala	Pro	Ser	Gly	Glu	Xaa	Ala	Thr	Arg	Asp	His	Glu	Val	Arg
1			5						10					15	
Phe	Ala	Arg	Val	Asp	Val	Arg	Asn	Thr	Pro	Phe	Val	Val	Asn	Lys	Leu
			20					25					30		
Asn	Ile	Arg	Val	Leu	Pro	Cys	Val	Ile	Gly	Phe	Lys	Asp	Gly	Ile	Val
			35				40					45			
Val	Glu	Arg	Val	Val	Gly	Phe	Glu	Gly	Leu	Gly	Ala	Gly	Gly	Arg	Asp
			50			55					60				
Gly	Ala	Asp	Ser	Phe	Asp	Ile	Ala	Thr	Leu	Glu	Lys	Arg	Leu	Leu	Trp
65					70					75				80	
Lys	Gly	Ile	Leu	Thr	Gln	Thr	Lys	Phe	Lys	Asn	Asn	Glu	Asp	Asp	Ser
				85					90					95	
Asp	Ile	Ser	Glu	Gly	Gly	Ser	Gly	Asp	Glu	Gly	Ser	Asn	Arg	Arg	Arg

	100		105		110
Pro Cys Thr Gly Arg Arg Thr Ile Arg Ser Gly Asn Gly Arg His His					
	115		120		125
Gly Gly Asp Asp Asp Asp Asp Asp Asp Trp Gly					
	130		135		

<210> 31998

<211> 478

<212> PRT

<213> A.fumigatus

<400> 31998

Ala Ala His Tyr Pro Leu Lys Asp Cys Gly Gln Thr Leu Gln Arg Pro					
1	5		10		15
Phe Thr Ser Thr Met Pro Pro Pro Lys Leu Ser Tyr Gly Leu Asn Leu					
	20		25		30
Pro Ser Lys Lys Ala Pro Ile Ser Lys Leu Gly Pro Pro Gly Ser Gln					
	35		40		45
Lys Arg Lys Lys Thr Ile Phe Asp Ser Asp Ser Glu Gly Asp Asn Gln					
	50		55		60
Asn Asp Ala Gly Asp Gly Gly Gly Asp Gly Pro Ile Glu Ile Thr Thr					
65	70		75		80
Ile Gly Gly Leu Glu Glu Pro Pro Arg Pro Ser Thr Asn Glu Arg Gln					
	85		90		95
Thr Thr Glu Pro Pro Ala Lys Arg Lys Pro Leu Ala Gly Pro Pro Thr					
	100		105		110
Gly Lys Pro Asn Ile Lys Pro Leu Ser Lys Asn Ser Ile Phe Ala Asp					
	115		120		125
Gly Glu Glu Thr Gln Glu Pro Gln Ala Met Pro Leu Gly Leu Asn Pro					
	130		135		140
Ala Lys Asn Lys Ser Ser Ala Pro Pro Thr Ala Glu Leu Thr Asn Leu					
145	150		155		160
Ser Ala Leu Arg Ser Ser Lys Lys His Ala Glu Asp Ala Gln Gln Leu					
	165		170		175
Asp Pro Thr Ile Tyr Ser Tyr Asp Ala Ile Tyr Asp Ser Leu His Thr					
	180		185		190
Ala Lys Ser Asp Lys Ala Lys Ala Ala Ser Ala Asp Ala Lys Asn Asp					
	195		200		205
Gly Pro Arg Tyr Met Thr Ser Leu Leu Arg Ser Ala Glu Ile Arg Lys					
	210		215		220
Arg Asp Gln Leu Arg Ala Arg Asp Arg Leu Leu Ala Lys Glu Arg Glu					
225	230		235		240
Ala Glu Gly Asp Glu Phe Ala Asp Lys Glu Lys Phe Val Thr Ser Ala					
	245		250		255
Tyr Lys Ala Gln Gln Glu Glu Leu Arg Arg Ile Glu Gln Glu Glu Ala					
	260		265		270
Glu Arg Glu Arg Gln Glu Glu Glu Arg Arg Lys Gln Asn Gly Gly Ala					
	275		280		285
Gly Met Val Gly Phe Tyr Arg Asp Met Leu Ser Arg Asp Glu Gln Arg					
	290		295		300
His Glu Glu Val Val Lys Ala Ala Glu Glu Ala Ala Arg Arg Val Gln					
305	310		315		320
Ala Gly Glu Ile Pro Ala Asp Glu Ala Ala Ala Glu Ala Glu Ala Ser					
	325		330		335
Lys Glu Lys Thr Glu Ala Gln Ile Ala Ala Glu Leu Asn Ala Lys Gly					
	340		345		350

Ala His Ile Ala Ile Asn Asp Glu Gly Glu Ile Val Asp Lys Arg Gln
 355 360 365
 Leu Leu Ser Ala Gly Leu Asn Val Ala Pro Lys Pro Lys Pro Ser Ala
 370 375 380
 Ser Ala Ser Ala Ala Ala Ala Ala Arg Ala Ala Ala Asn Lys Pro
 385 390 395 400
 Arg Leu Asp Ser Gly His His Ala Ala Arg Thr Asn Gln Arg Ala Arg
 405 410 415
 Gln Thr Glu Met Ile Ala Arg Gln Leu Glu Glu Lys Ala Arg Gln Glu
 420 425 430
 Ala Glu Ala Glu Ala Ala Arg Gln Arg Glu Ile Ala Glu Arg Thr Arg
 435 440 445
 Thr Arg Lys Thr Glu Thr Asp Val Leu Ser Ala Lys Glu Arg Tyr Leu
 450 455 460
 Ala Arg Lys Arg Glu Arg Glu Glu Ala Ala Lys Lys Gly Ser
 465 470 475

<210> 31999

<211> 92

<212> PRT

<213> A.fumigatus

<400> 31999

Ala Arg Thr Pro Ser Leu Pro Thr Gly Lys Arg Pro Lys Asn His Arg
 1 5 10 15
 Gln Cys Arg Trp Ala Ser Thr Pro Gln Lys Thr Asn Pro Ala Arg His
 20 25 30
 Pro Pro Pro Ser Ser Gln Thr Phe Pro Pro Ser Ala Val Ala Arg Asn
 35 40 45
 Thr Pro Arg Thr Pro Asn Ser Leu Thr Pro Pro Ser Thr Pro Thr Thr
 50 55 60
 Pro Ser Thr Thr Ala Cys Ile Pro Pro Asn Leu Thr Lys Pro Lys Pro
 65 70 75 80
 Leu Pro Arg Thr Pro Lys Thr Thr Gly Arg Gly Thr
 85 90

<210> 32000

<211> 263

<212> PRT

<213> A.fumigatus

<400> 32000

Gly Arg Gly Arg Arg Val Arg Arg Gln Gly Glu Val Arg Asp Val Arg
 1 5 10 15
 Val Gln Gly Ala Ala Gly Gly Ala Ala Asp Arg Ala Gly Arg Ser
 20 25 30
 Arg Ala Gly Thr Ala Gly Gly Gly Ala Ala Glu Ala Glu Arg Arg Gly
 35 40 45
 Gly Asp Gly Arg Val Leu Pro Gly His Ala Ile Ala Arg Arg Ala Ala
 50 55 60
 Ala Arg Gly Ser Arg Gln Gly Cys Arg Gly Gly Arg Ala Thr Gly Ala
 65 70 75 80
 Gly Gly Arg Asp Pro Ser Arg Arg Ser Arg Arg Gly Gly Gly Ser Lys
 85 90 95
 Gln Gly Lys Asp Arg Gly Ala Asp Arg Arg Gly Ala Gln Arg Gln Gly
 100 105 110

Arg Ala His Arg His Gln Arg Arg Gly Arg Asn Arg Arg Gln Ala Ala
 115 120 125
 Ala Ala Val Arg Gly Ala Glu Arg Arg Ala Gln Ala Gln Ala Val Arg
 130 135 140
 Leu Gly Glu Arg Arg Cys Gly Cys Cys Ser Cys Gly Cys Gln Gln Ala
 145 150 155 160
 Ala Ser Arg Leu Gly Ala Pro Arg Gly Ala Asp Glu Pro Ala Arg Pro
 165 170 175
 Ser Asp Gly Asp Asp Arg Ala Thr Ala Arg Gly Glu Gly Pro Thr Gly
 180 185 190
 Ser Arg Gly Arg Gly Arg Ala Thr Ala Gly Asp Arg Gly Ala His Ala
 195 200 205
 Tyr Ser Gln Asn Gly Asp Gly Cys Ala Glu Arg Glu Gly Ala Ile Ser
 210 215 220
 Gly Glu Lys Ala Gly Ala Arg Arg Ser Gly Gln Glu Gly Val Val Ala
 225 230 235 240
 Leu Leu Val Tyr Phe Ala Ser Ala Leu Thr Arg Cys Leu Asn Arg
 245 250 255
 Arg Lys Gly Arg Asn Ser Ala
 260

<210> 32001
 <211> 80
 <212> PRT
 <213> A.fumigatus

<400> 32001
 Leu Pro Val Pro Lys Met Ser Tyr Tyr Phe Thr Ile Leu Ser Pro Thr
 1 5 10 15
 Asp Val Pro Leu Phe Asn Ile Ala Phe Gly Thr Ser Lys Gly Gly Gly
 20 25 30
 Asp Gly Ile Ala Arg Phe Arg Phe Pro Asp Thr Ala Gln Tyr Met Asn
 35 40 45
 Gln Phe Ile Ile His Ser Ser Leu Asp Ile Val Glu Glu Ala Gln Trp
 50 55 60
 Met Asn Gly Asn Met Tyr Gly Pro Pro Tyr Ser Asn Leu Thr Asp Ile
 65 70 75 80

<210> 32002
 <211> 125
 <212> PRT
 <213> A.fumigatus

<400> 32002
 Thr Ser Lys Ala Thr Thr Pro Ser Trp Pro Leu Leu Leu Ala Pro Ala
 1 5 10 15
 Phe Ser Pro Asp Ile Ala Pro Ser Arg Ser Ala His Pro Ser Pro Phe
 20 25 30
 Cys Glu Tyr Ala Cys Ala Pro Arg Ser Pro Ala Val Ala Arg Pro Arg
 35 40 45
 Pro Arg Leu Pro Val Gly Pro Ser Pro Leu Ala Val Ala Arg Ser Ser
 50 55 60
 Pro Ser Asp Gly Arg Ala Gly Ser Ser Ala Pro Arg Gly Ala Pro Ser
 65 70 75 80
 Arg Asp Ala Ala Cys Trp Gln Pro His Glu Gln Gln Pro Gln Arg Arg
 85 90 95

12470

Ser Pro Arg Arg Thr Ala Trp Ala Trp Ala Arg Arg Ser Ala Pro Arg
 100 105 110
 Thr Ala Ala Ala Ala Cys Arg Arg Phe Arg Pro Arg Arg
 115 120 125

<210> 32003
 <211> 151
 <212> PRT
 <213> A.fumigatus

<400> 32003
 Arg Leu Pro Arg Ala Ala Ala Arg Leu Ala Ile Ala Cys Pro Gly Arg
 1 5 10 15
 Thr Arg Pro Ser Pro Pro Arg Arg Ser Ala Ser Ala Ala Pro Pro Pro
 20 25 30
 Ala Val Pro Ala Leu Leu Leu Pro Ala Arg Ser Ala Ala Ala Pro Pro
 35 40 45
 Ala Ala Pro Cys Thr Arg Thr Ser Arg Thr Ser Pro Cys Arg Arg Thr
 50 55 60
 Arg Arg Pro Leu Pro His Ala Leu Trp Arg Ala Ala Cys Pro Ala Arg
 65 70 75 80
 Ala Ala Gly Pro Ala Cys Gly Ser Leu His Cys Ala Ile Ala Arg Ser
 85 90 95
 Cys Thr Ala Ala Arg Arg Phe Trp Arg Pro Arg Lys Arg Leu Trp Leu
 100 105 110
 Cys Gln Ile Trp Arg Tyr Ala Gly Cys Arg Arg Trp Arg Arg Arg Ser
 115 120 125
 Arg Trp Trp Gly Gln Ala Val Gly Arg Pro Arg Arg Val Ser Cys Tyr
 130 135 140
 Cys Gly Gly Arg Lys Gly Leu
 145 150

<210> 32004
 <211> 84
 <212> PRT
 <213> A.fumigatus

<400> 32004
 Thr Arg Val Glu Tyr Met Glu Lys Gly Gly Asp Ile Gly Arg Arg Gly
 1 5 10 15
 Glu Arg Lys Lys Asn Glu Ile Pro Tyr Thr Leu Ser Tyr Thr Gln Gln
 20 25 30
 Thr Ser Leu Cys Leu Trp Arg Gly Trp Lys Arg Leu Leu Ala Asp Pro
 35 40 45
 Ser Leu Pro Tyr Ile Gln Leu Gly Gly Asn Thr Ile Val Gly Leu Ser
 50 55 60
 Trp Glu Val Ser Ser Ser Ile Cys Thr Met Thr Gln Thr Ala Cys Thr
 65 70 75 80
 Ala Glu Glu Gly

<210> 32005
 <211> 64
 <212> PRT
 <213> A.fumigatus

12471

<400> 32005

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Asn Cys Glu Ala Asn Ala Glu Ala Cys Thr Val Tyr Tyr Lys Ala Gly
1           5           10           15
Asn Ile His His Asn Trp Ser Leu Thr Phe Val Phe Ser Ser Val Ser
          20           25           30
Gly Ser Met Phe Leu Gln Phe Leu Ala Ile Gly Thr Pro Asp His Tyr
          35           40           45
Ser Ser Phe Leu Ile Gly Arg Cys Arg Gly Ser His Gly Leu Ser Val
          50           55           60

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<210> 32006

<211> 128

<212> PRT

<213> A.fumigatus

<400> 32006

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Val Ile Val Asp Val Gln Pro Pro Phe Ser Cys Tyr Val Tyr Arg Gly
1           5           10           15
Tyr Tyr Gly Ala Ala Thr Gly Lys Gly Arg Gln Ala Ala Lys Ala Glu
          20           25           30
Leu Glu Lys Leu Asp Leu Ala Ser Glu Lys Leu Thr Leu Leu Glu Ala
          35           40           45
Val Arg Glu Ala Ala Arg Ile Ile Tyr Val Ala His Glu Asp Ser Lys
          50           55           60
Asp Lys Glu Phe Glu Leu Glu Met Ser Trp Ile Ser Ser Leu Asp Gly
          65           70           75           80
Pro Thr Lys Gly Lys His Glu Ala Val Pro Arg Glu Leu Leu Glu Glu
          85           90           95
Ala Glu Lys Ala Ala Lys Arg Ala Leu Glu Gly Glu Asp Glu Asp Glu
          100          105          110
Glu Glu Thr Thr Lys Asn Asp Gly Asn Gly Gly Glu Arg Met Glu Glu
          115          120          125

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<210> 32007

<211> 82

<212> PRT

<213> A.fumigatus

<400> 32007

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Val Pro Trp Gly Tyr Gly Asp Leu Phe Asn Gly Asp Arg Phe Cys Gln
1           5           10           15
Ile Ala Trp Glu Ile Asn Val Glu Ser Leu Ser Asn Ser Lys Pro Ile
          20           25           30
Ser Asn Lys Leu Gln Arg Asn Asn Val Glu Lys Ser Leu Lys Ala Val
          35           40           45
Asn Gly Leu Trp Asp Leu Asn Leu Phe Gly Leu Gly Gly Arg Glu Leu
          50           55           60
Trp Val Val Met Val Ala Asn His Asn Gly Thr Thr Ala Ser Asn
          65           70           75           80
His Trp

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<210> 32008

<211> 96

<212> PRT

<213> A.fumigatus

<400> 32008

Gly Pro Ile Pro Ile Ser Ala Leu Ala Asn Arg Leu Gly Ser Tyr Val
 1 5 10 15
 Gln Ala Tyr Thr Leu Tyr Ser Ser Val Arg Pro Phe Gly Val Thr Ala
 20 25 30
 Ile Val Gly Gly Trp Asp Ser Asp Thr Glu Leu Ala Val Asp Gly Gln
 35 40 45
 Val Gly Thr Gly Pro Ala Ala Gly Ser Gly Gly Lys Thr Ser His Ala
 50 55 60
 Lys Val Gly Gly Pro Gly Leu Tyr Met Ile Glu Pro Ser Gly Leu Tyr
 65 70 75 80
 Trp Val Ser Asp Arg Gly Arg Ser Thr Ser Phe Leu Val Leu Cys Leu
 85 90 95

<210> 32009

<211> 121

<212> PRT

<213> A.fumigatus

<400> 32009

Arg Tyr Leu Pro Leu Leu Ile Ala Val Arg Leu Asn Asn Phe Ser Phe
 1 5 10 15
 Tyr Pro Val Ser Ser Leu Gln Thr Lys Phe His Gly Gly Phe Thr Pro
 20 25 30
 Ile Leu Thr Met Ile Val His Ser Leu Leu Ala Lys Thr Ser Ser Phe
 35 40 45
 Gln Ala Leu Phe Phe Arg Gln Asn Ser Glu His Ser Glu Asn Tyr Trp
 50 55 60
 His Ala Ser Ile Lys Leu Asn Thr His Gln Thr Met Arg His Arg Ile
 65 70 75 80
 Arg Asn Val Leu Lys Met His Cys Leu Ser Leu Asp Glu Asn Thr Asp
 85 90 95
 Ser Asn Asp Gly Val Lys Arg Leu Ser Cys Ser Arg Ser Trp Arg Cys
 100 105 110
 Leu Thr Gln Val Cys Ser Arg Gly Arg
 115 120

<210> 32010

<211> 89

<212> PRT

<213> A.fumigatus

<400> 32010

Leu Ser Leu Pro Pro Ala Phe Ile Leu His Thr Ser Asn His Ser Pro
 1 5 10 15
 Val Ile Ala Arg Gly Gly Arg Pro Ile Val Ile Cys Asn His Asp Asp
 20 25 30
 Pro Glu Phe Ser Ser Ala Gln Thr Glu Lys Ile Glu Val Pro Lys Thr
 35 40 45
 Val Asp Cys Leu Gln Gly Leu Leu Asn Val Ile Pro Leu Gln Leu Ile
 50 55 60
 Ala Tyr Trp Leu Ala Val Gly Glu Gly Leu Asn Val Asp Phe Pro Arg
 65 70 75 80
 Asn Leu Ala Lys Ser Val Thr Val Glu
 85

<210> 32011
 <211> 141
 <212> PRT
 <213> A.fumigatus

<400> 32011
 Ser Glu Ile Phe Thr Arg Ile Tyr Thr Ala Ser Gln Leu Gln Ala Ala
 1 5 10 15
 Lys Gly Ser Ser Ser Ala Gly Gly Ile Ser Ala Thr Asp Leu Leu Ser
 20 25 30
 Ser Ser Thr Ala Asp Leu Ser Lys Thr Ser Pro Thr Ser Thr Ala Ala
 35 40 45
 Lys Pro Phe Asp Ala Ile Ile Ala Ile Gly Val Leu Ile Lys Gly Glu
 50 55 60
 Thr Met His Phe Glu Tyr Ile Ala Asp Ala Val Ser His Gly Leu Met
 65 70 75 80
 Arg Val Gln Leu Asp Thr Gly Val Pro Val Ile Phe Gly Val Leu Thr
 85 90 95
 Val Leu Thr Glu Glu Gln Gly Leu Glu Arg Ala Gly Leu Gly Lys Lys
 100 105 110
 Gly Met His Asn His Gly Glu Asp Trp Gly Lys Ala Ala Val Glu Leu
 115 120 125
 Gly Leu Lys Arg Arg Asp Trp Val Glu Gly Lys Ile Val
 130 135 140

<210> 32012
 <211> 84
 <212> PRT
 <213> A.fumigatus

<400> 32012
 Ser Leu Thr Ala Gly Thr Arg Ser Arg Ser Gly Ser Tyr Leu Thr Ile
 1 5 10 15
 Asn Ser Lys Phe Gly Ile Arg Ile Pro Thr Ser Asp Asn Ser Cys Asn
 20 25 30
 Pro Lys Trp Ser Tyr Thr Gly Ile Glu Ser Val Ser Leu Asp Ile Thr
 35 40 45
 Ala Lys Thr Ile Gly Gln Gly Gly Asp Arg Asp Gly Ser Leu Glu Tyr
 50 55 60
 Ala Ser Pro Arg Gly Ser Phe Val Ser Ser Ser Arg His Glu Val Thr
 65 70 75 80
 Thr Val Trp Asp

<210> 32013
 <211> 67
 <212> PRT
 <213> A.fumigatus

<400> 32013
 Arg Val Cys Leu Cys Phe Ile Ser Leu Ser Lys Gly Ser Gly Leu Arg
 1 5 10 15
 Val Ala Ile Val His Ala Arg Trp Asn Met Ala Ile Ile Gln Pro Leu
 20 25 30
 Val Glu Gly Ala Lys Lys Ser Leu Leu Ala Ala Gly Val Leu Glu Glu

12474

35 40 45
 Asp Ile Thr Leu Glu Thr Val Pro Gly Ser Tyr Glu Leu Pro Phe Ala
 50 55 60
 Ala Gln Arg
 65

<210> 32014
 <211> 493
 <212> PRT
 <213> A.fumigatus

<400> 32014
 Thr Pro Lys Lys Thr Arg Val Leu Pro Phe Arg Asp Gly Phe Asp Asp
 1 5 10 15
 Asp Glu Ile Met Ala Ile Ser Pro Ser Lys Ser Ala Lys Ser Lys Arg
 20 25 30
 Thr Thr Pro Thr Gly Pro Gly Lys Lys Arg Lys Leu Asp Ser Gly
 35 40 45
 Ser Pro Thr Pro Leu Pro Leu Cys Gln Pro Ala Glu Leu Val Pro Glu
 50 55 60
 Pro Pro Glu Asp Leu Phe Asp Glu Glu Met Met Asp Asp Val Met Val
 65 70 75 80
 Asp Glu Pro Val Pro Arg Arg Glu Asp Arg Asn Ala Glu Leu Met Lys
 85 90 95
 Ser Ile Leu Asn His Lys Thr Tyr Pro Asn Glu Glu Cys Asp Ile Glu
 100 105 110
 Val Leu Ser Gln Met Ala Phe Pro Ser Glu Pro Arg Arg Lys Leu Ser
 115 120 125
 Thr Ile Val Leu Glu Glu Thr Ala Arg Leu His Ser Gly Asn Tyr Val
 130 135 140
 Val Glu Tyr Ala Gln Val Ile Ala Ser Leu Trp Ser Arg Ala Leu Lys
 145 150 155 160
 Glu Lys Phe Phe Lys Pro Val Pro Met Phe Met Glu Ile Thr His His
 165 170 175
 Leu Leu Ala Leu Asp Ala Pro Ser Cys Val Pro Asp Met Ile Asp His
 180 185 190
 Leu Val Pro Val Leu Gln Glu Ser Gly Asp Ile Asn Gly Ile Pro Arg
 195 200 205
 Phe Arg Asn Ser Pro Val Ser Arg Gln Asn Leu Gly Gln Val Arg Gln
 210 215 220
 Thr Pro Leu Ser Gln Leu Glu Val Leu Val Asp Ser Thr Glu Ala Leu
 225 230 235 240
 Ser Leu Leu Tyr Arg Met Ala Tyr Leu Cys Ile His Met Glu Arg Thr
 245 250 255
 Met Glu Arg Phe Trp Arg His Met Arg Tyr Asp Phe Val Leu Met Met
 260 265 270
 Leu Asn Cys Ser Gln Pro Ile Arg Asp Ile Thr Leu Met Leu Asn Leu
 275 280 285
 Leu Ser Thr Ser Ile Arg Ala Glu Ser Phe Gly Ser Val Gln Glu Thr
 290 295 300
 Gln Gln Asp Gln Leu Ala Asn Glu Asn Tyr Ile Val Asp Arg Val Ala
 305 310 315 320
 Asn Leu Leu Ser Glu Thr Pro Gln Pro Asp Glu Gly Gln Pro Pro Tyr
 325 330 335
 Thr Ala Ala Asp Ile Cys Ser Met Arg Leu Gln Ala Met Tyr Phe Leu
 340 345 350

12475

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Thr Ser Val Ala Phe Asn Pro Val Ala Pro Ala Ser Glu His Gly Ser
      355                      360                      365
Ser Val Ile Ala Gln His Pro Thr Val Leu Ala Arg Met Ile Arg Ala
      370                      375                      380
Met His Asp Glu Leu Asp Ala Leu Tyr Thr Tyr Pro Pro Glu Arg Asp
385                      390                      395                      400
Leu His Ala Thr Met Val Asn Gly Leu Met Arg Leu Val Tyr Gly Val
      405                      410                      415
Ile Arg Arg His Lys Asn Val Asp Leu Gln Ser Lys Leu Cys Arg Val
      420                      425                      430
Ala Gly Gly Lys Gln Lys Phe Leu Val Val Leu Thr Arg Leu Ala Phe
      435                      440                      445
Ser Glu Gly Pro Ile Leu Glu Gly Gly Ile Asp Asp Glu Thr Val Glu
      450                      455                      460
Met Ala His Glu Ile Leu Asp Asp Ala Val Thr Pro Gln Glu Ala Glu
465                      470                      475                      480
Ala Leu Leu Glu Ala Phe Pro Ser Ala Lys Arg Asp Asp
      485                      490

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<210> 32015
 <211> 173
 <212> PRT
 <213> A.fumigatus

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<400> 32015
Trp Val Met Glu Asp Lys Asp Asp Asp Phe Phe Ser Asp Asp Gly Leu
1      5      10      15
Glu Asp Leu Pro Pro Ser Thr Leu Leu Gln Leu Glu Gln Asn Ala Tyr
      20      25      30
Leu Ala Thr Gln Ala Gln Lys Pro Ala Gln Ser Glu Ala Ser Ile His
      35      40      45
Thr Ala Pro Thr Ser His Ala Gln Val Asp Arg Gln Phe Ala Val Ala
      50      55      60
Glu Ser Arg Ser Ile Pro Ile Asn Ala Thr Leu Lys Pro Pro Ala Arg
65      70      75      80
Leu His Thr Gly Leu Thr Asn Asp Tyr Asp Ser Leu Asp Val Gly Glu
      85      90      95
Phe Asp Ala Glu Val Leu Asp Gly Asp Ser Gly Phe Pro Val Ala Leu
      100     105     110
Asp Gln Pro Pro Ala Ser Ala Gly Gln Ala Val Pro Leu Arg Asn Glu
      115     120     125
Ser Ala Leu Glu Pro Met Asp Ile Glu Glu Gly Arg Gly Asn Pro Tyr
      130     135     140
Gln Ala Asn Ile Tyr Glu Ala Tyr Asn Ala Leu Glu Glu Lys Val Ser
145     150     155     160
Val Val Glu Ala Tyr Thr Thr Ala Gly Phe Trp Leu Met
      165     170

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<210> 32016
 <211> 162
 <212> PRT
 <213> A.fumigatus

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<400> 32016
Cys Tyr Arg Arg Trp Ser Leu Thr Tyr Trp Thr Ser Ser Asp Asp Arg
1      5      10      15

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12476

Val Arg Gly Gly Ser Ser Tyr Ser Thr Leu Thr Ile Leu Pro Asn Asn
 20 25 30
 Thr Val Gln Phe His Gly His Leu Asp Ile Thr Thr Leu Gly Arg Ala
 35 40 45
 Gly Phe Thr Ser Gln Arg Thr Thr Asp Asp Met Ser Trp Asp Leu Ser
 50 55 60
 Asp Ala Asp Gly Leu Glu Leu Asp Val Ala Gly Ser Asp Gly Lys Val
 65 70 75 80
 Tyr Thr Leu Val Val Lys Asp Arg Leu Leu Pro Thr Arg Ala Asp Gly
 85 90 95
 Arg Glu Gln Ser Thr Ile Ser Trp Glu Tyr Asp Phe Gln Thr Val Glu
 100 105 110
 Arg Ala Ile Val Arg Val Arg Trp Glu Asp Leu Arg Ala Ser Tyr Arg
 115 120 125
 Gly Arg Lys Val Asp Ala Glu Pro Leu Asp Leu Arg Asn Val Lys Arg
 130 135 140
 Ile Ser Ile Met Val Arg Arg Tyr Val Phe Ile Leu Gln Arg Lys Ser
 145 150 155 160
 Arg Tyr

<210> 32017
 <211> 92
 <212> PRT
 <213> A.fumigatus

<400> 32017
 Val Thr Leu Leu Arg Ser Asp Ile Ala Asn Val Ile Asp Asp Gly Pro
 1 5 10 15
 Ser His Thr Gly Pro Pro Pro Thr Thr Ala Ser Gly Ala Val Pro Arg
 20 25 30
 Ile Pro Pro Ser Pro Phe Ser Gln Thr Thr Gln Ser Asn Ser Thr Asp
 35 40 45
 Ile Trp Thr Leu Pro Pro Ser Ala Glu Gln Gly Leu Pro Pro Ser Ala
 50 55 60
 Gln Gln Met Ile Cys Pro Gly Thr Tyr Pro Thr Pro Thr Gly Ser Ser
 65 70 75 80
 Trp Thr Ser Pro Val Arg Met Gly Lys Cys Thr Leu
 85 90

<210> 32018
 <211> 80
 <212> PRT
 <213> A.fumigatus

<400> 32018
 Trp Leu Arg Thr Leu Leu Ile Gln Met Leu Pro Cys Tyr Ala Arg Lys
 1 5 10 15
 Arg Ser Val Ser Cys Leu Arg Lys Tyr Thr Lys Phe Ile Met Ile Met
 20 25 30
 Thr Tyr Cys Arg Ser Thr Asn Met Leu Asp Arg Arg Met Met Ser Trp
 35 40 45
 Ile Ser Ala Lys Val Ile Leu Leu Ile Leu Gly Ser Ile Gly Val Trp
 50 55 60
 Ser Val Ser Gly Gly Gln Ala Trp Ile Gly Tyr Tyr Pro Val Trp Ser
 65 70 75 80

<210> 32019
 <211> 93
 <212> PRT
 <213> A.fumigatus

<400> 32019
 Leu Ser Glu Tyr Ser Ala Gly Arg Arg Phe Leu Cys Cys Val His Ile
 1 5 10 15
 Ile Pro Asp Ser Arg Ile His Gly Trp Ser Leu Lys Cys Arg Phe Asn
 20 25 30
 Asn Ser Leu Asp Thr Ser Gly Glu Ile Tyr Tyr Phe Tyr Tyr Trp
 35 40 45
 Lys Val Ser Thr Ser Ile Ile Gly Asn Val Ile Ala Thr Ala Pro Pro
 50 55 60
 Pro Val Glu Leu Val Tyr Met Lys Gly Ser Leu Leu Tyr His Asn Ser
 65 70 75 80
 His Ser Ile Leu Phe Pro Cys Ser Leu Pro Leu Gln Ala
 85 90

<210> 32020
 <211> 184
 <212> PRT
 <213> A.fumigatus

<400> 32020
 Ser Arg Asp Arg Pro Cys Pro Ala Glu Asp Ala Ile Met Pro Ala Ile
 1 5 10 15
 His Gly Asp Leu Leu Ala Ala Val Ile Pro Thr Asp Arg Asp Ile Pro
 20 25 30
 Val Asn Ile Thr Pro Arg Gln Val Thr Leu Arg Asp Arg Val Thr Val
 35 40 45
 Ala Thr Leu Val Pro Ile Ser Ser Ala Asp Asp Val Pro Pro Ser Leu
 50 55 60
 Met Arg Tyr Leu Ser Asp Gln Leu Asn Lys Glu Ile Ala Lys Gly Asp
 65 70 75 80
 Thr Tyr Ala Met Val Asp Pro Ile Pro Leu Glu Gln Phe Ala Thr Tyr
 85 90 95
 Trp Phe Phe Asn Phe Gly Ala Ile Met Leu Leu Gly Asp Ile Lys Ser
 100 105 110
 Val Tyr Glu Met Lys Ala Met Glu Arg Ala Gly Ala Asp Trp Thr Lys
 115 120 125
 Thr Cys Leu Gly Ser Phe Asn Ile Arg Pro Asn Tyr Pro Gly Arg Ser
 130 135 140
 Ser His Val Cys Asn Gly Met Phe Leu Val Thr Asp Ala Ala Arg Asn
 145 150 155 160
 Arg Gly Val Gly Arg Leu Met Gly Glu Gly Tyr Leu Glu Trp Ala Pro
 165 170 175
 Lys Leu Val Ser Met Ile Ser Thr
 180

<210> 32021
 <211> 371
 <212> PRT
 <213> A.fumigatus

<400> 32021

Gln Gly Tyr Thr Tyr Ala Val Phe Asn Leu Val Tyr Glu Ser Asn Val
 1 5 10 15
 Ala Ser Cys Arg Ile Trp Asp Ala Leu Gly Phe Lys Arg Ile Gly Lys
 20 25 30
 Val Pro Asn Ala Gly Lys Val Leu Ser Ser Pro Gly Glu Tyr Val Asp
 35 40 45
 Ala Ile Ile Tyr Gly Arg Asp Leu Ser Ser Glu Gly Asp Asp Ser Phe
 50 55 60
 Thr Gln Asp Arg Phe Asp Lys Ile Arg Tyr Tyr Leu Lys His Ser Lys
 65 70 75 80
 Tyr Pro Arg Gly Ala Asp Arg Ala Glu Lys Ser Arg Leu Arg Ser Ala
 85 90 95
 Ala Thr His Tyr Lys Leu Ile Glu Gly Lys Asp Gly Asp Ser Asp Lys
 100 105 110
 Leu Met Leu Lys Asp Lys Glu Val Ser Asp Pro Gln Gln Gln Tyr
 115 120 125
 Glu Ile Ala Arg Thr Ile His Leu Lys Gln His Ala Gly Ile Asn Lys
 130 135 140
 Thr Thr Ala Ala Ile Ala Val Lys Tyr His Trp Val Arg Ile Lys Glu
 145 150 155 160
 Thr Val Ser Arg Val Ile Arg Asp Cys Pro Gln Cys Lys Glu Thr Leu
 165 170 175
 Lys Leu Pro Pro Ser Asn Gly Met Leu Ile His Asp Gly Ala Val Thr
 180 185 190
 Met Glu Lys Leu Ser Ala Asn Glu Asn Glu Thr Ser Leu Ser Thr Arg
 195 200 205
 Ser Thr Met Glu Thr Pro Gln Leu Met Asp Asn Asn Ser Leu Asp Pro
 210 215 220
 His Gln Ser His Asn Pro Phe Ala Gln Thr His Pro Gln Val Ile Gln
 225 230 235 240
 Gly Pro Val Asp Ser Ile Thr Asp Tyr Thr Thr Leu Pro Leu Asp Pro
 245 250 255
 Gln Ile Ile Asp Ile Asn Gln Gln Leu Ser Arg Phe His Ser His Asp
 260 265 270
 Gly Met Ser His His Pro His Asp Gly Leu Gly His His Pro His Asp
 275 280 285
 Gly Ile Pro Asp Pro Tyr Thr His Gly His His Ser Leu Ser His Ser
 290 295 300
 Asn Phe Glu Asp Ala Val Arg His His Thr Ala His Asp Tyr His Met
 305 310 315 320
 Met Val Glu Asp Ala Ser Asp Ser Asp Ala Ala Val Leu Arg Gln Glu
 325 330 335
 Ala Leu Gly Leu Val Pro Pro Gln Val His Glu Val His His Asp His
 340 345 350
 Asp Leu Leu Ser Lys Tyr Glu Tyr Val Gly Pro Pro Asp Asp Glu Leu
 355 360 365
 Asp Phe Ser
 370

<210> 32022

<211> 148

<212> PRT

<213> A.fumigatus

<400> 32022

12479

Arg Ser Leu Ala Ser Pro Asn Gly Trp Ser Tyr Asp Asp Pro Asn Val
 1 5 10 15
 Ser Thr Asp Ser Leu Arg Arg Tyr Thr Leu His Asp Pro Gly Ile Thr
 20 25 30
 Ala Phe Ala Pro Pro Tyr Pro Glu Ser Glu Ala Ala Asp Val Arg Ser
 35 40 45
 Ala Arg Met Ser Gly Tyr Ser Gly Ile Glu Met Asp Ala Trp Gln Arg
 50 55 60
 Arg Gln Gly Val Lys Pro Ser Ala Leu Arg Arg Tyr Gly Thr Arg Lys
 65 70 75 80
 Ile Asn Leu Val Gln Gly Ser Val Leu Ser Val Asp Tyr Pro Val Pro
 85 90 95
 Ser Ala Ile Gln Asn Ala Ile Gln Ala Glu Tyr Arg Asp Ala Glu Glu
 100 105 110
 Ala Phe His Glu Glu Phe Thr His Met Arg Cys Lys Tyr Ser Cys Arg
 115 120 125
 Ile Ala Ile Ala Tyr Ser Arg Leu Arg Arg Ser Arg Tyr Cys Arg His
 130 135 140
 Leu Arg Pro Arg
 145

<210> 32023

<211> 138

<212> PRT

<213> A.fumigatus

<400> 32023

Gly Gly Leu Asp Thr Ala Ala Thr Cys Asp Pro Asp Glu Phe Thr Leu
 1 5 10 15
 Arg Asn Gly Tyr Asn Leu Arg Pro Ala Met Tyr Asn Arg His Thr Glu
 20 25 30
 Leu Leu Ile Ala Ile Thr Tyr Tyr Asn Glu Asp Lys Val Leu Thr Ala
 35 40 45
 Arg Thr Leu His Gly Val Met Gln Asn Val Arg Asp Ile Val Asn Leu
 50 55 60
 Lys Lys Ser Glu Phe Trp Asn Lys Gly Gly Pro Ala Trp Gln Lys Ile
 65 70 75 80
 Val Val Cys Leu Val Phe Asp Gly Ile Glu Pro Cys Asp Lys Asn Thr
 85 90 95
 Leu Asp Val Leu Ala Thr Ile Gly Val Tyr Gln Asp Gly Val Met Lys
 100 105 110
 Lys Asp Val Asp Gly Arg Glu Thr Val Ala His Ile Val Ser Asp Thr
 115 120 125
 Arg Gln Arg Val Pro Phe Glu Lys His His
 130 135

<210> 32024

<211> 344

<212> PRT

<213> A.fumigatus

<400> 32024

Phe Glu Tyr Thr Thr Gln Leu Ser Val Thr Pro Thr Gln Gln Leu Val
 1 5 10 15
 Arg Pro Gln Pro Asn Asp Pro Ser Asn Leu Pro Pro Val Gln Met Leu
 20 25 30

Phe Cys Leu Lys Gln Lys Asn Ser Lys Lys Ile Asn Ser His Arg Trp
 35 40 45
 Leu Phe Asn Ala Phe Ser Arg Ile Leu Asn Pro Glu Ile Cys Ile Leu
 50 55 60
 Leu Asp Ala Gly Thr Lys Pro Gly Ser Lys Ser Leu Leu Ala Leu Trp
 65 70 75 80
 Glu Ala Phe Tyr Asn Asp Lys Thr Leu Gly Gly Ala Cys Gly Glu Ile
 85 90 95
 His Ala Met Leu Gly Arg Gly Trp Arg Asn Val Leu Asn Pro Leu Val
 100 105 110
 Ala Ala Gln Asn Phe Glu Tyr Lys Ile Ser Asn Ile Leu Asp Lys Pro
 115 120 125
 Leu Glu Ser Ala Phe Gly Tyr Val Ser Val Leu Pro Gly Ala Phe Ser
 130 135 140
 Ala Tyr Arg Tyr Arg Ala Ile Met Gly Arg Pro Leu Glu Gln Tyr Phe
 145 150 155 160
 His Gly Asp His Thr Leu Ser Lys Arg Leu Gly Lys Lys Gly Ile Glu
 165 170 175
 Gly Met Asn Ile Phe Lys Lys Asn Met Phe Leu Ala Glu Asp Arg Ile
 180 185 190
 Leu Cys Phe Glu Leu Val Ala Lys Ala Gly Tyr Lys Trp His Leu Thr
 195 200 205
 Tyr Val Lys Ala Ser Lys Gly Glu Thr Asp Val Pro Glu Ala Ala Pro
 210 215 220
 Glu Tyr Ile Ser Gln Arg Arg Arg Trp Leu Asn Gly Ser Phe Ala Ala
 225 230 235 240
 Ser Leu Tyr Ser Ile Met His Phe Gly Arg Ile Tyr Lys Ser Gly His
 245 250 255
 Ser Phe Val Arg Met Phe Phe Leu His Ile Gln Met Ile Tyr Asn Cys
 260 265 270
 Cys Gln Leu Ile Met Thr Trp Phe Ser Leu Ala Ser Tyr Trp Leu Thr
 275 280 285
 Ser Ser Val Ile Met Asp Leu Val Gly Thr Pro Ser Ser His Asn Lys
 290 295 300
 Tyr Lys Ala Trp Pro Phe Gly Asn Asp Ala Ser Pro Ile Val Asn Phe
 305 310 315 320
 Phe Val Lys Tyr Gly Tyr Leu Leu Val Leu Met Leu Gln Phe Val Leu
 325 330 335
 Ala Leu Gly Asn Arg Pro Lys Gly
 340

<210> 32025

<211> 240

<212> PRT

<213> A.fumigatus

<400> 32025

Ala Asp Gly Ile Ser Cys Pro Arg Arg Lys Thr Ala Asp Thr Asn Arg
 1 5 10 15
 Thr Lys Leu Ala Tyr Thr Met Ser Phe Leu Trp Phe Ser Leu Val Gln
 20 25 30
 Phe Tyr Val Leu Ile Leu Ser Phe Tyr Leu Val Ala Asn Ala Phe Met
 35 40 45
 Gly Gly Met Ile Asp Phe Asp Phe Asp Gln Gly Val Gly Asn Phe Leu
 50 55 60
 Ser Ser Phe Phe Ser Ser Thr Gly Gly Gly Ile Val Leu Ile Ala Leu

12481

65		70		75		80									
Val	Ser	Thr	Tyr	Gly	Ile	Tyr	Ile	Val	Ala	Ser	Ile	Leu	Tyr	Met	Asp
				85					90					95	
Pro	Trp	His	Ile	Leu	Thr	Ser	Ser	Trp	Ala	Tyr	Phe	Leu	Gly	Met	Thr
			100					105					110		
Thr	Ser	Ile	Asn	Ile	Leu	Met	Val	Tyr	Ala	Phe	Cys	Asn	Trp	His	Asp
		115					120					125			
Val	Ser	Trp	Gly	Thr	Lys	Gly	Ser	Asp	Lys	Ala	Asp	Ala	Leu	Pro	Ser
		130				135					140				
Ala	Gln	Thr	Lys	Lys	Ala	Asp	Gly	Ser	Lys	Asn	Asn	Phe	Ile	Glu	Glu
145					150					155				160	
Ile	Asp	Lys	Pro	Gln	Ala	Asp	Ile	Asp	Ser	Gln	Phe	Glu	Ala	Thr	Val
			165					170						175	
Lys	Arg	Ala	Leu	Ala	Pro	Tyr	Gln	Glu	Pro	Lys	Glu	Asp	Ser	Thr	Ile
		180						185					190		
Ser	Leu	Asp	Asp	Ser	Tyr	Arg	Asn	Phe	Arg	Thr	Ser	Leu	Val	Leu	Leu
		195					200					205			
Trp	Ile	Leu	Ser	Asn	Leu	Leu	Val	Ser	Leu	Leu	Ile	Thr	Ser	Asp	Gly
	210					215					220				
Ile	Arg	Lys	Met	Cys	Leu	Thr	Val	Arg	Leu	Gly	Ser	Pro	Gly	Cys	Ala
225					230				235					240	

<210> 32026

<211> 694

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (642), (667), (677)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32026

Gln	Val	Leu	Asp	Ser	Glu	Asp	Lys	Gly	Gln	Leu	Gln	Ala	Ile	Val	Arg
1			5					10					15		
Thr	Leu	Gly	Leu	Ala	Arg	Arg	Leu	Tyr	Phe	Ala	Pro	Phe	Val	Glu	Tyr
		20					25					30			
Leu	Leu	Pro	Leu	Leu	Asn	His	Ala	Asp	Gln	Glu	Arg	Glu	Leu	Arg	Ala
		35				40					45				
Met	Ala	Tyr	Thr	Phe	Gln	Met	Val	Val	Gly	Tyr	Ala	Leu	Pro	Trp	Thr
	50					55				60					
Arg	Val	Ser	Glu	Leu	Leu	Phe	Arg	Glu	Leu	Thr	Arg	Asp	Ala	Leu	Ile
65					70				75					80	
Val	Leu	Gly	Ile	Asp	Ala	Leu	Asp	Glu	Glu	Ala	Asn	Phe	Glu	Asp	Ser
			85					90					95		
Val	Ser	Val	Asp	Asn	Met	Glu	Val	Asp	Arg	Gln	Phe	Ser	Val	Ser	Tyr
		100					105						110		
Gln	Asp	Trp	Arg	Glu	Glu	Pro	Ser	Ala	Glu	Val	Arg	Met	Gln	Met	Met
		115				120					125				
Ala	Glu	Tyr	Glu	Asp	Val	Arg	Val	Val	Ala	Thr	Arg	Glu	Arg	Leu	Leu
	130					135					140				
Ser	Leu	Leu	Arg	Ser	Leu	Gln	Leu	Val	Gly	Leu	Gly	Gly	Asp	Lys	Ala
145					150					155				160	
Gln	Lys	Val	Phe	Ala	Ser	Val	Met	Asp	Met	Met	Leu	Thr	Val	Phe	Ile
			165					170					175		
Glu	Ser	Ala	Tyr	Ala	Asn	Gln	Trp	Glu	Gly	Pro	Ser	Leu	Val	Ser	Gln

	180		185		190
His	Leu Arg Gln Trp Ile Glu Asn Val Phe Ala Arg Leu Val Val Gln				
	195		200		205
Val	Leu Ala Ile Ile Asn His Asp Glu Thr Gly Ala Asn Ala Ser Gly				
	210		215		220
Arg	Leu Asp Val Ser Leu Val Asp Val Glu Arg Trp Gln Glu Met Gly				
225		230		235	240
Ile	Ser Arg Leu Gly Ser Leu Arg Thr Arg Glu Leu Phe Asp Ile Ile				
	245		250		255
Val	Glu Trp Pro Ala Ser Ser Gly Ala Ile Glu Asp Leu Arg Gln Phe				
	260		265		270
Trp	Thr His Pro Pro Ala Arg Tyr Cys Leu Thr Gln Ala Phe Ile Lys				
	275		280		285
Val	Leu Asn Gln Arg Leu Leu His Pro Gly Ala Ser Thr Ile Asp Ile				
	290		295		300
Leu	Arg Val Tyr Ile Ser Ile Ile Arg Ala Phe Asn Leu Ile Asp Pro				
305		310		315	320
Lys	Gly Val Leu Leu Asp Arg Val Ala Arg Pro Ile Arg Arg Tyr Leu				
	325		330		335
Arg	Asp Arg Asp Asp Thr Val Lys Val Ile Val Gly Gly Leu Leu Ala				
	340		345		350
Asp	Pro Ala Asp Thr Asp Glu Ser Asn Leu Pro Ser Thr Gly Glu Thr				
	355		360		365
Leu	Ser Glu Leu Ser Ala Glu Leu Ala Lys Ala His Gln Asn Ser Leu				
	370		375		380
Arg	Ala Asp Ser Gly Glu Leu Asp Trp Asp Asp Met Asn Trp Met Pro				
385		390		395	400
Asp	Pro Val Asp Ala Ala Pro Asp Tyr Lys Lys Ser Lys Ser Ser Asp				
	405		410		415
Val	Ile Gly Ser Leu Ile Ser Leu Phe Glu Ser Lys Glu Thr Phe Val				
	420		425		430
Arg	Glu Met Gln Asn Met Leu Ala Glu Arg Leu Leu Gln Lys Arg Ala				
	435		440		445
Glu	Phe Glu Gln Glu Thr Ser Val Leu Glu Leu Leu Lys Val Arg Phe				
	450		455		460
Gly	Asp Asn Ser Leu Gln Ala Cys Glu Val Met Leu Arg Asp Ile Phe				
465		470		475	480
Asp	Ser Arg Arg Val Asp Ala Val Val Arg Asn Asp Gln Gly Leu Val				
	485		490		495
Gln	Ser Glu Asp Asp Thr Arg Pro Glu Leu His Ala Lys Ile Leu Ser				
	500		505		510
His	Phe Phe Trp Pro Glu Phe Pro Ala Gln Gln Phe Lys Val Pro Pro				
	515		520		525
Glu	Ile Ala Ala Leu Gln Glu Arg Tyr Ala Thr Gly Phe Gly Ser Leu				
	530		535		540
Lys	Gln Ser Arg Lys Leu Thr Trp Leu Asn Gly Met Gly Gln Val Thr				
545		550		555	560
Val	Glu Leu Asp Leu Glu Asp Arg Val Phe Val Asp Glu Val Thr Thr				
	565		570		575
Trp	Gln Ala Thr Val Ile Tyr Ala Phe Gly Ser Glu Glu Gly Ala Thr				
	580		585		590
Lys	Thr Val Asp Gly Leu Ser Ala Glu Leu Gly Met Ser Thr Ala Leu				
	595		600		605
Val	Arg Ser Ala Cys Leu Phe Trp Val Ser Lys Arg Ile Leu Ser Glu				
	610		615		620
Leu	Gln Arg Asn Thr Phe Arg Val Leu Glu Val Leu Pro Asn Asp Asp				

12483

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625          630          635          640
Asp Xaa Gly Ala Val Gly Pro Ala Gly Val Ser Ala Met Glu Ser Gly
          645          650          655
Pro Ala Asn Ala Ala Ala Ala Ala Asp Ser Xaa Ala Ala Ala Ala Ala
          660          665          670
Lys Glu Thr Ala Xaa Ala Ala Ala Met Glu Asn Met Thr Cys Thr Gly
          675          680          685
His Ser Pro Leu Ala Cys
          690

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<210> 32027

<211> 408

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (131)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32027

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Gly Leu Leu Tyr Leu Leu Ser Pro Val Thr Phe Thr Leu Leu Thr Arg
1          5          10          15
Tyr Pro Arg Leu Gln Gly Trp Cys Ile Pro Thr Gly Leu Cys Ile Thr
          20          25          30
Val Ile Gly Ser Leu Leu Ser Ser Ile Ser Thr His Val Trp His Leu
          35          40          45
Ile Ala Thr Gln Gly Ile Met Cys Ala Ile Gly Asn Ala Leu Met Phe
          50          55          60
Ser Pro Ser Ser Leu Tyr Met Asp Gln Trp Phe Ile His Lys Lys Gly
65          70          75          80
Leu Ala Leu Gly Ile Met Trp Ala Ala Lys Ser Val Thr Gly Val Val
          85          90          95
Leu Pro Phe Ala Ala Asn Phe Cys Leu His His Phe Gly Ser Ser Thr
          100          105          110
Thr Phe Arg Val Arg Thr Val Thr Thr Val Trp Ser Pro Gly Ser Leu
          115          120          125
Leu Arg Xaa Val Ala Asn Leu Cys Arg Gly Thr Asn Leu Gly Gly Val
          130          135          140
Cys Arg Cys Pro Asn Ala Ser Ser Thr Asn Thr Glu Ser Gln Leu Leu
145          150          155          160
Thr Thr Leu Gly Ser Leu Pro Phe Met Lys Pro Arg Ile Pro Val Ser
          165          170          175
Pro Ser Ala Ser Ala Arg Arg Leu Asp Leu Gly Phe Leu Arg Leu Ala
          180          185          190
Ala Phe Trp Thr Leu Gln Ala Gly Asn Ile Ile Gln Ser Phe Gly Tyr
          195          200          205
Phe Leu Pro Ser Thr Tyr Leu Pro Ser Tyr Ser Thr Ala Thr Val Gly
210          215          220
Leu Ser Arg Thr Met Gly Thr Met Leu Val Ser Leu Phe Asn Ala Thr
225          230          235          240
Ser Ile Val Gly Gly Ile Cys Met Gly Met Leu Cys Asp Arg Phe Ala
          245          250          255
Val Ser Asn Ile Leu Leu Leu Ser Ser Met Gly Ser Ala Leu Ser Val
          260          265          270
Phe Leu Leu Trp Gly Met Ala Ser Ser Pro Gly Ser Asp Ser Pro Arg

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275 280 285
 Thr Gly Ile Ala Leu Leu Thr Leu Phe Ser Ile Phe Tyr Gly Phe Phe
 290 295 300
 Ala Gly Gly Phe Ser Ser Thr Trp Ser Gly Val Ile Lys Gln Ile Lys
 305 310 315 320
 Arg Asp Ser Ser Thr Ser Leu Glu Thr Gly Leu Val Phe Gly Leu Leu
 325 330 335
 Ala Gly Gly Arg Gly Ile Gly Asn Val Ile Ser Gly Pro Leu Ser Thr
 340 345 350
 Ala Leu Ile Lys Gln Gly Ser Leu Gly Gly Ser Gln Thr Ser Asn Ala
 355 360 365
 Gly Thr Gly Phe Ser Thr Gln Tyr Gly Thr Leu Ile Leu Phe Thr Gly
 370 375 380
 Ile Thr Ala Ala Leu Gly Ala Trp Ser Ser Met Trp Gly Tyr Ile Ser
 385 390 395 400
 Ser Ser Val Arg Cys Val Ser Arg
 405

<210> 32028

<211> 67

<212> PRT

<213> A.fumigatus

<400> 32028

Gly Leu Val Phe Leu Ile Gln His Leu Gln Ser Arg Ser Lys Leu Asp
 1 5 10 15
 Leu Gln Arg Ala Asn Pro Ser Asp Cys Val Val Leu Met Arg Glu Pro
 20 25 30
 Leu Leu Leu Tyr Leu Cys Ala Ile Leu Gly Leu Ile Ile Ser Pro Leu
 35 40 45
 Ser Phe Tyr Leu Thr Ile Leu Arg Val Val Asp Thr Phe Glu His Val
 50 55 60
 Gly Phe Tyr
 65

<210> 32029

<211> 611

<212> PRT

<213> A.fumigatus

<400> 32029

Ile Ile Pro Ser Met Pro Ser Ile Ser Leu Thr Ala Lys Asp Arg Leu
 1 5 10 15
 Arg Arg Ser Gln Ser Ala Arg Ser Met Arg Arg Ser Arg Gln Ser Ser
 20 25 30
 Leu Pro Ser Glu Leu Phe Asp Pro Ser Ile Ala Arg Gln His Ala Ala
 35 40 45
 Val Ala Ala Thr Arg Ala Met Leu Arg Ser Ser Asp Arg Ser Ser Ala
 50 55 60
 Asp Ser Lys His Ser Tyr Asp Cys Leu Gly Gly Pro Glu Asn Met Ala
 65 70 75 80
 Val Pro Ser Lys Arg Leu Thr Arg Pro Pro Arg His Thr Gln Ala Pro
 85 90 95
 Thr Thr Asp Pro Ser Val Glu Asp Ala Ser Pro Ser Arg Arg Ser Ile
 100 105 110
 Ala Ser Tyr Ile Glu Asn Cys Asp Asp Asp Leu Thr Phe Ser Ala Ala

12486

565 570 575
 Tyr Ser Arg Thr Thr Ser Gly Ser Ser Pro Glu Arg Lys Asp Gln Ala
 580 585 590
 Ile Asp Leu Tyr Ser Arg Leu His His Gly Ala Gly Arg Ile Arg Gly
 595 600 605
 Ser Ala Phe
 610

<210> 32030
 <211> 230
 <212> PRT
 <213> A.fumigatus

<400> 32030
 Ala Ala Ile Arg Cys Thr Leu Ser Val Gly Glu Ile Gly Val Pro Arg
 1 5 10 15
 Arg Tyr Lys Tyr Lys Pro Arg Val Leu Pro Gly Leu Gly Pro Ile Ser
 20 25 30
 Tyr Ser Trp Asp Ile Arg Glu Gly His His His Ile Cys Leu Tyr Ile
 35 40 45
 Cys Ser Cys Ser Arg Leu Arg Arg Ser Ile Ser Pro Asn Arg Gly Arg
 50 55 60
 Cys Tyr Ser Leu Thr Phe Phe Leu Ala Arg Thr Val Ser Ser Thr Asn
 65 70 75 80
 Met Thr Ser Gln Gln Lys Tyr Thr Pro Pro Asn Gly Ala Leu Ala Glu
 85 90 95
 Gln Phe Ser Arg Tyr Asp Gly Ser Pro Leu Ser Ala Gln Asp Leu Thr
 100 105 110
 Trp Ser Tyr Thr Ser Phe Leu Thr Ala Val Gln Ala Arg Arg His Ala
 115 120 125
 Leu Asn Pro Ser Ala Ser His Ile Gln Pro Leu Leu Ser Asn Ala Thr
 130 135 140
 Thr Ala Thr Ala Leu Pro Gln Val Cys Thr Pro Ser Ser Ala Arg Gly
 145 150 155 160
 Pro Tyr Gln Pro Val Lys Arg Ile Lys Trp Pro Arg Pro Glu Cys Leu
 165 170 175
 Ser Pro Arg Ser Thr Val Ala Val Arg Phe Asn Val Leu Ala Thr Thr
 180 185 190
 Val Ile Gly Glu Asp Ile Phe Leu Val Gly Ser Ile Pro Ala Leu Gly
 195 200 205
 Glu Trp Asp Ala Arg His Gln Ala Leu Lys Leu Glu Ala Asn Glu Tyr
 210 215 220
 Ser Ser Ile Thr Pro Leu
 225 230

<210> 32031
 <211> 168
 <212> PRT
 <213> A.fumigatus

<400> 32031
 Cys Ile Ile Ser Cys Met Gln Gln Glu Gly Val Ser Gly Gly Ser Ser
 1 5 10 15
 Leu Ser Val Leu Glu Cys Asp Arg Ser Ala Ser Arg Phe Asn Phe Pro
 20 25 30
 Tyr Phe Pro Thr Ile Ile Ile Ile Ile Ile Ile Ile Thr Val Ile

Pro	Asp	Pro	Val	Asp	Leu	Trp	Glu	Glu	Val	Arg	Gly	Ser	Ser	Phe	Phe
1				5					10					15	
Thr	Thr	Ala	Val	Gln	His	Gln	Ala	Leu	Arg	Lys	Gly	Ala	Ala	Leu	Ala
			20					25					30		
Gln	Arg	Leu	Gly	Lys	Thr	Cys	Ser	Asn	Cys	Gln	Ser	Gln	Ala	Pro	Gln
		35					40					45			
Val	Leu	Cys	Phe	Leu	Gln	Thr	Tyr	Trp	Thr	Gly	Ser	Ser	Ile	Leu	Ala
	50					55					60				

12488

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Asn Leu Tyr Ser Asp Arg Ser Gly Lys Asp Ala Asn Ser Ile Leu Gly
65          70          75          80
Ile Ile His Thr Phe Asp Pro Asn Ala Gly Cys Asp Gly Gln Thr Phe
          85          90          95
Gln Pro Cys Ser Asp Arg Ala Leu Ala Ser His Lys Glu Val Val Asp
          100         105         110
Ser Phe Arg Ser Leu Tyr Pro Ile Asn Ala Asp Ile Pro Gln Gly Gln
          115         120         125
Ala Val Ala Val Gly Arg Tyr Pro Glu Asp Val Tyr Gln Gly Gly His
          130         135         140
Pro Trp Tyr Leu Cys Thr Leu Ala Ala Ala Glu Gln Leu Tyr Asp Ala
145         150         155         160
Leu Tyr Gln Trp Glu Arg Leu Gly Ser Leu Ala Val Thr Asn Ile Ser
          165         170         175
Leu Ala Phe Phe Gln Asp Leu Val Pro Ser Ala Thr Val Gly Thr Tyr
          180         185         190
Ala Lys Asp Thr Ile Thr Phe Ala Ser Ile Ser Ala Ala Val Arg Asp
          195         200         205
Tyr Ala Asp Arg Phe Leu Arg Ile Val Val Gly Val Thr Leu
          210         215         220

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<210> 32034
 <211> 135
 <212> PRT
 <213> A.fumigatus

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<400> 32034
Pro His Ser Arg Asn Thr His Pro Arg Met Ala Pro Ser Gln Ser Asn
1          5          10          15
Ser Arg Ala Met Thr Ala Pro Pro Ser Gln Arg Lys Thr Ser Leu Gly
          20          25          30
Pro Thr His Pro Phe Ser Leu Gln Phe Lys Pro Glu Asp Met Leu Leu
          35          40          45
Ile Leu Pro His His Thr Ser Asn Leu Ser Ser Gln Thr Arg Pro Pro
          50          55          60
Pro Leu Pro Ser Pro Lys Ser Ala Pro Leu Pro Pro His Glu Gly Pro
65          70          75          80
Thr Ser Pro Leu Asn Glu Ser Ser Gly Pro Asp Gln Ser Val Ser Pro
          85          90          95
Leu Gly Val Pro Ser Pro Phe Gly Ser Met Ser Trp Arg Pro Pro Leu
          100         105         110
Leu Ala Arg Thr Ser Ser Ser Ser Gly Pro Ser Pro Arg Trp Ala Asn
          115         120         125
Gly Met Arg Gly Ile Arg Leu
          130         135

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<210> 32035
 <211> 60
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (29)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32035

```

Asp Tyr Tyr Thr Trp Thr Arg Asp Ala Ala Leu Thr Val Lys Tyr Leu
1           5           10           15
Val Gly Ser Phe Ala Ala Asp His Glu Ser Cys Ile Xaa Arg Ile Ile
          20           25           30
Glu Asp Tyr Val Glu Ser Gln Ala His Leu Gln Thr Val Ser Asn Pro
          35           40           45
Ser Gly Asn Leu Ser Ser Gly Gly Leu Gly Glu Thr
          50           55           60

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<210> 32036

<211> 136

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (4), (6)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32036

```

Thr Ser Thr Xaa Arg Xaa Ala Val Lys Thr Met Leu Thr Glu Val Ala
1           5           10           15
Thr Thr Gln Leu Ser Val Ser Pro Leu Glu Leu Thr Cys Asn Ser Ser
          20           25           30
Leu Ala Asp Lys Trp Ala Ala Asn Gly Ala Thr Phe Tyr Asn Cys Cys
          35           40           45
Gly Pro Thr Glu Val Thr Ile Ile Asn Thr Met His Arg His Gln Phe
          50           55           60
Gly Gln Gln Leu Thr Ile Gly Arg Pro Leu Pro Asn Thr Ser Val Tyr
          65           70           75           80
Ile Leu Asp Asp Lys Gln Leu Pro Val Val Ile Gly Glu Val Gly Thr
          85           90           95
Met Trp Ala Gly Gly Ala Gly Ile Thr Arg Gly Tyr Leu Gly Gln Pro
          100          105          110
Glu Lys Thr Ala Glu Arg Tyr Arg Tyr Asp Pro Phe Val Asp Asp Gly
          115          120          125
Cys Val Pro Gly Ser Leu Ala Asp
          130          135

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<210> 32037

<211> 95

<212> PRT

<213> A.fumigatus

<400> 32037

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Leu Gly Arg Ser Gly Pro Cys Gly Leu Val Glu Gln Gly Ser Gln Glu
1           5           10           15
Gly Ile Leu Asp Ser Leu Arg Arg Leu Leu Ser Ala Ile Ala Met Ile
          20           25           30
Leu Leu Leu Thr Met Gly Ala Ser Gln Ala Val Ser Leu Ile Asp Met
          35           40           45
Leu Thr Asp Arg Trp Ile Ala Tyr Ser His Ser Met Met Phe Asn Thr
          50           55           60
Gly Asp Leu Ala Arg Trp Leu Pro Asp Gly Ser Leu Glu Thr Leu Gly
          65           70           75           80

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Arg Asn Asp Asp Gln Val Lys Ile Lys Val Gly Leu His Leu Ser
 85 90 95

<210> 32038

<211> 442

<212> PRT

<213> A.fumigatus

<400> 32038

Gly Phe Arg Val Glu Leu Asp Gly Val Ser Ala Ser Leu Ala Ser Cys
 1 5 10 15
 Pro Gly Val Leu Glu Ala Ala Ala Ile Met Val Glu Gly Asp Val Val
 20 25 30
 Ala Phe Val Thr Pro Gln Ala Leu Asp Leu Gln Gln Leu Gln Met His
 35 40 45
 Leu Lys Ala Arg Leu Pro Tyr Tyr Ala Val Pro Thr Gln Val His Arg
 50 55 60
 Val Asp Glu Phe Pro Leu Thr Pro Asn Gly Lys Ile Asp Lys Arg Ala
 65 70 75 80
 Leu Ala Gln Leu Ser Arg Pro Gln Lys Lys Thr Ser Gln Ser Asp Thr
 85 90 95
 Glu Met Leu Asp Glu Lys Lys His Val Val Leu Asn Ala Ser Arg Glu
 100 105 110
 Thr Val Ser Thr Arg Ser Asp Ser Ser Asp Ser Leu Arg Lys Pro Leu
 115 120 125
 Pro Leu Ala Glu Lys Lys Asn Arg Lys Val Val Arg Gly Leu Arg Tyr
 130 135 140
 Arg Ile Phe Ile Val Tyr Arg Arg Leu Phe Thr Leu Ile Trp Leu Ala
 145 150 155 160
 Asn Val Ala Ala Leu Leu Cys Ile Leu Phe Ile Pro Lys Leu Gly Pro
 165 170 175
 Gln Trp Ile Ser Thr Ile Ala Phe Ile Asn Leu Thr Ile Ala Val Leu
 180 185 190
 Val Arg Gln Asp Ala Val Ile Asn Val Leu Tyr Thr Ile Cys Cys Ser
 195 200 205
 Val Pro Lys Ser Trp Pro Leu Ala Ile Arg Arg Arg Cys Ala Lys Ile
 210 215 220
 Tyr His Leu Gly Gly Val His Ser Gly Ala Ala Met Ala Ala Thr Ala
 225 230 235 240
 Trp Phe Ala Gly Ser Ile Gly Tyr Asn Ile Tyr Asn Gln Val Asp Asp
 245 250 255
 Ala Arg Ala Leu Ala Lys Ala Ser Pro Ala Thr Leu Thr Leu Ser Leu
 260 265 270
 Ile Val Leu Leu Leu Leu Phe Ser Met Ile Gly Phe Ala Tyr Pro Thr
 275 280 285
 Phe Arg Lys Lys Arg His Asn Thr Phe Glu Arg Ile His Arg Phe Val
 290 295 300
 Gly Trp Thr Ile Leu Gly Ile Ile Trp Ile Gln Thr Ile Leu Ser Ile
 305 310 315 320
 Arg Asp Gln Arg Gly Thr Gln Pro Leu Gly Arg Ala Val Ile Ser Ser
 325 330 335
 Pro Asn Phe Trp Met Leu Leu Val Ile Thr Ala Ser Ile Ala Ser Ser
 340 345 350
 Trp Val Phe Leu Arg Lys Val Pro Val Asp Ala Glu Val Leu Ser Asn
 355 360 365
 His Ala Val Arg Leu His Phe Asp Tyr Thr Met Pro Val Asn Gly Thr

12491

370 375 380
Phe Thr Arg Leu Ser Glu Arg Pro Leu Leu Glu Trp His Ser Phe Ala
385 390 395 400
Thr Val Pro Ala Pro Thr Ala Val Asn Gly Arg Pro Lys Gly Tyr Ser
405 410 415
Leu Val Val Ser Arg Ala Gly Asp Trp Thr Gly Arg Gln Ile Ser Lys
420 425 430
Pro Pro Thr His Leu Trp Val Arg Gly Ile
435 440

<210> 32039
<211> 121
<212> PRT
<213> A.fumigatus

<400> 32039
Tyr Pro Val Leu Ser Pro Gln Ser Gly Phe Ile Ser Ser Glu Val His
1 5 10 15
Val Thr Glu Ser Ile Arg Phe Thr Val Ala Ser Arg Thr Phe Glu Leu
20 25 30
Leu His Asn Met Thr Asn Pro Gln Val Thr Asn Ala Thr Val Glu Trp
35 40 45
Ile Ala Arg Gly Ala Gly Asn Lys Phe Leu Phe Leu Leu Asp Val Arg
50 55 60
Phe Ala Thr Lys Ala His Thr Leu Leu Gly Gln Pro Glu Val Gly Met
65 70 75 80
Asp Leu Met Pro Gly Gly Gly Gly Gly Gln Tyr Leu Pro Arg Leu Ile
85 90 95
Gly Arg Gly Arg Ala Trp Asn Asn Ile Glu Leu Asp Arg His Tyr Tyr
100 105 110
Gly Gly Cys Gly Gly Asn Gly Phe Asp
115 120

<210> 32040
<211> 143
<212> PRT
<213> A.fumigatus

<400> 32040
Ser Leu Arg Arg Ile Phe Ser Ser Trp Pro Ile Ser Glu Ile Gly Ile
1 5 10 15
Ala Gly Arg Ala Asn Asn Met Tyr Asp Ser Arg Ile Glu Asn Leu Asn
20 25 30
Ile Gln Asn Trp Pro Val His Cys Phe Asp Ile Glu His Thr Glu Asn
35 40 45
Met Ile Ile Ser Gly Ile Thr Leu Asp Ile Ser Thr Gly Asp Ala Pro
50 55 60
Arg Ser Ala Ser Gly Ser Lys Pro Ala Ala Gln Pro Thr Ala Ser Ile
65 70 75 80
Ser Pro Leu Ala Pro Thr Ser Pro Val Glu Gln Leu Gly Thr Gln Pro
85 90 95
Gly Arg Leu Arg Arg Gly Leu Lys Arg Gln Pro Arg Arg Arg Arg Leu
100 105 110
His Leu Arg Arg Pro Trp Ala Lys His Arg Leu His Arg Gln Gln Glu
115 120 125
Arg Gln His Arg Arg Arg Gly Asp Leu Gln Leu Ala Gly His Arg

130

135

140

<210> 32041
 <211> 110
 <212> PRT
 <213> A.fumigatus

<400> 32041

Arg	Ile	Lys	Leu	Asn	Ser	Arg	Thr	Thr	Gly	Glu	Val	Ser	Asn	Thr	Arg
1				5					10				15		
Tyr	Glu	Asn	Val	Thr	Val	Cys	Gly	Ile	Thr	Asp	Tyr	Gly	Met	Asp	Thr
			20					25					30		
Gln	Gln	Asp	Tyr	Leu	Asn	Gly	Gly	Pro	Thr	Asp	Lys	Pro	Thr	Asn	Gly
			35				40					45			
Val	Lys	Ile	Glu	Asn	Ile	Thr	Phe	Val	Asp	Val	Thr	Gly	Thr	Met	Arg
	50					55				60					
Asp	Gly	Lys	Asp	Tyr	Tyr	Ile	Leu	Cys	Gly	Asp	Gly	Ser	Cys	Ser	Ser
65				70					75					80	
Leu	Ser	Leu	Lys	Met	Ala	Ala	Ser	Pro	Val	Val	Val	Ala	Thr	Ala	Val
				85					90					95	
Thr	Ile	Leu	Pro	Val	Leu	Val	Leu	Arg	Leu	Asp	Cys	Thr	Lys		
			100					105					110		

<210> 32042
 <211> 455
 <212> PRT
 <213> A.fumigatus

<400> 32042

Pro	Arg	Cys	Tyr	Asn	Ile	Ser	Leu	Phe	Leu	His	Ser	Leu	Ala	Val	Ile
1				5					10				15		
Leu	Arg	Phe	Lys	Gln	Gly	Ser	Cys	Leu	Pro	Val	Ser	Ser	Ile	Met	Ala
			20					25					30		
Trp	Gln	Arg	Pro	Asn	Cys	Ile	Val	Gln	Ala	Val	Gln	Thr	Val	Arg	Ala
			35				40					45			
Ala	Gln	Leu	Gln	Ser	Ile	Leu	Arg	Thr	Ser	Thr	Val	Thr	Ser	Gly	Ser
	50					55				60					
Leu	Leu	Gln	Gln	Arg	Lys	Gly	Thr	Arg	Ser	Tyr	Ala	Thr	Glu	Ala	Gln
65				70					75					80	
Thr	Thr	Gly	Gly	Asn	Ala	Leu	Gln	Val	Arg	Ala	Ala	Ser	Glu	Ile	Asp
				85				90					95		
Phe	Ser	Gln	Leu	Ala	Thr	Arg	Pro	Ala	Arg	Val	Ile	Pro	Ala	Ser	Pro
			100					105					110		
Ala	Tyr	Phe	Ser	Gly	Ser	Pro	Lys	Phe	Ile	Asp	His	Leu	Leu	Asn	Leu
	115					120						125			
Glu	Arg	Val	Cys	Ala	Lys	Tyr	Ala	Ser	Leu	Pro	Thr	Val	Ala	Pro	Asn
	130					135					140				
Glu	Ala	Pro	Arg	Met	Ala	Trp	Leu	Lys	Leu	Ala	Gln	Phe	Arg	Asp	Phe
145				150					155					160	
Val	Gly	Glu	Pro	Val	Pro	Thr	Lys	Lys	Tyr	Lys	Ser	Leu	Val	Lys	Ile
				165				170					175		
Leu	Gln	Arg	Leu	Asn	Arg	Ile	Glu	Pro	Ala	Leu	Val	Pro	Gly	Glu	Val
			180				185						190		
Arg	Asp	Thr	Leu	Lys	Thr	Phe	Leu	Arg	Pro	Gly	Asn	Pro	Tyr	Gly	Asn
	195						200					205			
Lys	Pro	Ala	Pro	Ala	Thr	Val	Asp	Glu	Met	Gly	Arg	Ala	Arg	Gly	Lys

210 215 220
 Gly Lys Arg Lys Thr Ser Ser Ala Val Gly Tyr Leu Val Glu Gly Lys
 225 230 235 240
 Gly Glu Val Met Val Asn Gly Lys Thr Leu Val Glu Ala Phe Pro Arg
 245 250 255
 Leu His Asp Arg Glu Ser Ala Thr Trp Pro Leu Arg Cys Thr Ser Arg
 260 265 270
 Leu Asp Lys Tyr Asn Val Trp Ala Thr Val Arg Gly Val Val Ser Leu
 275 280 285
 Ala Gln Ala Glu Ala Ile Thr Leu Ala Leu Ala Arg Ala Leu Leu Val
 290 295 300
 His Glu Pro Ala Leu Lys Pro Ile Leu Arg Lys Gly Thr Leu Gln Met
 305 310 315 320
 Arg Leu Ser Glu Trp Val Val Lys Asn Ile Ala Asp Asn Phe Ser Ser
 325 330 335
 Trp Cys His Tyr Arg Arg Cys Ser Ser Arg Arg Glu Lys Glu Thr Arg
 340 345 350
 Ser Arg Gln Gly Ser Gln Asp Ala Asn Leu Gly Gln Glu Met Lys Ala
 355 360 365
 Cys Leu Phe Ser Leu Gly Pro Gly Val Leu Ser Ala Leu Tyr Ser Val
 370 375 380
 Tyr Cys Ser His Phe Pro Asp Leu Tyr His Tyr Leu Thr Cys His Leu
 385 390 395 400
 Asp Ser Ser Leu Asn Met Leu Ser Asp Pro Pro His His Arg Ala Cys
 405 410 415
 Val Met Gly Val Cys Phe Lys Thr Arg His Leu His Gly Arg Ser Arg
 420 425 430
 Arg Gln Ala Met Tyr Leu Ser Leu Thr Leu Ile Gly Arg Tyr Pro Gln
 435 440 445
 Met Thr Met Glu Ser Ile Asp
 450 455

<210> 32043

<211> 300

<212> PRT

<213> A.fumigatus

<400> 32043

Ser Val Leu Arg Gly His Pro Arg Ser Arg Leu Arg Met Glu Asp Arg
 1 5 10 15
 Ile Gln Phe Asp Ile Asn Glu Ser Leu Lys Tyr Tyr Leu Ser Asp Pro
 20 25 30
 Ala Ser Val Pro Thr Asn Asp Ala Asp Pro Glu Leu Leu Asp Cys Glu
 35 40 45
 Ser Asp Leu Glu His Leu Thr Pro Ala Leu Ile Asp Asn Val Leu Asn
 50 55 60
 Pro Ile Val Asp Ala Val Ala Glu Ser Pro Glu Ala Leu Ala Arg Gln
 65 70 75 80
 Ser Phe Phe Asp Ser Leu Gln Phe Leu Leu Lys Cys Ala Met Ala Leu
 85 90 95
 Ser Ser Phe Ser Glu Phe Pro Gly His Gly Gly Thr Leu Ser Glu Leu
 100 105 110
 Leu Asn Ser Cys Arg Tyr Ser Ser Phe Leu Pro Thr Lys Ser Leu Ser
 115 120 125
 Lys Leu Leu Asp Leu Ile Val Ser Gly Leu Ser Leu Glu Ala Asp Ile
 130 135 140

Ile His Gly Asp Leu Glu Ala Glu Glu Gln Asp Ala Ile Gln His His
 145 150 155 160
 Lys Gln Leu Leu Glu Met Tyr Gly Phe Leu Leu Gln Trp Ala Leu Ser
 165 170 175
 Ala Val Glu Val Lys Ala Ala Glu Lys Pro Ala Glu Ala Ala Pro Ala
 180 185 190
 Arg Arg Gly Ala Gly Lys Ser Gly Arg Ser Lys Thr Ser Asn Arg Asp
 195 200 205
 Gly Thr Trp Asp Trp Thr Ala Gln Ile Gln Ile Ser Met Glu Thr Met
 210 215 220
 Cys Lys Val Met Lys Leu Lys Leu Ser Arg Ile Phe Met Thr Thr Ser
 225 230 235 240
 Asp Arg Asp Thr Phe Ile Asn Leu Phe Thr Arg Ala Ile Tyr Leu Ile
 245 250 255
 Leu Glu Ser Glu Gln Arg Val Lys Ser Leu Ala Ile Arg Met His Ala
 260 265 270
 Phe Lys Val Leu Cys Ile Ala Val Lys His His Gly His Ala Phe Gly
 275 280 285
 Arg Val Gln Glu His Asn Glu Gln Ser Cys Leu Ser
 290 295 300

<210> 32044

<211> 343

<212> PRT

<213> A.fumigatus

<400> 32044

Leu Leu Pro Gln Ser Tyr Thr Leu Arg Cys Ala Val Val Glu Val Cys
 1 5 10 15
 Gly Asn Leu Ile Ala Asp Leu Ser Arg Gln Glu Glu Arg Ser Glu Asn
 20 25 30
 Tyr Lys Thr Gln Ile Asn Ala Phe Phe Asp Val Leu Glu Glu Arg Phe
 35 40 45
 Leu Asp Val Asn Pro Tyr Cys Arg Cys Arg Ala Ile Gln Val Tyr Met
 50 55 60
 Arg Ile Cys Asp Leu Glu Gln Lys Phe Pro Lys Arg Arg Gln Ala Val
 65 70 75 80
 Ala Glu Leu Ala Ala Arg Ser Leu Glu Asp Lys Ser Ser Asn Val Arg
 85 90 95
 Arg Asn Ala Ile Lys Leu Leu Ala Lys Leu Val Ser Thr His Pro Phe
 100 105 110
 Ser Val Met His Gly Gly Gln Leu Ser Tyr Lys Glu Trp Ala Ala Arg
 115 120 125
 Leu Glu Asn Val Asp Ala Glu Leu Asn Ala Leu Arg Pro Pro Glu Thr
 130 135 140
 Pro Gly Phe Asp Gly Gly Glu Ala Ser His Val Asp Ser Glu Leu Leu
 145 150 155 160
 Asp Asp Ala Thr Gln Ile Pro Glu Asp Ser Pro Ser Lys Ala Pro Arg
 165 170 175
 Met Thr Asp Ala Glu Lys Ala Ala Ala Ile Gln Arg Ala Ala Glu Gln
 180 185 190
 Ala Ala Thr Ser Glu Leu Leu Ala Arg Leu Gln Leu Thr Arg Lys Tyr
 195 200 205
 Tyr Asn Glu Ala Ile Arg Phe Ile Glu Val Leu His Ser Ala Ser Ala
 210 215 220
 Val Val Ser Gln Leu Leu Ser Ser Arg Asn Lys Ser Glu Val Ile Glu

[illegible]

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<210> 32045
<211> 122
<212> PRT
<213> A.fumigatus
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Gln	Arg	Leu	Leu	Gln	His	Arg	Leu	Asn	Trp	Thr	Ile	Asp	Tyr	Asn	Thr
1				5					10					15	
Gly	Ala	Tyr	Arg	Ala	Gln	Phe	Pro	Thr	Pro	Thr	Gly	Asn	Pro	Ala	Asp
			20					25					30		
Pro	Thr	Leu	Thr	Ser	His	Gly	Val	Arg	Gln	Ser	His	Glu	Phe	Ala	Ala
			35				40					45			
His	Ile	Ser	Ser	Pro	Arg	Phe	Gln	Pro	Lys	Pro	Phe	Arg	Val	Tyr	Cys
	50					55					60				
Ser	Pro	Phe	Tyr	Arg	Cys	Leu	Gln	Thr	Ile	Gln	Pro	Thr	Val	Glu	Ala
65					70					75					80
Leu	Lys	Ala	Lys	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	His	Glu	Glu	Ser
				85					90					95	
Ser	Asp	Ile	Asp	Ala	Cys	Ala	Asp	Phe	Asp	Val	Arg	Val	Glu	Asn	Gly
			100					105					110		
Ile	Gly	Leu	Ala	Pro	Thr	Leu	Pro	Gln	Leu						
		115					120								

<400> 32046

Ser	Ala	Ser	Lys	His	Cys	Asn	Pro	Thr	Val	Glu	Gly	Ser	Thr	His	Gln
1				5					10					15	
Pro	Leu	Ser	Ala	Pro	Glu	Leu	Arg	Asn	Pro	Gln	Ser	Pro	Phe	Phe	Thr
			20					25					30		
Gln	Ser	His	Pro	Pro	Pro	Thr	Pro	Phe	Pro	Pro	Arg	Gln	Ser	Gly	Thr
		35				40						45			
Phe	Val	Ser	Ala	Arg	Arg	Ile	Phe	Val	Pro	Gly	Ala	Asn	Ala	Ser	Thr
	50					55					60				
Pro	Thr	Pro	Ala	Val	Pro	Thr	Leu	Phe	Pro	Leu	Leu	Arg	Asn	Val	Leu
65					70					75					80
Asn	Pro	Ala	Val	Lys	Thr	Lys	Lys	Ser	Ser	Val	Glu	Leu	Ser	Ser	Gly

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<210> 32047
<211> 408
<212> PRT
<213> A.fumigatus
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<400> 32047																			
Gln	Thr	Arg	Val	Ser	Leu	Ala	Lys	Trp	Ala	Phe	Gln	Thr	Val	Pro	Gln				
1				5					10					15					
Thr	Ser	Lys	Phe	His	Pro	Thr	Gly	Thr	Pro	Ala	Gln	Glu	Ser	Gly	Gly				
			20					25					30						
Ser	Tyr	Arg	Cys	Pro	Tyr	Ser	Ser	Gln	Val	Lys	Tyr	Pro	Glu	Asp	Gln				
		35					40					45							
Leu	Gln	Leu	Gly	Ile	Ala	His	Pro	Ala	Glu	Arg	Ile	Ile	Arg	Ile	Arg				
	50					55					60								
Asn	Gln	Leu	Cys	Glu	Met	Leu	Asp	Asp	Leu	Tyr	Ser	Asp	Pro	Arg	Ala				
65					70					75					80				
Ala	Arg	Asn	Gly	Asn	Ile	Glu	Ala	Leu	Leu	Ala	Arg	Val	Phe	Asn	Ile				
				85					90					95					
Tyr	Thr	Arg	Ala	Asp	Gln	Leu	Arg	Val	Thr	Gln	Ser	Arg	Leu	Gln	Pro				
			100					105					110						
Thr	Leu	Ala	Thr	Asn	Ala	Ser	Ala	Asn	Ala	Glu	Pro	Ala	Gln	Pro	Pro				
		115					120					125							
Leu	Tyr	Leu	Leu	Ser	Ser	Pro	Gly	Gly	Tyr	Gln	Ala	Leu	Val	Ala	Ser				
	130					135					140								
Pro	Gly	Ala	Thr	Asn	Ser	Ile	Gln	Ala	Leu	Val	Ala	Ser	Phe	His	Val				
145					150					155					160				
Ser	Gln	Thr	Pro	Glu	Phe	Thr	Pro	Ile	Gln	Ala	Pro	Ala	Gln	Pro	Ala				
				165					170					175					
Arg	Phe	Arg	Ala	Asn	Gln	Glu	Ala	Val	Val	Leu	Glu	Asn	Val	Val	Arg				
		180						185					190						
Gln	Ala	Val	Leu	Asn	Gln	Arg	Ala	Val	Asn	Asn	Gly	Pro	Val	Asp	Leu				
		195					200					205							

Ser Arg Tyr Ile Arg Arg Ile Trp Leu Phe Val Arg Leu Tyr Phe Phe
 210 215 220
 Cys Tyr Met Phe Ser Glu Pro Gly Thr Trp Leu Arg Val Leu Tyr Val
 225 230 235 240
 Thr Leu Ala Val Ile Ala Ser Leu Leu Ser Glu Thr Asn Ile Pro Arg
 245 250 255
 Gln Leu Phe Asn Leu Thr Val Ala Pro Leu Gln Arg Tyr Leu Glu Gly
 260 265 270
 Leu Leu His Val Ala Pro Asp Ala Ala Gly Asn Asn Gly Thr Arg Ala
 275 280 285
 Ala Val Asn Gly Thr Gly Met Leu Asn Asp Asn Arg Ala Ser Leu Pro
 290 295 300
 Gly Gln Leu Arg Gln Gly Ile Gln Arg Leu Glu Arg Ser Ala Ala Leu
 305 310 315 320
 Phe Val Ala Ser Leu Val Pro Gly Val Gly Glu Arg Gln Ile Glu Val
 325 330 335
 Arg Asn Ala Ala Glu Ala Ala Arg Asn Ala Gln Leu Ala Arg Glu Glu
 340 345 350
 Glu Glu Arg Arg Arg Gln Gln Glu Thr Ala Gly Asn Gly Glu Asn Ser
 355 360 365
 Ala Glu Arg Gln Glu Pro Arg Glu Glu Ala Asp Gly Ala Asn Glu Arg
 370 375 380
 Val Glu Pro Ala Glu Gln Asn Ile Met Thr Thr Asn Gln Ser Glu Pro
 385 390 395 400
 Leu Ile Pro Leu Glu Pro Asp Glu
 405

<210> 32048
 <211> 128
 <212> PRT
 <213> A.fumigatus

<400> 32048
 Pro Pro Ser Asp Arg Ser Arg Tyr Asp Thr Gly Thr Ile Ser Gly Ile
 1 5 10 15
 Leu Ala Met Pro Tyr Trp Gln Glu Leu Phe Ser Thr Gly Tyr Arg Asp
 20 25 30
 Pro Thr Gly His Pro Asn Ile Thr Ser Ser Gln Ser Ala Ala Ile Val
 35 40 45
 Ser Ile Leu Ser Ala Gly Thr Phe Phe Gly Ala Leu Gly Ala Ala Pro
 50 55 60
 Met Gly Asp Arg Ile Gly Arg Arg Trp Gly Leu Ile Ala Ser Ala Gln
 65 70 75 80
 Val Phe Asn Leu Gly Val Ile Leu Gln Thr Ala Ala Thr Gly Ile Pro
 85 90 95
 Leu Phe Leu Ala Gly Arg Phe Phe Ala Gly Leu Gly Val Gly Leu Ile
 100 105 110
 Ser Ala Leu Ser Met Ser Ser Leu Ser His Gly Ile Pro Gly Phe Asp
 115 120 125

<210> 32049
 <211> 162
 <212> PRT
 <213> A.fumigatus

<400> 32049

12498

Trp Thr Val Pro Leu Tyr Gln Ser Glu Thr Ala Pro Lys Trp Ile Arg
 1 5 10 15
 Gly Thr Ile Val Gly Ala Tyr Gln Leu Ser Ile Thr Ile Gly Leu Leu
 20 25 30
 Leu Ala Ser Ile Val Asn Asn Ser Thr Gln Asn Arg Met Asp Thr Gly
 35 40 45
 Cys Tyr Arg Ile Pro Ile Ala Val Gln Phe Ala Trp Ser Ile Ile Leu
 50 55 60
 Val Gly Gly Met Leu Ile Leu Pro Asp Thr Pro Arg Tyr Leu Ile Lys
 65 70 75 80
 Arg Gly Asn Ile Asp Gly Ala Ala Arg Ala Leu Gly Arg Leu Arg Arg
 85 90 95
 Leu Pro Ala Asp Asp Pro Ala Val Arg Glu Glu Leu Ala Glu Ile Gln
 100 105 110
 Ala Asn His Glu Tyr Glu Leu Ser Leu Gly Lys Ser Thr Tyr Leu Asp
 115 120 125
 Cys Phe Lys Gly Asn Leu Leu Lys Arg Leu Leu Thr Gly Cys Gly Leu
 130 135 140
 Gln Ala Leu Gln Gln Leu Thr Val Tyr Thr Ala Gly Gly Trp Lys Val
 145 150 155 160
 Pro Ser

<210> 32050
 <211> 104
 <212> PRT
 <213> A.fumigatus

<400> 32050
 Ile Pro Thr Glu Ala Ser Arg Pro Gln Thr Pro Ser Thr Lys Cys Ser
 1 5 10 15
 Ser Asn Ser Ser Lys Ile Gln Ser Gly Pro Gly Pro Pro Lys Trp Ser
 20 25 30
 Glu Asn Phe Phe Ser Pro Pro Arg Gln Pro Pro Gly Lys Pro Ala Gly
 35 40 45
 Leu Ala Pro Pro Gly Ile Pro Lys Gly Ala Ser Ser Tyr Pro Pro Lys
 50 55 60
 Gly Asn Leu Asn Cys Pro Gln Phe Asn Pro Gly Thr Gly Pro Thr Ser
 65 70 75 80
 Val Lys Pro Gly Asn Met Val Trp Pro Asn Ser Lys Leu Pro Pro Arg
 85 90 95
 Lys Gln Gln Asn Pro Gly Glu Ile
 100

<210> 32051
 <211> 85
 <212> PRT
 <213> A.fumigatus

<400> 32051
 Arg Leu Leu Pro Thr Thr Ser Lys Asp Thr Lys Arg Asp Pro Phe Pro
 1 5 10 15
 Leu Val Ala Leu Gly Val Ala Leu Ile Met Arg Leu Val Ser Gly Tyr
 20 25 30
 Pro Ser Ser Val Ser Asp Phe Ile Ser Asp Leu Leu Thr Ile Asp Ile
 35 40 45

12499

Ala Ala Cys Val Glu Asp Val Pro Phe Lys Thr Leu Val Arg Ile Arg
 50 55 60
 Ile Ser Ser Leu Phe Asp Ser Leu Lys Lys Gln Leu His Ala Leu Thr
 65 70 75 80
 Ile Ala Lys Ile Asn
 85

<210> 32052
 <211> 205
 <212> PRT
 <213> A.fumigatus

<400> 32052
 Ala Pro Leu Leu Phe Gly Leu Val Lys Leu Leu Tyr Ser Tyr Cys Ile
 1 5 10 15
 Gln Leu Gly Asp Lys Ser Val Asn Tyr Ser Leu Pro Asp Gln Met Leu
 20 25 30
 Ser Tyr Pro Ala His Pro Ile Tyr Pro Pro Ile Tyr Ser Gly Asp Glu
 35 40 45
 Leu Ser His Pro Pro Gly Ala Met Thr Pro Ser Asp Val Ser Ser Ser
 50 55 60
 Ile Ser Pro Pro Asn Gly Gln Leu Gly Asn Ile Lys Tyr Ser Thr Pro
 65 70 75 80
 Val Ala Gly Glu Ser Ile Ala Ser Ala Leu Ser Gln Glu Glu Glu Leu
 85 90 95
 Arg Arg Ala Ala Glu Glu Asp Arg Arg Arg Arg Asn Thr Ala Ala Ser
 100 105 110
 Ala Arg Phe Arg Met Lys Lys Lys Gln Arg Glu Gln Thr Leu Glu Arg
 115 120 125
 Thr Val Arg Glu Thr Thr Glu Lys Asn Ala Ser Leu Glu Ala Arg Val
 130 135 140
 Ala Gln Leu Glu Met Glu Asn Arg Trp Leu Lys Asn Leu Leu Thr Glu
 145 150 155 160
 Lys His Glu Ala Ser Ala Ser Arg Met Ala Pro Pro Pro Thr Asp Ser
 165 170 175
 Thr Ala Leu Asn Ser Lys Thr Asn Gly Leu Ala Gly Ser Gly Gln Lys
 180 185 190
 His Ile Gln Pro Lys Lys Lys Gly Val Gly Thr Asp Asn
 195 200 205

<210> 32053
 <211> 204
 <212> PRT
 <213> A.fumigatus

<400> 32053
 Arg Val Ser Ser Ala Gly Gly Leu Gly Gly Asp Gly Ala Ser Ala Arg
 1 5 10 15
 Gly Ala Gly Leu Leu His Glu Gly Ala Ala Gly Thr Gly Arg Leu Gly
 20 25 30
 Ser Gly Gly Asp Ser Gly Arg Ala Thr Lys Val Ala Gly Gly Gly Ser
 35 40 45
 Arg Ala Leu Leu Gly Val Val Leu Val Glu Gln Glu Val Glu Leu Leu
 50 55 60
 Leu Gly Gly Ala His Ala Ile Gly Ala Val Ala Ala Cys Gly Ser Val
 65 70 75 80

12500

Ala Gly Asp Ala Gly Ala Val Ser Val Ala Ala Asp Lys Thr Glu Lys
 85 90 95
 Val Ala Val Leu Val Ala Ala Asp Gly Val Leu Asp Asp Thr Gly Gly
 100 105 110
 Gly Val Ala His Ala Gly Ala Glu Leu Leu Val Arg Gly Arg Gly Gln
 115 120 125
 Gly Thr Gly Ala Gly Lys Pro Leu Ala Val Asp Gly Arg Ala Ala Leu
 130 135 140
 Gln Ser Cys Val Gly Gly Gly Val Gly Gly Phe Ile Gly Ala Gly Gly
 145 150 155 160
 Val Gly Val Val Val Asp Leu Ala Gly Val Val Leu Glu Val Gly His
 165 170 175
 Gly Ala Asp Ala Gly Ala Val Asn Ser Gly Asp Lys Thr Trp Met Asp
 180 185 190
 Gln Leu Arg Pro Met Thr Gly Ser Lys Ser Leu Pro
 195 200

<210> 32054

<211> 246

<212> PRT

<213> A.fumigatus

<400> 32054

Ser Ser His Trp Pro Gln Leu Ile His Pro Gly Leu Val Ser Ala Val
 1 5 10 15
 Asp Ser Thr Ser Val Ser Thr Met Ala Asp Phe Lys Tyr Tyr Ser Ser
 20 25 30
 Gln Ile Asn Asn Asn Ala Asn Pro Ser Gly Thr Asn Lys Ala Ser Tyr
 35 40 45
 Thr Pro Thr Asn Thr Ala Leu Gln Ser Cys Pro Thr Val Asn Ser Gln
 50 55 60
 Trp Leu Ala Ser Ala Ser Pro Leu Pro Pro Thr Pro Asn Glu Gln Leu
 65 70 75 80
 Cys Thr Cys Met Ser Asn Ala Ala Ser Cys Val Val Lys Asp Ser Val
 85 90 95
 Ser Ser Asp Glu Tyr Gly Asp Leu Phe Ser Leu Ile Cys Gly Tyr Thr
 100 105 110
 Asp Cys Thr Gly Ile Ala Arg Asn Ala Thr Thr Gly Ser Tyr Gly Ala
 115 120 125
 Tyr Gly Met Cys Thr Pro Lys Gln Gln Leu Asn Phe Leu Leu Asn Lys
 130 135 140
 Tyr Tyr Ser Glu Gln Ser Ser Ala Ser Ser Ala Cys Asn Phe Gly Gly
 145 150 155 160
 Ser Ala Thr Val Thr Ser Ala Thr Lys Ala Thr Gly Ala Cys Ser Ser
 165 170 175
 Leu Met Lys Glu Ala Gly Thr Ala Gly Thr Gly Thr Val Thr Ser Lys
 180 185 190
 Pro Thr Gly Thr Ala Asp Ser Ser Gly Ser Ser Ala Ser Ser Thr Ser
 195 200 205
 Ser Ser Gly Thr Ala Val Ala Leu Thr Arg Gly Ser Ala Val Thr Val
 210 215 220
 Gly Ser Phe Glu Leu Gly Val Tyr Ala Ile Thr Ala Leu Leu Thr Ala
 225 230 235 240
 Val Gly Met Val Met Leu
 245

12501

<210> 32055
<211> 274
<212> PRT
<213> A.fumigatus

<400> 32055
Met Arg His Met Arg Leu Thr Ser Thr Glu Asp Tyr Ser Ser Asn Gly
1 5 10 15
Thr Thr Asp Gly Ser Ser Thr Tyr Ile Asp Pro Leu Ser Asp Ala Thr
20 25 30
Leu Cys Lys Arg Asp Val Pro Ile Phe Arg Glu Leu Asn Thr Asn Thr
35 40 45
Ile Arg Val Tyr Ala Ile Asp Pro Thr Ala Asn His Thr Glu Cys Met
50 55 60
Gln Met Leu Ala Asp Ala Gly Ile Tyr Val Ile Ser Asp Leu Ser Asp
65 70 75 80
Pro Ser Gln Ser Ile Asp Arg Ser Asp Pro Ser Trp Glu Thr Thr Leu
85 90 95
Tyr Asn Arg Tyr Thr Ser Val Ile Asp Ala Leu Ala Pro Tyr Asn Asn
100 105 110
Thr Leu Gly Phe Phe Ala Gly Asn Gln Val Ser Asn Thr Val Gly Thr
115 120 125
Thr Asp Ala Ser Ala Phe Val Lys Ala Ala Val Arg Asp Met Lys Ala
130 135 140
Tyr Ile Lys Glu Lys Gly Tyr Arg Ser Met Gly Val Gly Tyr Ala Thr
145 150 155 160
Asn Asp Asp Ser Ser Ile Arg Val Asn Met Ala Asp Tyr Phe Asn Cys
165 170 175
Glu Asp Ser Asp Glu Ser Ile Asp Phe Trp Gly Tyr Asn Ile Tyr Ser
180 185 190
Trp Cys Gly Asp Ser Ser Tyr Thr Glu Ser Gly Tyr Ser Val Arg Thr
195 200 205
Glu Glu Phe Arg Asn Tyr Ser Val Pro Val Phe Phe Ala Glu Tyr Gly
210 215 220
Cys Asn Glu Val Thr Pro Arg Lys Phe Thr Glu Ile Glu Ala Leu Phe
225 230 235 240
Gly Asp Lys Met Asn Asp Val Trp Ser Gly Gly Ile Val Tyr Met Tyr
245 250 255
Phe Gln Glu Ala Asn Asn Tyr Gly Lys Leu Phe Asp Pro Val Ile Gly
260 265 270
Arg Asn

<210> 32056
<211> 101
<212> PRT
<213> A.fumigatus

<400> 32056
Arg His Thr Ser Arg Arg Arg Asp Thr Ala Gln Trp Glu Ser Ala Thr
1 5 10 15
Arg Pro Thr Met Thr Arg Pro Ser Ala Ser Thr Trp Leu Thr Thr Ser
20 25 30
Thr Ala Lys Thr Val Thr Ser Arg Leu Thr Ser Gly Asp Thr Thr Ser
35 40 45
Thr Pro Gly Val Val Ile Arg Pro Thr Leu Ser Leu Gly Thr Val Phe

10542 U.S. PRO
09/417507



12502

50		55		60
Ala Gln Lys Ser Ser Gly Thr Thr Pro Cys Leu Ser Ser Leu Pro Ser				
65		70		75
Met Val Ala Thr Arg Ser Leu Pro Ala Ser Ser Gln Lys Ser Lys Pro				80
	85		90	95
Cys Leu Glu Thr Arg				
100				

<210> 32057
 <211> 133
 <212> PRT
 <213> A.fumigatus

<400> 32057
Ile Ile Thr Ile Thr Ser Gly Ile Leu Arg Asp Asn Val Pro Asp Gly
1 5 10 15
Asp Met Thr Ile Ser Asn Thr Gly His Asp Leu Asn Arg Ile Cys Leu
20 25 30
Val Leu Asp Glu Ile Ile Pro Thr Trp Arg Ala His Ser Ser Ile Leu
35 40 45
Met Thr His Pro Ser Ala Ser Phe Gly Met Trp Pro Cys Val Gln Cys
50 55 60
Asn Leu Glu Asn Ile Arg Val Thr Leu Gln Gln Leu Arg Gln Glu Leu
65 70 75 80
Glu Pro Val Ala Glu Ser Gly Gln Lys Lys Arg Ser Leu Phe Lys Val
85 90 95
Tyr Ala Lys Ala Trp Lys Leu Gly Leu His Ser Arg Ala Ile Ile Ala
100 105 110
Tyr Arg Gly Arg Leu Glu Pro His Arg Lys Ala Leu Arg Val Gly Ala
115 120 125
Thr Met Met Asn Met
130

<210> 32058
 <211> 160
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (102)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32058
Ala Met Thr Val Arg Cys Thr Cys Val Ser Val Ser Phe Phe Ser Phe
1 5 10 15
Phe Arg Phe Thr Glu Pro Asn Gln Ala Glu Glu Ile Lys Asp Ala Ala
20 25 30
Glu Thr Leu Pro Lys Ala Met Met Ser Ala Val Ala Val Asn Gly Val
35 40 45
Leu Gly Phe Val Met Val Val Thr Leu Cys Phe Thr Leu Gly Asp Val
50 55 60
Asp Ser Ile Leu Ser Thr Pro Thr Gly Phe Pro Phe Ile Gln Ile Phe
65 70 75 80
Tyr Asn Thr Thr Asn Ser Tyr Ala Ala Thr Asn Thr Met Thr Ala Val
85 90 95

12503

Leu Val Ile Thr Leu Xaa Ala Ser Thr Ile Thr Glu Val Ala Thr Ala
 100 105 110
 Phe Pro Gln Leu Trp Ser Phe Ala Arg Asp Gln Gly Leu Pro Phe Ser
 115 120 125
 Ser Phe Phe Ala Tyr Val Ser Leu Thr Pro Pro Ile Ser Gly Arg Arg
 130 135 140
 Tyr Trp Ser Pro Lys Cys Lys Ser Thr Pro Gly Leu Asp Ile Pro Phe
 145 150 155 160

<210> 32059
 <211> 87
 <212> PRT
 <213> A.fumigatus

<400> 32059
 Met Ile Asn Gln Ala Ser Ser His Arg Asp Ile Lys Leu Asn Arg Gly
 1 5 10 15
 Ala Cys Ile Ala Arg Val Val Gly Ser Cys Asn His Gly Val Cys Ile
 20 25 30
 Glu Met Gly Leu His Asp Leu Ile Lys Pro Ser His Ser Ile Val Glu
 35 40 45
 Ile Val Ser Val Ala Gly Val Ser Ile Leu Leu Trp Ala Val Glu Tyr
 50 55 60
 Ser Leu Ile Ala Leu Glu Leu Leu Ser Lys Lys Met Val Gly Val Asp
 65 70 75 80
 Gln Gly Ile Thr Met Ala Leu
 85

<210> 32060
 <211> 204
 <212> PRT
 <213> A.fumigatus

<400> 32060
 Glu Cys Leu Ser Ala Leu Asp Arg Ala Leu Phe Asp Asp Ser Arg Ala
 1 5 10 15
 Pro Thr Ser Gly Gly Gln Tyr His Trp Val Ser Glu Phe Ala Pro Arg
 20 25 30
 Arg Ala Gln Lys Phe Leu Ser Tyr Ile Thr Gly Arg His Gln Asp Leu
 35 40 45
 Gly Val Ser Arg Ala Glu Leu Thr Leu Ile Gly Trp Leu Ser Ala Thr
 50 55 60
 Gly Trp Gln Cys Ala Ile Val Ser Ile Ala Phe Leu Ala Gly Thr Ile
 65 70 75 80
 Ile Gln Gly Leu Val Val Leu Asn Asp Pro Thr Tyr Glu Phe Gln Arg
 85 90 95
 Trp His Gly Thr Leu Leu Val Val Ala Ile Thr Thr Phe Ser Ile Leu
 100 105 110
 Phe Asn Thr Phe Leu Ala Lys Asn Leu Pro Met Val Glu Gly Leu Ile
 115 120 125
 Leu Ile Ile His Val Val Gly Leu Phe Ala Ile Ile Ile Pro Leu Trp
 130 135 140
 Val Leu Ala Pro Arg Asn Ser Ala Lys Ala Val Phe Thr Glu Phe Asn
 145 150 155 160
 Asn Ala Gly Gly Trp Asp Ser Asp Gly Thr Ala Thr Leu Val Gly Leu
 165 170 175

12504

Ser Thr Thr Ile Thr Ala Met Ile Gly Tyr Asp Cys Ser Val His Met
 180 185 190
 Cys Lys Cys Val Phe Phe Phe Phe Phe Ser Phe Tyr
 195 200

<210> 32061
 <211> 475
 <212> PRT
 <213> A.fumigatus

<400> 32061
 Asn Arg Leu Ala Trp Asn Arg Asn Pro Glu Thr Pro Leu Gly Ile Arg
 1 5 10 15
 Thr Lys Arg Ile Val Ile Phe Met Ser Asp Gln Leu Phe Gln Lys Leu
 20 25 30
 Phe Thr Arg Thr Asp Ser Ser Gln Glu Ser Tyr Gly Ile Pro Ser Leu
 35 40 45
 Ser Gln Gly Met Ala Gly Val Lys Thr Tyr Ile Lys Pro Phe Pro Asn
 50 55 60
 Ala Asn Ile Asp Phe Phe Asn Val Gln Glu Thr Ile Met His Met Leu
 65 70 75 80
 Gly Tyr Ala Arg Lys Gly Lys Glu Phe Glu Ile Leu Arg Asn Phe Arg
 85 90 95
 Gly Val Leu His Pro Gly Glu Met Val Leu Val Leu Gly Arg Pro Gly
 100 105 110
 Ser Gly Cys Thr Thr Phe Leu Lys Thr Ile Thr Asn Gln Arg Phe Gly
 115 120 125
 Tyr Thr Ser Ile Asp Gly Asp Val Leu Tyr Gly Ile Phe Asp Ala Asp
 130 135 140
 Thr Phe Ala Lys Arg Phe Arg Gly Glu Ala Val Tyr Asn Gln Glu Asp
 145 150 155 160
 Asp Val His Gln Pro Thr Leu Thr Val Lys Gln Thr Leu Gly Phe Ala
 165 170 175
 Leu Asp Thr Lys Thr Pro Gly Lys Arg Pro Leu Gly Val Ser Lys Ala
 180 185 190
 Glu Phe Arg Glu Lys Val Ile Asn Met Leu Leu Lys Met Phe Asn Ile
 195 200 205
 Glu His Thr Ala Asn Thr Val Ile Gly Asn Gln Phe Ile Arg Gly Val
 210 215 220
 Ser Gly Gly Glu Arg Arg Arg Val Ser Ile Ala Glu Met Met Ile Thr
 225 230 235 240
 Ser Ala Thr Val Leu Ala Trp Asp Asn Ser Thr Arg Gly Leu Asp Ala
 245 250 255
 Ser Thr Ala Leu Asp Phe Ala Lys Ser Leu Arg Ile Met Thr Asn Ile
 260 265 270
 Tyr Lys Thr Thr Thr Phe Val Ser Leu Tyr Gln Ala Ser Glu Asn Ile
 275 280 285
 Tyr Lys Gln Phe Asp Lys Val Leu Val Ile Asp Ser Gly Arg Gln Val
 290 295 300
 Phe Phe Gly Pro Ala Ser Glu Ala Arg Ser Tyr Phe Glu Ser Leu Gly
 305 310 315 320
 Phe Lys Glu Arg Pro Arg Gln Thr Thr Pro Asp Tyr Leu Thr Gly Cys
 325 330 335
 Thr Asp Pro Phe Glu Arg Glu Phe Lys Glu Gly Arg Ser Glu Asp Asp
 340 345 350
 Val Pro Ser Thr Pro Asp Ser Leu Val Glu Ala Phe Asn Arg Ser Ser

12505

355	360	365
Tyr Ser Glu Arg Leu Ala Gln Glu Met Asp Ala Tyr Arg Lys Lys Leu		
370	375	380
Glu Gln Glu Lys His Val Tyr Glu Asp Phe Glu Ile Ala Asn Gln Glu		
385	390	395
Ala Lys Arg Lys Phe Thr Pro Lys Ser Ser Val Tyr Ser Ile Pro Phe		400
405	410	415
His Leu Gln Ile Trp Ala Leu Met Gln Arg Gln Phe Leu Ile Lys Trp		
420	425	430
Gln Asp Arg Phe Ala Gln Thr Val Ser Trp Ile Thr Ser Thr Gly Val		
435	440	445
Ala Ile Ile Leu Gly Thr Val Trp Leu Arg Leu Arg Lys Thr Ile Gly		
450	455	460
Arg Ser Ile Tyr Gln Gly Trp Phe Thr Leu His		
465	470	475

<210> 32062

<211> 493

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (30)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32062

Val Gln Phe Gly Cys Asp Cys Glu Lys Leu Leu Ala Gly Ala Phe Thr	
1	15
Arg Gly Gly Leu Leu Phe Ile Ser Leu Leu Phe Asn Gly Xaa Gln Ala	
20	30
Phe Ser Glu Leu Val Ser Thr Met Gly Arg Ser Ile Val Asn Lys	
35	45
His Arg Gln Phe Thr Phe Tyr Arg Pro Ser Ala Leu Trp Ile Ala Gln	
50	60
Ile Leu Val Asp Thr Thr Phe Ala Ile Ala Arg Ile Leu Val Phe Ser	
65	80
Ile Ile Val Tyr Phe Met Cys Gly Leu Val Leu Asp Ala Gly Ala Phe	
85	95
Phe Thr Phe Ile Leu Ile Ile Val Leu Gly Tyr Leu Cys Met Thr Cys	
100	110
Phe Phe Arg Val Ile Gly Cys Met Ser Pro Asp Phe Asp Tyr Ala Met	
115	125
Lys Phe Ala Ser Val Val Ile Thr Leu Phe Val Leu Thr Ser Gly Tyr	
130	140
Leu Ile Gln Trp Ser Ser Glu Gln Glu Trp Leu Arg Trp Leu Tyr Tyr	
145	160
Ile Asn Pro Phe Gly Leu Gly Phe Ala Ala Leu Met Val Asn Glu Phe	
165	175
Lys Asp Leu Thr Met Thr Cys Thr Ala Asp Ser Leu Val Pro Ser Gly	
180	190
Pro Gly Tyr Asp Asp Met Ala Ser Arg Val Cys Thr Leu Ala Gly Gly	
195	205
Glu Pro Gly Ser Val Ile Ile Pro Gly Ala Ser Tyr Leu Ala Lys Thr	
210	220
Phe Ser Tyr Phe Pro Gly Asp Leu Trp Arg Asn Phe Gly Ile Met Val	

12506

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225                230                235                240
Ala Leu Thr Val Gly Phe Leu Thr Leu Asn Leu Tyr Leu Gly Glu Thr
                245                250                255
Leu Gln Phe Gly Ala Gly Gly Arg Thr Val Thr Phe Tyr Gln Lys Glu
                260                265                270
Asn Lys Glu Arg Arg Ala Leu Asn Gly Ala Leu Met Glu Lys Arg Thr
                275                280                285
Asn Arg Glu Ser Lys Asp Gln Ser Ala Ala Asn Leu Lys Ile Thr Ser
                290                295                300
Lys Ser Val Phe Thr Trp Glu Asp Val Cys Tyr Asp Val Pro Val Pro
305                310                315                320
Ser Gly Thr Arg Arg Leu Leu Gln Ser Val Tyr Gly Tyr Val Gln Pro
                325                330                335
Gly Lys Leu Thr Ala Leu Met Gly Ala Ser Gly Ala Gly Lys Thr Thr
                340                345                350
Leu Leu Asp Val Leu Ala Ser Arg Lys Asn Ile Gly Val Ile Ser Gly
                355                360                365
Asn Ile Leu Val Asp Gly Ala Pro Pro Pro Gly Ser Phe Leu Arg Thr
                370                375                380
Val Ser Tyr Ala Glu Gln Leu Asp Ile His Glu Pro Met Gln Thr Val
385                390                395                400
Arg Glu Ala Leu Arg Phe Ser Ala Asp Leu Arg Gln Pro Tyr Glu Thr
                405                410                415
Pro Gln Ser Glu Lys Tyr Glu Tyr Val Glu Gly Ile Ile Gln Leu Leu
                420                425                430
Glu Leu Glu Asp Leu Ala Asp Ala Ile Ile Gly Thr Pro Glu Thr Gly
                435                440                445
Leu Ser Val Glu Glu Arg Lys Arg Val Thr Ile Gly Val Glu Leu Ala
                450                455                460
Ala Lys Pro Glu Leu Leu Phe Leu Glu Asn Leu Pro Val Ala Ser
465                470                475                480
Ser Ser Pro Gln Arg Ala Asp Arg Ser Glu Leu Ser Ile
                485                490

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<210> 32063

<211> 228

<212> PRT

<213> A.fumigatus

<400> 32063

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Leu Leu Asp Thr Tyr Thr Leu Lys Thr Ala Leu Ser Ser Leu Leu Pro
1                5                10                15
Ala Pro Ala Pro Ala Ser Phe Val Lys Arg Val Asn Ala Ser Phe Ser
                20                25                30
Lys Ile Glu Thr Leu Leu Lys Thr Leu Gln Val Gln Pro Ser Pro Pro
                35                40                45
Glu Ala Leu Val Gln Ala Tyr Leu Ile His Ile Ala Asp Arg Asn Asn
                50                55                60
Ala Asn Phe Arg Lys Ile Leu Asp Leu Lys Gly Ile Arg Ser Arg Gln
65                70                75                80
Glu Gln Asn Gln Leu Val Glu Leu Phe Gln Val His Arg Thr Ser Asp
                85                90                95
Arg Tyr Ala Ser Asn Leu Gln Gln Ser Asn Pro Val Leu Ala Ala Met
                100                105                110
Gln Thr Thr Pro Ala Leu Ser Ser Ser Ser Val Ser Gln Gly Leu Gly
                115                120                125

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12507

Leu Gly Ala Ala Ala Ser Ile Ser Ala Ser Asn Leu Pro Thr Arg Phe
 130 135 140
 Asp Pro Ser Met Leu Gly Ser Ala Leu Ile Ser Ala Ala Lys Asp Gly
 145 150 155 160
 Val Asp Arg Phe Gly Thr Pro Ser Ser Gly Thr Asn Pro Ser Ser Ser
 165 170 175
 Thr Gly Gly Val Ser Thr Pro Pro His Ser Gly Thr Thr Gly Gln Gly
 180 185 190
 Gln Gly Gln Gly Gly Glu Met Ser Ser Asn Leu Asn Glu Asn Leu Lys
 195 200 205
 Asn Ile Gly Lys Phe Phe Arg Arg Asp Leu Gly Gly Phe Gly Gly Arg
 210 215 220
 Phe Gly Gly Ser
 225

<210> 32064
 <211> 105
 <212> PRT
 <213> A.fumigatus

<400> 32064
 Leu Phe Asp Ala Phe Ser Ser Ala Ile Lys Thr Ile Thr Thr Val Ser
 1 5 10 15
 Leu Ala Leu Asn Tyr Pro Thr Leu Pro Ser Val Met His Ser Leu Ile
 20 25 30
 Asn Gly Tyr Lys Lys Val Leu Ala Val Ala Ile Glu Thr Asp Tyr Ser
 35 40 45
 Trp Pro Glu Ile Glu Glu Leu Lys Asp Arg Ile Ala Asn Pro Asp Ala
 50 55 60
 Tyr Ala Ala Ala Ala Pro Val Ala Ala Ala Pro Ala Ala Gly Gly Ala
 65 70 75 80
 Ala Pro Ala Ala Glu Lys Lys Glu Glu Ala Glu Glu Ser Asp
 85 90 95
 Glu Asp Met Gly Phe Gly Leu Phe Asp
 100 105

<210> 32065
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 32065
 Gly Gln Tyr Arg Asp Ser Leu Asn Gln Ser His Pro Val Ser Arg His
 1 5 10 15
 Gln Trp Leu Thr Asn Met Ala Ser Ile Gln Asn Phe Leu Leu Arg Arg
 20 25 30
 Ser Ser Asp Asp Leu Leu Tyr Ile Asp Tyr Leu Trp Gln Glu Ile Tyr
 35 40 45
 Gln Pro Phe Ser Val Leu Gln Ser Arg Leu Leu Phe Phe Arg Leu Ile
 50 55 60
 Ser Asp
 65

<210> 32066
 <211> 467
 <212> PRT

<213> A.fumigatus

<400> 32066

Leu Gly Leu Leu Asn Ala Asp Leu Phe His Thr Val Trp Phe Asn Gly
 1 5 10 15
 Gly Pro Gly Cys Ser Ser Leu Ile Gly Leu Met Thr Gly Asn Gly Pro
 20 25 30
 Val Leu Leu Asp Ser Asn Thr Thr His Val Ile Glu Asn Pro Gln Ser
 35 40 45
 Trp Thr Lys Leu Gly His Val Leu Tyr Val Asp Gln Pro Ala Gly Thr
 50 55 60
 Gly Phe Ser Thr Ala Ser Asn Pro Tyr Pro Val Arg Asp Asn Asp Arg
 65 70 75 80
 Val Thr Ser Asp Phe Tyr Lys Trp Leu Gln Ser Phe Phe Ser His Phe
 85 90 95
 Pro Asn Phe Arg Ser Lys Arg Val His Met Ile Gly Glu Ser Tyr Ala
 100 105 110
 Gly Ile Tyr Ile Pro Tyr Phe Ala Tyr Ala Ile Ala Glu Asn Gln Asp
 115 120 125
 Asn Tyr Pro Ile Asp Leu Arg Ser Ile Ser Leu Gly Asp Gly Thr Leu
 130 135 140
 Gly Asn Pro Ala Ala Met Thr Ala Val Thr Val Gly Thr Phe Leu Lys
 145 150 155 160
 Ser Arg Lys Ser Leu Leu Gln Ile Pro Gly Glu Ile Leu Ser Ala Phe
 165 170 175
 Thr Gln Ala Asp Gln Thr Cys Gly Phe Thr Thr Val Leu Gln Gln Gly
 180 185 190
 Ser Gln Phe Pro Pro Lys Gly Lys Phe Glu Ile Val Gly Asp Pro Glu
 195 200 205
 Asn Leu Asn Tyr Lys His Arg His Arg Arg His Arg Phe Gln Gln Asp
 210 215 220
 Gln Arg Arg Asn Leu Arg Asn Val Met Asn Glu Thr Cys Asn Asn His
 225 230 235 240
 Pro Thr Thr Pro Glu Gln Val Ser Ser Ser Ile Leu Asn Ser Thr Cys
 245 250 255
 Tyr Gly Ser Cys Ala Thr Tyr Ser Thr Ala Met Asn Tyr Leu Asn Ala
 260 265 270
 Val Ser Ala Ala Gly Thr Gly Lys Arg Cys Phe Asp Val Tyr Asp Ile
 275 280 285
 Thr Asn Asp Cys Thr Met Ile Asp Pro Leu Gly Leu Met Ala Ser Tyr
 290 295 300
 Leu Ser Arg Gly Asp Val Gln Ala Ala Leu Asn Leu Ser Pro Ala Pro
 305 310 315 320
 Ala Gly Leu Ala Phe Ala Pro Cys Asn Ser Thr Ile Leu Asp Thr Leu
 325 330 335
 Leu Leu Ala Val Pro Pro Thr Pro Pro Ala Tyr Thr Ile Leu Pro Ser
 340 345 350
 Leu Val Thr Glu His Asn Ile Ser Val His Val Tyr Ser Gly Asp Asn
 355 360 365
 Asp Leu Leu Leu Asn His Leu Gly Thr Glu Leu Val Leu Gln Asn Met
 370 375 380
 Thr Trp Gly Gly Ala Gln Gly Phe Ser Arg Lys Pro Ser Arg Ile Phe
 385 390 395 400
 Tyr Val Asp Asp Ala Ala Pro Ser Leu His Gly Ala Asp Ala Cys Asn
 405 410 415
 Val Ser Val Ser His Asp Ser Thr Gly Leu Ser Glu Gly Ala Gln Arg

12509

420 425 430
 Cys Val Pro Ala Gly Ile Trp Ala Ser Glu Arg Gly Val Thr Tyr His
 435 440 445
 Leu Phe Arg Gly Ala Gly Arg Leu His His Gly Ala Gly Arg Ile Ser
 450 455 460
 Gly Gly Gln
 465

<210> 32067
 <211> 60
 <212> PRT
 <213> A.fumigatus

<400> 32067
 Pro Ser Ser Ala Cys Gly Val Thr Phe Ile Leu Phe Leu Leu Ala Leu
 1 5 10 15
 Gln Ser Arg Gln Tyr Asn Ser Gln Leu Ile Glu Leu Ser Val Asn Leu
 20 25 30
 Cys Thr Leu Arg Thr Ser Leu Leu Ser Tyr Ser Ser Leu Ser Val His
 35 40 45
 Arg Arg Gly Gln Asn Val Val Cys Gln His His His
 50 55 60

<210> 32068
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 32068
 Leu Leu Asn Pro Ser Thr Thr Arg Ser Ala Glu Glu Ala Val Arg Asn
 1 5 10 15
 Lys Tyr Tyr Thr Leu Phe Pro Ser His Ser Tyr Ile Ile Leu Cys Thr
 20 25 30
 Leu Pro Ile Lys Leu Asp Pro Arg Lys Ile Ile Cys Ser Gly Lys Gly
 35 40 45
 Phe Ser Asn Tyr Ser Asn Ser Cys Phe Asn Arg Leu Ile Tyr Thr Phe
 50 55 60
 Arg Val Ser Gln
 65

<210> 32069
 <211> 118
 <212> PRT
 <213> A.fumigatus

<400> 32069
 Trp Arg Leu Cys Tyr Phe Ile Leu Leu Gly Thr Ser Ala Ile Lys Ile
 1 5 10 15
 Leu Ser Leu Phe Leu Asp Tyr Arg Ile Glu Thr Phe Phe Asn Phe Thr
 20 25 30
 Ala Ala Cys Met Gly Tyr Arg Ile Ile Thr Met Leu Leu Val Ala His
 35 40 45
 Ala Lys Leu Ser Pro Leu Ala Asn His Thr Leu Leu Ala Ser Thr Phe
 50 55 60
 Ile Lys Leu Val Ala Met Asn Thr Cys Arg Ala Leu Ile Tyr Ile Phe
 65 70 75 80

12510

Gln Val Pro Glu Arg Leu Gly Glu Leu Val Ser Ser Lys Leu Leu Leu
 85 90 95
 His Cys Met Val Val Tyr Ser Val Met Val Leu Thr Asp Asn Ile Leu
 100 105 110
 Thr Pro Ser Met Asp Ala
 115

<210> 32070

<211> 234

<212> PRT

<213> A.fumigatus

<400> 32070

Ser Ala Leu Ser Phe Leu Ser Pro Ser Val Arg His Ile Gly Ser Ala
 1 5 10 15
 Ser Asn Ser Gly His Ala Glu Leu Ala Gln Arg Asn Arg Lys His Tyr
 20 25 30
 Lys Trp Tyr Tyr Ser Thr Ala Ser Ala Ser Asn Glu Met Asn Leu Pro
 35 40 45
 Pro Gly Arg Leu His Glu Phe Leu Arg Gly Tyr Phe His Leu Lys Ser
 50 55 60
 Gly Ser Cys Ala Arg Asn Cys Pro Arg Pro Leu Lys Thr Trp Thr Ala
 65 70 75 80
 Asp Glu Leu Leu Gln Leu Pro Phe Tyr Tyr Ile Met Pro Leu Asp Ala
 85 90 95
 Thr Met Pro Glu Ala Ile Ala Leu Asp Met Glu Asn Glu Pro Glu Asn
 100 105 110
 Ala Gln Gln Leu Ser Gln Ala Trp Leu Pro Asp Ser Asp Leu Glu Val
 115 120 125
 Tyr Val Ala Glu Tyr Gly Arg Thr Gly Phe Gln Gly Gly Leu Asn Trp
 130 135 140
 Tyr Arg Val Arg Thr Ala Ala Asp Gly Arg Phe Thr Gln Asp Phe Asp
 145 150 155 160
 Thr Phe Ala Gly Lys Lys Ile Glu Val Pro Cys Ala Phe Val Ser Gly
 165 170 175
 Glu Met Asp Trp Gly Ile Tyr Gln Glu Pro Gly Ala Leu Glu Arg Met
 180 185 190
 Val Asn Gly Glu Val Cys Ser Asp Phe Lys Phe Leu Arg Leu Ile Glu
 195 200 205
 Gly Val Gly His Trp Ala Pro Gln Glu Ser Pro Glu Glu Val Ser Asn
 210 215 220
 Ala Ile Leu Arg Leu Val Arg Ser Val Glu
 225 230

<210> 32071

<211> 198

<212> PRT

<213> A.fumigatus

<400> 32071

Ala Cys Thr Gln Leu Met Tyr Asn Arg Leu Ile Phe Ala Gly Gly Gly
 1 5 10 15
 Met Pro Thr Thr Thr Asn Arg Thr Lys Trp Pro Val Gly Gly Gly Ala
 20 25 30
 Ile Ala Ile Gln Pro Gly Trp Phe Gln Gly His Gln Thr Ala Phe Ile
 35 40 45

12511

Tyr Ile Asn Leu Gly Leu Gly Thr Ile Pro Pro Asn Met Ser His Pro
 50 55 60
 Met Val Pro Pro Phe Gln Ile Thr Gly Pro Thr Asn Asp Pro Tyr Pro
 65 70 75 80
 Gly Thr Ile Cys Leu Pro Gln Val Pro Leu Pro Ala Asn Thr Ser Val
 85 90 95
 Lys Pro Gly Asp His Ala Thr Ile Gln Val Ile Glu Thr Ala Lys His
 100 105 110
 Gly Ala Ala Leu Tyr Asn Val Arg Ser Pro Leu Phe Ala Arg Trp Leu
 115 120 125
 Asn Leu Thr Met Met Gln Cys Val Asp Ile Glu Phe Ala Glu Pro Ser
 130 135 140
 Glu Val Glu Glu Val Thr Arg Asp Asn Cys Phe Asn Ser Ser Ile Ile
 145 150 155 160
 Ser Phe Gly Glu Val Phe Thr Thr Thr Ser Leu Thr Ser Ala Ala Ala
 165 170 175
 Pro Lys Ser Ser Leu Met Ser Val Leu Pro Val Tyr Met Val Ala Leu
 180 185 190
 Leu Ser Trp Ala Met Met
 195

<210> 32072

<211> 64

<212> PRT

<213> A.fumigatus

<400> 32072

Arg Thr Phe Leu Leu Gln Ile Tyr Ala Tyr Asp Lys Leu Ile Ser Pro
 1 5 10 15
 Lys Leu Tyr Trp Tyr Ile Val Tyr Asn Cys Ser Ala Ile Val His Glu
 20 25 30
 Ala Ser His Thr Trp Lys Pro Ser Ser Ala Leu Asp Lys Glu Gln
 35 40 45
 Gly Cys Ser Ala Glu Ala Ile Gln Thr His Ala Arg Glu Ser Ser Leu
 50 55 60

<210> 32073

<211> 354

<212> PRT

<213> A.fumigatus

<400> 32073

Ser Ser Val Ser Ser Leu Pro Gly Ser Asn Ala Arg Gly Glu Pro Val
 1 5 10 15
 Lys Leu Val Ser Gln Thr Leu Pro Tyr Pro Tyr Ser Ala Glu Lys Pro
 20 25 30
 Thr Pro His Arg Thr His Glu Gly Val Phe Ser Ser Leu Val Gln Val
 35 40 45
 Ile Gln Asn Arg Leu Arg Gln Gly Gln Ser Pro Tyr Ile Asn Val Thr
 50 55 60
 His Ala Val Pro Glu Gln Phe Ser Leu Thr Asn Leu Pro Thr Ser Pro
 65 70 75 80
 Pro Gly Ser Pro Arg Cys Met Leu Pro Asn Asn Asp Tyr Phe Asn Ala
 85 90 95
 Thr Val Phe Ser Ser Ala Ala Val Val Ser Ala Tyr His Asp Phe Arg
 100 105 110

12512

Gly Pro Ile Gln Met Lys Ala Pro Gln His Phe Pro Met Pro Ile Val
 115 120 125
 Pro Pro Gln Ser Val His Ile Ser Val Leu Glu Arg Tyr Ile Pro Pro
 130 135 140
 Ser Ser Ala Gln Glu Tyr Asn Asp Leu Phe Ser Pro Ser Arg Pro Ser
 145 150 155 160
 Phe Leu Val Asp Arg Leu Ser Glu Leu Ser Pro Asp Gly Gly Ser Leu
 165 170 175
 Leu Phe Ile Tyr Pro Thr Arg Arg Gly Gly Ser Ala Phe Lys Ser Gln
 180 185 190
 Tyr Leu Gly Pro Ile Leu Asp Pro Leu Leu Arg Gln Leu Val Val Val
 195 200 205
 Asn Glu Leu Ser Ala Asp Ile Gly Arg Tyr Leu Gly Lys Leu Ser Ser
 210 215 220
 Val Ser His Met Glu Asp Phe Asp Thr Leu Lys Asn Asn Leu Ser Met
 225 230 235 240
 Leu Cys Arg Ala Leu Ser Ser Ser Ser Ser Gln Phe Ser Ile Val Asp
 245 250 255
 Ala Arg Lys Gly Ser Ala Tyr Leu Asp Arg Asp Leu Trp Thr Glu Trp
 260 265 270
 Tyr Ile His Gln Glu Lys Ala Arg Met Lys Glu Val Leu Ser Leu Tyr
 275 280 285
 Cys Gln Asn Gly Arg Arg Phe Ser Thr His Lys Ala Thr Ser Ser Ser
 290 295 300
 Ile Ala Asn Thr Tyr Ile Leu Ala Ala Asp Lys Glu Val Thr Ser Ala
 305 310 315 320
 Met Leu Leu Ser Glu Ile Ile Asp Gly Ile Arg Arg Arg Pro Tyr Glu
 325 330 335
 Ser Glu Pro Arg Asp Gly Ile Glu Leu Gly Val Phe Val Ile Arg Arg
 340 345 350
 Ser Gln

<210> 32074

<211> 404

<212> PRT

<213> A.fumigatus

<400> 32074

Glu Tyr Ser Pro Phe Ser Phe Ala Ser Gly Ala Cys Gly Ser Leu Leu
 1 5 10 15
 Arg Lys Glu Lys Pro Ile Ser Ala Trp Thr Phe Cys Ser Met Asn Pro
 20 25 30
 Cys Phe Ile Thr Ile Ser Val Thr Gly Ala Gln Trp Cys Ala His Thr
 35 40 45
 Phe Ser Val Ser Tyr Val Gly Gly Cys Val Gly Leu Met Gly Ser Pro
 50 55 60
 Arg Arg Leu Thr Arg Lys Tyr Lys Pro Ser Gly Ile Arg Ala Ser Ala
 65 70 75 80
 Leu Gly Ser Leu Thr Ile Asn Ile Ile Cys Ser Thr Ile Tyr Glu Thr
 85 90 95
 Leu Trp Asn Arg Leu Gln Arg Val Trp Ser Tyr Tyr Arg Asp Phe Gln
 100 105 110
 Ala Asn Ala Glu Arg Gly Leu Lys Pro Pro Leu Ser Ser Ala Pro Cys
 115 120 125
 Ser Pro Ala Pro Gly Arg Arg Ile Ile Ile Ile Arg Cys Asp Asn His

12513

130		135		140
Ile Thr Pro Pro Ser Leu Phe Val Ser Phe Asp Arg Val Val Pro Pro				
145		150		155
Ala Pro Thr Glu Leu Thr Val Gly Ser Lys Gly Asp Asp Phe Ser Glu				160
	165		170	175
Ser Gln Ala Ala Pro Lys Arg Arg Trp Asn Leu Leu Lys Ala Met Phe				
	180		185	190
Gly Ser Ser Ser Ser Ile Arg Asn Asn Asp Asp Ala Ser Pro Pro Ser				205
	195		200	
Thr Ser Ser Glu Asp Ser Asp Ser Arg Ser His Asp Thr Met Asn Gly				
	210		215	220
Thr Glu Lys Asn Ser Asp Asp His Leu Arg Pro Gln Asn Gly Thr Gly				
225		230		235
Glu Ser Ser Arg Pro Lys Thr Pro His Gln Pro Tyr Thr Phe Lys Phe				240
	245		250	255
Ser Leu Glu Trp Met Asp Arg Pro Gln Trp Pro Ser Lys Asn Lys Arg				
	260		265	270
Leu Tyr Gly Pro Cys Leu Pro Val Gly Ala Gln Leu His Leu Gln Leu				
	275		280	285
Arg Gly Tyr Leu Asp Arg Pro Val Asp Asp Ala Ser Glu Tyr Ala Ser				
	290		295	300
Ala Ile Asp Phe Asp Glu Arg Glu Lys Thr Asp Cys Arg Leu Glu Asp				
305		310		315
Ala Ala Ser Asp Lys Glu Ile Gln Gly Pro Ala Gln Asp Ala Ala Asp				320
	325		330	335
Gly Gly Lys Thr Leu Gly Leu Arg Asn Thr Arg Cys Leu Ala Lys Asp				
	340		345	350
Gly Val Val Ala Ser Lys Tyr Ala Gly Arg Ala Leu Ala Glu Trp Ala				
	355		360	365
Gln Ile Val Thr Glu Cys Asp Ser Phe Phe Ala Arg Arg Asp Glu				
	370		375	380
Gly Val Pro Cys Asp Arg Met Val Glu Thr Pro Met Leu Gly Val Glu				
385		390		395
				400
Gly Phe Arg Lys				

<210> 32075

<211> 428

<212> PRT

<213> A.fumigatus

<400> 32075

Ala Thr His Glu Tyr Ser Arg Ala Ala Ser Phe Gln Pro Arg Gly Glu	
1	5
Asp Ser Asp Ser Ser Gly Ser Asp Phe Leu Ile Glu Ser Ile His His	10
	15
	20
Asn Ile Arg Asn Ile Phe Val Gln Asn Leu Leu Ser Gln Met Ala Phe	25
	30
	35
Val Val Glu Arg Met Ser Met Arg His Ala Pro Ala Ser Leu Val Ala	40
	45
	50
Phe Cys Gly Lys Ala Cys Ala Tyr Ala Phe Phe Phe Cys Pro Gly Val	55
	60
	65
Ala Asp Ile Leu Val Arg Leu Trp Asn Thr Pro Ala Ser Ile Phe Arg	70
	75
	80
	85
Arg Ile Leu Ala Asp Ser Gly Val Glu Arg Cys Arg Asn Ile Arg Ala	90
	95
	100
	105
	110

12514

Phe Thr Gln Asp Leu Gly Leu Asn Phe Pro Ile Ala Leu Arg Thr Leu
 115 120 125
 Cys Phe His Ser His Thr Pro Leu Val Arg Tyr Leu Arg Gln Lys Pro
 130 135 140
 Asp Val Pro Leu Ser Thr Ala Gln Ile Gln Trp Gln Ser Pro Trp Val
 145 150 155 160
 Ser Arg Trp Cys Gly Arg Asp Thr Asp Leu Phe Phe Val Phe Val Lys
 165 170 175
 Tyr Ile His Ile Leu Tyr Ala Asp Ala Leu Pro Thr Asp Ile Glu Lys
 180 185 190
 Pro Lys Arg Ile Leu Ala Pro Gly Leu Leu Pro Ile His Ala Gln Val
 195 200 205
 Leu Val Val Met Glu Asp Thr Leu Tyr Lys Gln Ser Ser Pro Gln Met
 210 215 220
 Pro Glu Ser Thr His Thr Ala Ala Ala Ile Thr Phe Asp Asp Phe Ile
 225 230 235 240
 Glu Gly Ala Asp Ala Thr Val Ser Ala Leu Pro Leu Gly Ser Ala Asn
 245 250 255
 Ser His Arg Ser Met Ala Glu Asn Arg Leu Ile Ile Leu Leu Arg Asp
 260 265 270
 Phe Leu Ser Glu Ser Ser Leu Glu Pro Gln Arg Ala Arg Leu Leu Tyr
 275 280 285
 Ala Glu Ser Phe Cys Asn Ile Met Lys Ala Ala Ala Gln Lys Thr Ser
 290 295 300
 Leu Phe Asp His Asn Ala Cys Phe Leu Leu Cys Asp Phe Val Glu Glu
 305 310 315 320
 Val Leu Pro Ile Leu Thr Arg Tyr Ser Gln Ala Val Asp Met Glu Leu
 325 330 335
 Phe Asp Trp Lys Phe Trp Leu Ser Ala Cys Arg Gln Met Met Arg Ser
 340 345 350
 His Asn Ser Leu Thr Glu Val Arg Val Phe Ser Phe Leu Phe Cys Val
 355 360 365
 Trp Gly Met Trp Ile Thr Ser Glu Glu Arg Lys Ala Asp Leu Cys Leu
 370 375 380
 Asp Phe Leu Leu Asp Glu Ser Leu Phe Tyr His Tyr Phe Ser His Trp
 385 390 395 400
 Ser Pro Met Val Arg Ala Tyr Phe Gln Arg Leu Leu Cys Trp Arg Val
 405 410 415
 Cys Arg Phe Asn Gly Glu Pro Ser Pro Leu Asp Ser
 420 425

<210> 32076

<211> 231

<212> PRT

<213> A.fumigatus

<400> 32076

Asp Lys Thr Ser Lys Ser Ser Cys Glu Phe Thr Ser Gly Tyr Gly Val
 1 5 10 15
 Ala Tyr Lys Pro Asn Val Phe Asn Trp Ser Pro Ser His Pro Ala Gln
 20 25 30
 Ser Pro Leu Phe Asp Ile Pro Gly Ile Lys Leu Thr Pro Gly Arg Ala
 35 40 45
 Phe Thr Pro Thr Thr Val Thr Arg Leu Ala Asp Ala Asn Phe Val His
 50 55 60
 Leu Glu Gln Glu Ile Pro Ala Asn Gly Ala Phe Arg Ile Phe Ile Phe

12515

65				70					75				80		
Ala	Gly	Lys	Gln	Ala	Asn	Thr	Lys	Lys	Ala	Ile	Thr	Asp	Phe	Gly	Ala
				85					90					95	
Asn	Leu	Glu	Lys	Glu	Arg	Ser	Phe	Leu	Ser	Ser	Tyr	Arg	Arg	Ile	Asp
			100					105					110		
Glu	Ile	Ser	Phe	Phe	Glu	Arg	His	Leu	Pro	His	Ser	Lys	Leu	Phe	Ser
		115					120					125			
Ile	Cys	Leu	Ile	Tyr	Ala	Ala	Gln	Lys	Asn	Glu	Val	Asp	Val	Glu	Ala
	130						135				140				
Ile	Pro	Gln	Ile	Leu	Arg	Asp	Tyr	His	His	His	Ile	Tyr	Ala	Asp	Asp
145					150					155				160	
Ile	Pro	Asp	Val	Arg	Val	Pro	Leu	Ala	Lys	Phe	Ala	Ala	His	Glu	Lys
			165						170					175	
Leu	Gly	Phe	Asp	Pro	Glu	Lys	Gly	Gly	Val	Val	Val	Thr	Arg	Pro	Asp
		180					185						190		
Ser	His	Val	Ala	Cys	Thr	Val	Gln	Leu	Val	Glu	Gly	Ser	Gly	Thr	Val
	195						200					205			
Asp	Ala	Leu	Asn	Ala	Tyr	Phe	Asn	Ser	Phe	Ser	Thr	Lys	Pro	Leu	Gly
	210					215					220				
Gln	Asp	Gln	Gln	Ser	Arg	Leu									
225					230										

<210> 32077

<211> 64

<212> PRT

<213> A.fumigatus

<400> 32077

Val	Tyr	Ser	Arg	Ser	Ser	Ser	Gln	Ala	Arg	Phe	Leu	Thr	Met	Asp	Ala
1			5						10					15	
Gln	Gly	Glu	Trp	Glu	Ala	Lys	Gly	Ile	Asp	Ser	Ser	Thr	Pro	Phe	Thr
		20					25						30		
Gly	Ile	Asp	Leu	Ser	Glu	Gly	Glu	Trp	Tyr	Asp	Tyr	Asp	Glu	Lys	Ala
	35					40					45				
Gly	Glu	Glu	Val	Ser	Ile	Lys	Glu	Ile	Lys	Trp	Glu	Val	Gly	Arg	Gly
	50					55					60				

<210> 32078

<211> 78

<212> PRT

<213> A.fumigatus

<400> 32078

Asp	Asp	Thr	Val	Ser	Ser	Ser	Asn	Lys	Phe	Thr	His	Pro	Ile	Val	Ile
1			5						10					15	
Ile	Leu	Gly	Pro	Arg	Gly	Ile	Val	Ser	Arg	Cys	Phe	Leu	Ser	Ile	Val
		20					25					30			
Ala	Ile	Val	Ala	Phe	Arg	Ser	Ala	Arg	Gly	Val	Cys	Arg	Val	Cys	Arg
	35					40					45				
Val	Ser	Ala	Ile	Asp	Asn	Ser	Leu	Pro	Ala	Val	Ser	Asn	Ala	Ala	Leu
	50					55				60					
Ile	Pro	Leu	Ser	Ser	Gly	Ala	Leu	Cys	Phe	Pro	Pro	Pro	Gly		
65					70					75					

<210> 32079

<211> 90

<212> PRT

<213> A.fumigatus

<400> 32079

```

Asp Val Leu Cys Lys His Asn His Asn Cys Cys Gly Phe Ser Phe Leu
1           5           10           15
Asp Glu Ser Lys Asn Thr Asp Leu Ile Arg Trp Ser Asp Asp Gly Asn
          20           25           30
Ser Phe Ile Val Leu Asp Glu Asp Glu Phe Ala Lys Thr Leu Ile Pro
          35           40           45
Glu Leu Phe Lys His Asn Asn Tyr Ala Ser Phe Val Arg Gln Leu Asn
          50           55           60
Met Tyr Gly Phe His Lys Lys Val Gly Leu Ser Asp Asn Ser Met Arg
65           70           75           80
Ala Ser Glu Arg Lys Asn Leu Pro Thr Gly
          85           90

```

<210> 32080

<211> 87

<212> PRT

<213> A.fumigatus

<400> 32080

```

Ser Arg Ile Gly Arg Gln Ser Pro Lys Ala Leu Val Asn Asp Val Val
1           5           10           15
Ser Pro Thr Glu Asp Ala Gln Trp Asp Val Glu Ser Arg Ile Ser Glu
          20           25           30
Pro Asp Thr Glu Ser Gly Thr Gly Glu Met Lys Leu Lys Met Lys Arg
          35           40           45
Tyr Leu Glu Gly Phe Pro Phe Pro Tyr Tyr Leu Val Arg Asp Val
          50           55           60
Arg Glu Leu Pro Ala Val Leu Ala Thr Ala Leu Lys Gln Trp Phe Ala
65           70           75           80
Glu Val Val Asp Val Ser Ser
          85

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<210> 32081

<211> 753

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (91)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32081

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Ala Gln Val Leu Gly Gly Phe Phe Ser Val Pro Thr Asp Glu Ser Ser
1           5           10           15
Trp Ser Pro Arg Leu Lys Leu Tyr Phe His Ala Val Thr Gln Cys Gln
          20           25           30
Ala Arg Thr Lys Asn Thr Pro Leu Gly Thr Val Met Val Thr Asp Leu
          35           40           45
Ser Ser Phe Pro Phe Ala Leu Thr Val Ile Pro Val Pro Asp Gly Asp
          50           55           60
Ile Leu Arg His Lys Glu Asp Phe Ile Val Asn Glu Asn Leu Lys Arg

```

65					70					75				80	
Phe	Ser	Cys	Ala	Gly	Arg	Ala	Gly	Leu	Lys	Xaa	Gln	Pro	Pro	Ser	Pro
				85					90					95	
Ala	Thr	Val	Ala	Lys	Phe	Tyr	Gln	Leu	Tyr	Arg	Thr	Ser	Glu	Arg	Val
			100					105					110		
Pro	Val	Tyr	Ser	Ala	Val	Met	Glu	Leu	Val	Lys	Gln	Cys	Gln	Ile	Ala
		115					120					125			
Leu	Ser	Met	Phe	Gly	Leu	Leu	Ala	Pro	Glu	Tyr	Val	Asp	Gly	Leu	Leu
	130					135					140				
Cys	Asp	Val	Thr	Glu	Thr	Ala	Ile	Asn	Asp	Trp	Trp	Thr	Glu	Phe	Gly
145					150					155					160
Ile	Asp	Leu	Tyr	Asn	Ile	Glu	Pro	Ser	Asp	Gly	Val	Leu	Gly	Pro	Thr
			165						170					175	
Thr	Val	Ala	Ala	Leu	Leu	Gly	Thr	Phe	Met	Gly	Ala	Arg	Asn	Arg	Leu
		180						185					190		
His	Ala	Phe	Gly	Ala	Pro	Val	Gly	Lys	Asp	Ala	Phe	Asp	Ile	Arg	Ser
	195						200					205			
Leu	Lys	Arg	Ala	Ile	Glu	Ser	Phe	Gln	Lys	Ser	Gln	Lys	Met	Glu	Arg
	210					215					220				
Thr	Arg	Arg	Leu	Asp	Arg	Gln	Thr	Leu	Asp	Arg	Leu	His	Arg	Val	Thr
225					230					235					240
Ala	Lys	Ala	Ala	Asn	Ala	Glu	Gly	Trp	Thr	Asp	Ala	Val	Lys	Ser	Thr
			245					250					255		
Met	Ala	Glu	Leu	Ser	Gly	His	Gly	Gly	Glu	Met	Val	Met	Gly	Met	Val
		260					265						270		
Arg	Gly	Arg	Glu	Lys	Gly	Gly	Ile	Ala	Asp	Ile	Glu	Thr	Leu	Glu	Leu
	275					280					285				
Asp	Asp	Phe	Ala	Ser	Leu	Val	Thr	Gly	Glu	Arg	Ala	Lys	Trp	Leu	Trp
	290				295					300					
Arg	Gly	Lys	Pro	Arg	Lys	Ser	Gly	Leu	Gly	Asp	Gly	Phe	Ala	His	Asp
305					310					315					320
Gln	Pro	Ala	Ala	Asp	Met	Met	Phe	Asn	Arg	Asp	Glu	Gln	Gly	Asn	Tyr
			325						330					335	
Val	Trp	Thr	Ser	Arg	Lys	Arg	His	Ser	Tyr	Glu	Asp	Leu	Ala	Gly	Asp
		340						345					350		
Arg	Ser	Leu	Gln	Gly	Ser	Asp	Arg	Pro	Trp	Arg	Gln	Pro	Asp	Thr	Gly
	355					360						365			
Ala	Ala	Pro	Asp	Glu	Lys	Asp	Gln	Asn	Leu	Ser	Arg	Met	Val	Arg	Arg
	370					375					380				
Gly	Val	Ser	Gly	Lys	Val	Ser	Asp	Ala	Arg	Ile	Gly	Phe	Gly	Arg	Phe
385					390					395					400
Lys	Glu	Ala	Val	Gly	Leu	Pro	Ser	Leu	Arg	Ser	Gln	His	Lys	Ser	Thr
			405						410					415	
Lys	Asp	Gly	Ala	Glu	Leu	Met	Gly	Asp	Ala	Ala	Tyr	Met	Pro	Ala	Ile
		420					425						430		
Glu	Ser	Asp	Ala	Glu	Met	Pro	Val	Leu	Lys	Thr	Gln	Ala	Asp	Ala	His
	435					440						445			
Leu	Thr	Asp	Gln	Glu	Ser	Ile	Ser	Glu	Pro	Gln	Asp	Gln	Ala	Arg	Phe
	450					455					460				
His	Ala	Val	Lys	Ala	Glu	Gln	Pro	Ala	Ser	Thr	Ser	Gly	Pro	Thr	Val
465					470					475					480
Ser	Glu	Leu	Glu	Pro	Pro	Lys	Ile	Thr	Val	Asp	Ser	Pro	Arg	Asp	Asn
			485						490				495		
Glu	Lys	Thr	Glu	Ser	Ala	Arg	Lys	Thr	Ser	Thr	Ser	Gln	Leu	Glu	Glu
			500					505					510		
Asp	Glu	Ser	Asp	Leu	Gly	Arg	Ser	Arg	Thr	Arg	Ser	Thr	Asp	Ala	Ser

12518

515 520 525
 Val Ser Gln Asp Glu Leu Ser Arg Val Asp Leu Met Leu Leu Arg Arg
 530 535 540
 Pro Gln Ser Phe Ile Glu Ser Ser Thr Thr Asp Asp Ser Glu Arg Arg
 545 550 555 560
 Ser Asn Gly Trp Pro Arg His Leu Ser Phe Ser Ile Val Glu Asp Val
 565 570 575
 Val Leu Gly Trp Glu Ser Leu Gly Gly Arg Glu Ala Leu Gln Pro Lys
 580 585 590
 Pro Asp Ala Thr Leu Glu Gln Ala Val Ala Leu Glu Asp Thr Leu Ala
 595 600 605
 Ser Asp Val Arg Ile Phe Ser Ser Lys Ile Glu Glu Leu Ser His His
 610 615 620
 Thr Val Pro Trp Val Glu Lys Gln Val Asn Ser Val Asp Glu Leu Asn
 625 630 635 640
 Arg Lys Leu Tyr Glu Ser Gln Glu Asn Ile Asn Ser Ile Tyr Leu Asp
 645 650 655
 Gln Val Glu Lys Tyr Gln Gln Met Arg Glu Arg Ser Ser Glu Leu Leu
 660 665 670
 Thr Glu Glu His Asn Tyr Leu Val Asp Thr Met Lys Arg Val Glu Met
 675 680 685
 Met Gly Ala Lys Leu Asp Tyr Glu Leu Asp Ile Leu Glu Ser Lys Val
 690 695 700
 Glu Asp Val Glu Ser Gly Leu Gly Glu Phe Glu Arg His Val Val Glu
 705 710 715 720
 Leu Glu Thr Arg Met Lys Gly Leu Ile Lys Asn Glu Glu Glu Lys Gln
 725 730 735
 Asn Asn Ser Trp Leu Ser Leu Leu Gly Arg Phe Leu Gly Leu Ser Ser
 740 745 750
 Arg

<210> 32082

<211> 108

<212> PRT

<213> A.fumigatus

<400> 32082

Arg Leu Asp Glu Ile Val Asn Gly Ser Ala Asp Gly Ser Phe Pro Gly
 1 5 10 15
 Leu Ile Pro Leu Val Glu Ser Tyr Leu Asn Ser Val Asn Val Asp Val
 20 25 30
 Glu Thr Arg Cys Ser Leu Ala Thr Tyr Leu Asp Leu Ile Arg Lys Arg
 35 40 45
 Ala Asn Gly Thr Leu Trp Thr Gly Ala Arg Trp Ile Arg Glu Phe Val
 50 55 60
 Ala Ser His Pro Ser Tyr Lys Gln Asp Ser Val Val Ser Glu Glu Ile
 65 70 75 80
 Cys Tyr Asp Leu Val Lys Ala Val Glu Glu Met Thr Val Lys Glu Gly
 85 90 95
 Arg Asp Gly Ser Val Gly Trp Gln Leu Leu Arg Gly
 100 105

<210> 32083

<211> 211

<212> PRT

<213> A.fumigatus

<400> 32083

Trp Asn Ser Arg Gly Asn Val Asp Leu Arg Ser Asn Glu Gly Leu Ser
 1 5 10 15
 Pro Glu Pro Ala Ala Leu Cys His Ser Leu Ala Gln Val His Thr Ala
 20 25 30
 Gln Ala Gln Lys Ser Ser Phe Arg Phe Tyr Thr Ser Thr Ser Asn Gln
 35 40 45
 Phe His Lys Ser Thr Met Cys Trp Thr Leu Pro Asn Gln Ser Gln Arg
 50 55 60
 Gln Ser Asp Ala Ser Thr Ser Thr Ala Cys Asn Leu Thr Glu Glu Val
 65 70 75 80
 Asp Ala Ile Val Thr Val Thr Lys Gly Phe Leu Ser Ala Leu Glu Thr
 85 90 95
 Lys Ser Arg Asp Asp Phe Asp Lys Tyr Cys Val Lys Ala Gly Gly Met
 100 105 110
 Ala Leu Trp Pro Pro Pro Ser Val Pro Arg Phe Cys Thr Ile Gly
 115 120 125
 Ala Phe Val Glu His Ile Ser Lys Ile Lys Asp Asp Ile Asp Glu Arg
 130 135 140
 Met Trp Asp Pro Glu Val Lys Val His Glu Ser Ala Asn Leu Ala Ala
 145 150 155 160
 Val Trp Ala Pro Phe Arg Ala Lys Ile Asn Gly Val Val Asp His Val
 165 170 175
 Gly Val Glu Leu Phe Val Leu His Lys Ile Asn Gly Gly Trp Lys Val
 180 185 190
 Thr Gly Leu Ala Asp Ser Cys Arg Arg Pro Thr Asp Asp Glu Lys Ile
 195 200 205
 Ser Leu Val
 210

<210> 32084

<211> 111

<212> PRT

<213> A.fumigatus

<400> 32084

Ile Arg Ala Gly Ala Phe Leu Thr His Cys Leu Leu Leu Gln Asp Asn
 1 5 10 15
 Val Gly Leu Thr Ala Asn Thr Ser Ser Leu Val Gly Gly Val Ile Gln
 20 25 30
 Ile Met Phe Val Ile Gly Arg Ile Tyr Leu Asp Ile Phe Val His Lys
 35 40 45
 Thr Gln Asn Ile Asn His Ile Ala Leu Gly Ser Leu Tyr Pro Thr Leu
 50 55 60
 Tyr Ala Asp Arg Leu Gly Arg Leu Asn Pro Met Trp Gly Ser Phe
 65 70 75 80
 Gly Leu Cys Ser Cys Phe Leu Met Leu Ala Ile Leu Ser Ser Phe Glu
 85 90 95
 Arg Ile Phe Lys Ser Pro Phe Arg Ala Leu Gln Arg Phe Asn Val
 100 105 110

<210> 32085

<211> 65

<212> PRT

<213> A.fumigatus

<400> 32085

```

Ser Ser Asn Ser Asn Arg Gln Ser Ile Gly Val Ser Ala Asn Trp Leu
1          5          10          15
Trp Asn Phe Phe Val Ala Met Ile Thr Pro Ile Leu Leu Glu Lys Leu
          20          25          30
Arg Trp Lys Thr Tyr Leu Ile Phe Met Cys Leu Asn Phe Ser Phe Ile
          35          40          45
Pro Val Ser Gly Ala Asp Tyr Pro Ser Pro Leu Thr Leu Thr Val Met
          50          55          60
Tyr
65

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<210> 32086

<211> 60

<212> PRT

<213> A.fumigatus

<400> 32086

```

Ile Glu Ala Ile Ala Asn Val Val Leu Val Phe Thr Glu Leu Val Gly
1          5          10          15
Ser Lys His Asp Ile Ser Glu Asp Pro Ile Val Thr Val Pro Ser Glu
          20          25          30
Thr Ile Tyr Leu Gly Gly Ile Asp Leu Tyr Leu Thr Ser Lys Asp Ile
          35          40          45
Leu Ala Glu Pro Phe Phe Glu Leu Ile Ser Thr Ser
          50          55          60

```

<210> 32087

<211> 71

<212> PRT

<213> A.fumigatus

<400> 32087

```

Lys Asp Asp Asn Pro Leu Asp Leu Ser Glu Pro Phe Arg Glu Leu Cys
1          5          10          15
Glu Ala Cys Arg Lys Gly Asp Leu Lys Val Cys Gln Glu Lys Ile Thr
          20          25          30
Glu Gly Val Asn Val Asn Ala Arg Asp Pro Tyr Asp Tyr Thr Pro Leu
          35          40          45
Ile Val Val Ser Lys Leu Ser Leu Glu Asp Arg Arg Asn Val Lys Pro
          50          55          60
Gly Ser Leu Pro Leu Ser Leu
65          70

```

<210> 32088

<211> 321

<212> PRT

<213> A.fumigatus

<400> 32088

```

Ser Ser Arg Thr Asn Thr Arg Phe His Cys Arg Cys Leu Tyr Asn Ala
1          5          10          15
Leu Asn Asp Arg Ile Arg Asn Leu Leu Leu Glu Tyr Asp Tyr Ser Lys
          20          25          30

```

12521

Ser Thr Asp Pro Leu Gln Pro Leu Ala Ala His Val Ser Ser Leu Leu
 35 40 45
 Thr Arg Asp Gln Pro Gly Thr Ser Asp Ile Val Val Thr Ala Gly Asp
 50 55 60
 Glu Ser Leu Tyr Leu His Lys Phe Ile Leu Ala Ala Arg Ser Pro Tyr
 65 70 75 80
 Phe Arg Gly Lys Leu Val Ala Asp Pro Lys Ser Thr Thr Trp Lys Leu
 85 90 95
 Pro Ser Thr Ile Pro Pro Gln Ala Phe Gly Thr Ala Ile Lys Tyr Leu
 100 105 110
 Tyr Phe Gly Glu Ala Pro Arg Asp Leu Arg Ser Gly Pro Gly Thr Gly
 115 120 125
 Phe Thr Glu Ser Glu Val Phe Ala Gly Ile Asp Arg Ile Ser Lys His
 130 135 140
 Leu Glu Ile Pro Ser Leu Leu Asp Ser Ile Leu Asp Ser Gly Asp Arg
 145 150 155 160
 Arg Leu Ala Arg Gln Arg Arg Ser Met Glu Leu Ser Arg Gly Arg Asp
 165 170 175
 Gln Leu Glu Glu Trp Phe Arg Lys Asn Val Leu Gly Ser Lys Ile Glu
 180 185 190
 Val Asn Ser Ser Lys Val Asp Gly Phe Arg Trp Asp Arg His Asn Gly
 195 200 205
 Ile Phe Ala Asp Val Val Leu Arg Ala Asp Glu Leu Arg Glu Asp Glu
 210 215 220
 Asp Asp Ile Cys Asp Gly Phe Asn Leu Asn Gly Lys Gln Gln Asp Arg
 225 230 235 240
 Lys Ser Val Leu Phe Pro Cys His Arg Ala Met Leu Leu Arg Ser Glu
 245 250 255
 Phe Phe Gln Ala Met Phe Ser Ser Thr Phe Arg Glu Ala His Leu Lys
 260 265 270
 Glu His Leu Asn Val Ile Pro Val Asp Cys Ser Pro Glu Val Leu Glu
 275 280 285
 Ile Val Leu Met Phe Leu Tyr Thr Glu Arg Ala Asp Phe Pro Leu Asp
 290 295 300
 Ile Ala Val Asp Val Leu Phe Ala Ala Asp Met Leu Phe Ile Gln Lys
 305 310 315 320
 Leu

<210> 32089

<211> 210

<212> PRT

<213> A.fumigatus

<400> 32089

Thr Lys Ala Pro Val Val Ile Ser Thr Leu Gly Ser Gly Glu Met Ser
 1 5 10 15
 His Ala Glu Ala Ala Met Thr Arg Gly Thr Asn Glu Glu Tyr Asp Ile
 20 25 30
 Asp Ile Tyr Ala Asn Ile Arg Ala Ala Trp Leu Thr Arg Val Gln Arg
 35 40 45
 Leu Glu Glu Phe Ala Ala Arg Tyr Leu Ala Tyr Arg Leu Glu Ala His
 50 55 60
 Ile Asp Ser Pro Glu Phe Ala Glu Leu Ile Gln Glu Ser Ala Ala Arg
 65 70 75 80
 Ile Lys Ala Ser Gln Glu Thr Asp Ser Ile Glu Leu Leu Asp Asp Ile

12522

				85					90					95	
Arg	Phe	Tyr	Leu	Gly	Glu	Arg	Phe	Arg	Leu	Arg	Phe	Asp	Asp	Ala	Gly
			100					105					110		
Leu	Glu	Glu	Met	Met	Glu	Glu	Glu	Gln	Arg	Gln	Gln	Leu	Ala	Asp	Ser
		115					120					125			
Ser	Gly	Val	Asp	Lys	Asp	Leu	Val	Glu	Ile	Thr	Asp	Lys	Val	Asp	Thr
	130					135					140				
Met	Gly	Ile	Gln	Ser	Gln	Thr	Leu	Pro	Ile	Gly	Ala	Glu	Ala	Glu	Val
145					150					155				160	
Thr	Pro	Gly	Glu	Met	Ile	Arg	Glu	Gln	Gly	Pro	Ile	Ile	Arg	Thr	Leu
				165					170					175	
Asp	Gly	Glu	Ile	Ala	Gly	Asp	Glu	Phe	Ser	Lys	Asp	Ala	Ile	Asn	Tyr
			180					185					190		
Gln	Ile	Leu	Met	Glu	Lys	Leu	Asp	Leu	Leu	Leu	Lys	Glu	Leu	Asn	Leu
		195					200					205			
Glu	Ala														
	210														

<210> 32090

<211> 62

<212> PRT

<213> A.fumigatus

<400> 32090

Ala	Gln	Thr	Asn	Ser	Asn	Tyr	Pro	Ser	His	Pro	Pro	Thr	Arg	Ala	Ala
1				5					10					15	
Val	Ile	Arg	Arg	Glu	Gln	Thr	Ile	Met	Leu	Ser	Val	Leu	Lys	Ala	Val
			20					25					30		
Leu	Ile	His	Glu	Lys	Val	Thr	Val	Glu	His	Glu	Leu	Glu	Asp	Asn	Ala
		35					40					45			
Ala	Cys	Ser	Leu	Ala	Gln	Ser	Met	Cys	Leu	Asn	Ser	Ser	Lys		
	50					55					60				

<210> 32091

<211> 108

<212> PRT

<213> A.fumigatus

<400> 32091

Ile	Ser	Cys	Gln	Phe	Phe	Phe	Gly	Val	Phe	Ala	Tyr	Gln	Ser	Glu	Lys
1				5					10					15	
Met	Ile	Phe	Trp	Arg	Gln	Trp	Leu	Gly	Leu	Lys	Ser	Val	Tyr	Gly	Tyr
			20					25					30		
Trp	Ser	Ala	Pro	Thr	Thr	Asn	Arg	Phe	Leu	Gly	Val	Lys	Glu	Ala	Ser
		35				40						45			
Gln	Ala	Leu	Ile	Gly	Leu	Phe	Pro	Ser	His	Thr	Val	Met	Ile	Phe	Ser
	50				55						60				
Pro	Ser	Leu	Ile	Asp	Thr	Leu	Val	Thr	Ser	Ile	Lys	Gly	Ala	Gly	Met
65				70					75					80	
Glu	Gly	Leu	Ile	Gly	Ala	Ile	Phe	Tyr	Glu	Pro	Asn	Arg	Ser	Phe	Glu
			85					90						95	
Leu	Ser	Thr	Leu	Ala	Glu	Ala	Glu	His	Gly	Leu	Phe				
			100				105								

<210> 32092

<211> 101

<212> PRT

<213> A.fumigatus

<400> 32092

```

Arg Leu Pro Arg Gln Ser Lys Tyr Trp Leu Ser Pro Gly Ile Ile Ser
1           5           10           15
Tyr Ala Asn Gln Phe Leu Arg Phe Asp Leu Phe Val Lys Tyr Gln Thr
          20           25           30
Lys Ile His Lys Glu Asp Val Ser Lys Trp Lys Gln Lys Asp Phe Lys
          35           40           45
Arg Phe Leu Cys Ser Gly Ile Lys Arg Ser Pro Ala Asp Ala Lys Ser
          50           55           60
Ala Gln Arg Lys Leu Gly Ser Trp His Gln Cys Tyr Arg Leu Asp Gly
65           70           75           80
Lys Leu Ile Ala Val Ala Val Leu Asp Leu Met Pro Ser Gly Val Ser
          85           90           95
Ser Val Tyr Ile Leu
          100

```

<210> 32093

<211> 121

<212> PRT

<213> A.fumigatus

<400> 32093

```

Glu Arg Asn Ala Asn Arg Ile Arg Asp Pro Glu Ser Tyr Thr Trp Asp
1           5           10           15
Pro Leu Asp Gly Glu Leu Thr Met Lys Leu Asn Glu Arg Arg Tyr Val
          20           25           30
Ser Leu Ser Arg Asp Arg Arg Leu Ala Ala Gln Gly Gln Pro Glu Ser
          35           40           45
Thr Glu Leu Asp Ser Ala Glu Glu Ile Asn Asp Glu Glu Met Ser
          50           55           60
Leu Phe Asp Leu His Met Pro Gly Val Met Thr Leu Asp Glu Val Lys
65           70           75           80
Thr Leu Asp Leu Asp His Ser Leu Leu Leu Val Gln Gly Ser Leu Ile
          85           90           95
His Met Met Val Arg Arg Ser Tyr Cys Arg Cys Ile Gln Ala Gly Leu
          100           105           110
Leu Thr Trp Leu Asp Ser Arg Ile Leu
          115           120

```

<210> 32094

<211> 281

<212> PRT

<213> A.fumigatus

<400> 32094

```

Arg Pro Pro His Ser Leu Pro Gln Ser Pro Ser Phe Arg Ile His Arg
1           5           10           15
Ala Ser Arg Ser Ser Ser Ser Arg Pro Ala Leu Ser Leu Asp Leu
          20           25           30
Ser Asn Leu Pro Ala Leu Ser Gln Pro Thr Pro Pro Ser Asn Thr Leu
          35           40           45
Leu Ile Thr Asp Leu His Asp Leu Tyr Leu Phe Gln Pro Ala Ser Leu
          50           55           60

```

12524

Ala Ser Ile Arg Ser Gln Ile Glu Ser Ile Ala Pro Leu Asn Ser Phe
 65 70 75 80
 Ser Pro Leu Pro Ser Leu Arg Arg Ile Val Cys Ser Phe His Ser Glu
 85 90 95
 Asp Asp Ala Leu Arg Val Arg Lys Leu Leu Asp Gly Gln Ser Leu Leu
 100 105 110
 Asn Arg Asn Val Cys Thr Lys Ile Tyr Phe Gly Glu Pro Thr Pro Leu
 115 120 125
 Leu Asp Glu Gly Arg Pro Lys Leu Leu Glu Ala Pro His Leu Asp Lys
 130 135 140
 Leu Phe Phe Ile Ser Pro Pro Pro Ser Pro Pro His Gly Trp Val Met
 145 150 155 160
 Arg Thr Glu Asp Pro Pro Asn Lys Glu Val His Ala Ser Asp Leu Ala
 165 170 175
 Gln Ala Leu Ala Gln Leu Lys Thr Glu Gln Ser Ala Pro Val Ser Gly
 180 185 190
 Pro Val Asp Pro Gly Thr Pro Met Ser Met Ser Asp Glu Lys Arg Thr
 195 200 205
 Gly Ser Trp Pro Ile Ala Met Ser Gly Gln Arg Ser Arg Ser Ser Thr
 210 215 220
 Leu Ile Tyr Asn Pro Glu Asp His Gly Gly Ser Pro Gly Leu Pro Ala
 225 230 235 240
 Val Met Val Glu Asp Thr Thr Val Asp Ser Asp Asp Glu Asp Ile Glu
 245 250 255
 Met Met Ser Pro Ile Asp Met Ser Val Arg Lys Leu Pro Pro Lys Thr
 260 265 270
 Ala Arg Pro Pro Val Glu Leu Met His
 275 280

<210> 32095

<211> 147

<212> PRT

<213> A.fumigatus

<400> 32095

Thr Pro Ser Pro Arg Ser Pro Pro Cys Gly Ala Ser Ser Ala Pro Phe
 1 5 10 15
 Thr Gln Lys Thr Thr Pro Ser Ala Ser Ala Asn Ser Ser Thr Ala Asn
 20 25 30
 Pro Ser Ser Thr Ala Thr Ser Ala Gln Arg Ser Thr Ser Ala Asn Pro
 35 40 45
 Pro Arg Ser Ser Thr Arg Val Ala Pro Asn Ser Ser Arg Pro Pro Thr
 50 55 60
 Ser Thr Ser Ser Ser Ser Ser Val Arg Pro Arg Ala Arg His Thr Ala
 65 70 75 80
 Gly Ser Cys Ala Pro Arg Ile Pro Pro Thr Arg Arg Ser Thr Pro Val
 85 90 95
 Ile Ser Pro Arg Arg Leu Arg Ser Ser Arg Arg Asn Asn Leu Leu Arg
 100 105 110
 Ser Gln Ala Pro Leu Thr Pro Gly Arg Pro Cys Arg Cys Leu Thr Arg
 115 120 125
 Ser Gly Arg Gly Ala Gly Pro Ser Pro Cys Gln Gly Ser Ala Val Gly
 130 135 140
 Val Val Arg
 145

<210> 32096
 <211> 173
 <212> PRT
 <213> A.fumigatus

<400> 32096

```

Lys Thr Thr Thr Leu Pro Ser Ser Ile Ala Leu Ile Pro His Pro Pro
1          5          10          15
Cys Leu Pro Leu Leu Leu Phe Ile Ala Pro Ser Ser Leu Thr Arg Pro
          20          25          30
Leu Gln Ser Ser Cys Ser Leu Thr Ala Asn Ser Ser Leu Lys His Ala
          35          40          45
Thr Asn Asn Arg Pro Pro Arg Pro Leu Pro Leu Ser Thr Gly Leu Pro
          50          55          60
Arg Leu His Pro Leu Pro Asp Arg Val His Arg Pro Pro Lys Leu Leu
65          70          75          80
Leu Pro Ala Pro Leu Leu Ala Ala His Arg Leu Leu Leu Ser Leu Arg
          85          90          95
Arg Arg Arg Pro Pro Arg Pro Gln Thr Pro Arg Arg Pro Ile Pro Pro
          100          105          110
Gln Pro Gln Arg Leu His Lys Asp Leu Leu Arg Arg Thr His Pro Ala
          115          120          125
Pro Arg Arg Gly Ser Pro Gln Thr Pro Arg Gly Pro Pro Pro Arg Gln
          130          135          140
Ala Leu Leu His Gln Ser Ala Pro Glu Pro Ala Thr Arg Leu Gly His
145          150          155          160
Ala His Arg Gly Ser Pro Gln Gln Gly Gly Pro Arg Gln
          165          170

```

<210> 32097
 <211> 131
 <212> PRT
 <213> A.fumigatus

<220>

<221> UNSURE

<222> (122)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32097

```

Ser Val Ser Ser Lys Phe Leu Ile Gly Tyr Thr Met Ser Glu Lys Ala
1          5          10          15
Arg Leu Lys Cys Thr Val Tyr Val Gly Gly Leu Asp Gln Ala Val Thr
          20          25          30
Val Gln Thr Leu Ala Glu Ala Phe Val Pro Phe Gly Glu Val Val Asp
          35          40          45
Ile Thr Leu Pro Lys Pro Asp Val Pro Asn Ser Gly Asp Leu His Arg
          50          55          60
Gly Phe Gly Tyr Val Glu Phe Asp Leu Pro Glu Asp Ala Ala Glu Ala
65          70          75          80
Ile Asp Asn Met Asp Gly Ser Glu Leu Tyr Gly Arg Thr Ile Lys Val
          85          90          95
Ala Ala Gly Lys Arg Lys Lys Glu Ser Thr Glu Gly Leu Glu Ser Lys
          100          105          110
Pro Val Ile Gly Ser Lys Val Asp His Xaa Asp Pro Ile Leu His Gly
          115          120          125

```

Arg Cys Ser
130

<210> 32098
<211> 64
<212> PRT
<213> A.fumigatus

<400> 32098
Ile Ser Leu Pro Gly Pro Phe Ser Gly Met Asn Asp Val Thr Cys Ile
1 5 10 15
Arg Arg Cys Phe Gly Glu Val Pro Met Glu Leu Ser Val Thr Pro Pro
20 25 30
Val Pro Leu Gln Lys Asp Thr Trp Leu Leu Glu Pro Lys Ala Ser Asp
35 40 45
Arg Ser Gly Leu Asp His Leu Leu Thr Tyr Lys Leu Leu Ser Val Tyr
50 55 60

<210> 32099
<211> 325
<212> PRT
<213> A.fumigatus

<400> 32099
Glu Glu Ser Arg Val Pro Thr Gln Trp Gly Asp Phe Tyr Trp Trp Glu
1 5 10 15
Lys Arg Gly Ser Leu Gly Ala Ser Pro Arg Phe Phe Leu Trp Asp His
20 25 30
Leu Phe Leu Trp Glu His Ser Asn Lys Tyr Pro Val Cys Phe Gly Gly
35 40 45
Ala Val Arg Ala Leu Met Pro Thr Pro Phe Asp Lys Gly Ile Gln Val
50 55 60
Asp Pro Leu Asp Phe Glu Gly Val Ala Gln Gly Gly Gln Thr Ile Pro
65 70 75 80
Thr Asp Asp Glu Asp Ala Glu Gly Asn Gly His Gly Thr His Cys Phe
85 90 95
Gly Thr Ile Ala Gly Arg Lys Tyr Gly Val Ala Lys Lys Ala His Leu
100 105 110
Tyr Ala Val Lys Val Leu Arg Ser Ser Gly Ser Gly Thr Met Ser Asp
115 120 125
Val Val Ala Gly Val Glu Trp Ala Val Lys Ser His Leu Lys Lys Val
130 135 140
Lys Asp Ala Lys Asp Gly Lys Ile Lys Gly Phe Lys Gly Ser Val Ala
145 150 155 160
Asn Met Ser Leu Gly Gly Gly Lys Ser Arg Thr Leu Glu Ala Ala Val
165 170 175
Asn Ala Gly Val Glu Ala Gly Leu His Phe Ala Val Ala Ala Gly Asn
180 185 190
Asp Asn Ala Asp Ala Cys Asn Tyr Ser Pro Ala Ala Ala Glu Asn Pro
195 200 205
Ile Thr Val Gly Ala Ser Thr Leu Gln Asp Glu Arg Ala Tyr Phe Ser
210 215 220
Asn Tyr Gly Lys Cys Thr Asp Ile Phe Ala Pro Gly Leu Asn Ile Leu
225 230 235 240
Ser Thr Trp Ile Gly Ser Lys His Ala Val Asn Thr Ile Ser Gly Thr
245 250 255

12527

Ser Met Ala Ser Pro His Ile Ala Gly Leu Leu Ala Tyr Phe Val Ser
 260 265 270
 Leu Gln Pro Ser Lys Asp Ser Ala Phe Ala Val Asp Asp Leu Thr Pro
 275 280 285
 Asn Lys Leu Lys Lys Asp Ile Ile Ala Ile Ala Thr Gln Gly Ala Leu
 290 295 300
 Thr Asp Ile Pro Ser Asp Thr Pro Asn Val Ser Tyr His Phe Gly Asp
 305 310 315 320
 Ser Ala Leu Leu Val
 325

<210> 32100

<211> 412

<212> PRT

<213> A.fumigatus

<400> 32100

Leu Cys Glu Ser Leu Leu Leu Ile Leu Gln Cys Met Arg Leu Thr Leu
 1 5 10 15
 Asn Val Ser Gln Tyr Ala Asn Gln Gln Ser Pro Asp Gly Pro Ala Met
 20 25 30
 Thr Trp Ala Ile Phe Ala Ile Thr Ala Asn Asp Val Ser Pro Ser Gly
 35 40 45
 Cys Ser Ala Tyr Thr Tyr His Gln Asp Ser Tyr Asp Pro Tyr Met Arg
 50 55 60
 Ala Pro Phe Tyr Gln Leu Ser Glu Gln Met Ile Asp Asp Ala Gly Ile
 65 70 75 80
 Asn Gly Gly Thr His Pro Ala Tyr Pro Phe Leu Thr Gly His Gly Gly
 85 90 95
 Ala Asn Gln Val Val Leu Met Gly Tyr Leu Gly Leu Arg Leu Leu Pro
 100 105 110
 Asp Asp Ala Ile His Ile Asp Pro Asn Leu Pro Pro Gln Val Ser Asn
 115 120 125
 Leu Lys Tyr Arg Thr Phe Tyr Trp Arg Gly Trp Pro Ile Ser Ser Ser
 130 135 140
 Ser Asn Arg Thr His Thr Thr Ile Ile Arg Ala Ala Asn Leu Ala Pro
 145 150 155 160
 Leu Asp Thr Ala Asp Ser Arg Phe Ala Asn Ala Ser Ile Pro Val Leu
 165 170 175
 Val Gly Asp Pro Ser Asn Ser Thr Ala Tyr Arg Leu Pro Val Thr Gly
 180 185 190
 Pro Leu Val Val Pro Asn Arg Gln Ile Gly Phe Asn Asn Thr Ile Pro
 195 200 205
 Gly Asn Met Val Gln Cys Arg Pro Val Tyr Ser Pro Asn Asp Tyr Ala
 210 215 220
 Pro Gly Gln Phe Pro Ile Ala Ala Val Asp Gly Ala Thr Phe Thr Lys
 225 230 235 240
 Trp Arg Pro Ser Thr Ala Asn Met Ser Ser Leu Thr Val Ala Leu Ala
 245 250 255
 Asp Val Glu Ile Asn Ser Lys Val Ser Gly Phe His Phe Asn Trp Trp
 260 265 270
 Gln Ala Pro Pro Val Asn Ala Thr Val Ile Phe His Asp Glu Met Leu
 275 280 285
 Glu Asp Pro Val Ala Ala Met Ser Ser Ser His Gly Asn Ser Arg Tyr
 290 295 300
 Arg Val Val Thr Thr Leu Thr Asn Ile Glu Gln Ser Gln Pro Tyr Asp

305 310 315 320
 Ala Gln Ser Thr Asp Asn Asn Glu Val Val Leu Asn Thr Gly Asn Thr
 325 330 335
 Thr Asp Val Ser Leu Ser Gln Thr Val His Thr Ser Arg Tyr Ala Thr
 340 345 350
 Leu Leu Ile Ser Gly Asn Gln Ala Gly Gly Glu Glu Gly Ala Thr Val
 355 360 365
 Ala Glu Trp Ala Ile Leu Gly Glu Ser Lys Gly Ser Ser Ser Gly His
 370 375 380
 Gly Asn Asn Lys Arg Arg Leu Asp Val Arg Ala Ala Ala Ala Leu Ser
 385 390 395 400
 Ala Leu Asn Asp Arg Arg Tyr Arg Gln Phe Asn Ala
 405 410

<210> 32101

<211> 286

<212> PRT

<213> A.fumigatus

<400> 32101

Arg Arg Glu Ser Val Val Leu Leu Lys Asn Asp Lys Asn Asp Ser Thr
 1 5 10 15
 Asn Ser Pro Ile Leu Pro Leu Asp Arg Glu Lys Thr Thr Leu Val Ile
 20 25 30
 Gly Pro Asn Ala Asp Leu Ala Ala Tyr Cys Gly Gly Gly Ser Ala Ser
 35 40 45
 Leu Leu Ala Tyr Tyr Thr Val Thr Pro Arg Gln Gly Ile Ala Asp Lys
 50 55 60
 Cys Gly Ala Glu Gln Val Val Phe Ser Gln Gly Cys Tyr Gly His Lys
 65 70 75 80
 Glu Leu Pro Leu Leu Gly Glu His Leu Arg Thr Ile Glu Thr Gly Gln
 85 90 95
 Pro Gly Tyr Thr Phe Arg Val Tyr Thr Glu Pro Pro Pro Ala Ser Gly
 100 105 110
 Ser Phe Lys Gly Ser Asp Ser Arg Thr Pro Val Asp Glu Leu His Met
 115 120 125
 Thr Asn Ser Ser Ala Phe Leu Met Asp Tyr Ser Pro Pro Gln Ile Ser
 130 135 140
 Gly Asp Thr Tyr Tyr Ala Thr Leu Glu Gly Thr Phe Glu Pro Pro Glu
 145 150 155 160
 Ser Gly Val Tyr Glu Phe Gly Leu Thr Val Ala Gly Thr Gly Leu Leu
 165 170 175
 Tyr Ile Asp Gly Val Leu Val Val Asp Asn Lys Thr Val Gln Arg Ala
 180 185 190
 Gly Thr Ser Phe Phe Arg Asp Arg Asp Gly Gly Arg Thr Arg Arg Ala
 195 200 205
 Leu Pro Arg Gly Gly Gln Glu Thr Ser Cys Leu Cys Arg Val Arg His
 210 215 220
 Gly Ala Asp Val Glu Pro Ala Ala Pro Pro Arg Arg Gly Leu Val Trp
 225 230 235 240
 Ala Gly Gly Pro Ser Ala Arg Trp Val Pro Glu Ala Gly Tyr Arg Tyr
 245 250 255
 Ser Asp Pro Ala Gly Gly Ala Val Ser Arg Ala Gly Gly Pro Gly Arg
 260 265 270
 Cys Leu Cys Gly Val Glu Arg Arg Leu Gly Glu Arg Gly Leu
 275 280 285

<210> 32102
 <211> 158
 <212> PRT
 <213> A.fumigatus

<400> 32102

Arg	Leu	Pro	Ala	Arg	Gly	Cys	Cys	Thr	Ser	Thr	Gly	Cys	Trp	Leu	Ser
1				5					10					15	
Thr	Thr	Arg	Arg	Tyr	Ser	Ala	Arg	Ala	Arg	Pro	Phe	Phe	Gly	Ile	Gly
			20					25					30		
Thr	Val	Glu	Glu	Arg	Gly	Glu	Arg	Tyr	Leu	Glu	Ala	Gly	Lys	Lys	His
		35					40					45			
His	Val	Phe	Val	Glu	Phe	Gly	Thr	Ala	Pro	Thr	Ser	Asn	Leu	Gln	His
	50					55					60				
His	His	Gly	Val	Val	Ser	Phe	Gly	Pro	Gly	Gly	Leu	Arg	Leu	Gly	Gly
65					70					75					80
Cys	Arg	Lys	Leu	Asp	Thr	Asp	Thr	Ala	Ile	Gln	Gln	Ala	Val	Gln	Ser
				85					90					95	
Ala	Ala	Gln	Ala	Asp	Gln	Val	Val	Val	Cys	Val	Gly	Leu	Ser	Gly	Asp
			100					105					110		
Trp	Glu	Ser	Glu	Gly	Phe	Asp	Arg	Pro	His	Met	Asp	Leu	Pro	Pro	Gly
		115					120					125			
Glu	Asp	Asp	Leu	Val	Asn	Ala	Gly	Ala	Ala	Val	His	Pro	Asn	Ala	Gly
	130					135					140				
Asp	Cys	Arg	Ala	Glu	Trp	His	Pro	Cys	Glu	Asp	Ala	Val	Gly		
145					150					155					

<210> 32103
 <211> 152
 <212> PRT
 <213> A.fumigatus

<400> 32103

Arg	Asp	Arg	Pro	Pro	Pro	Ala	Glu	Gly	Pro	Cys	Ala	Ala	Gly	Gln	Ser
1				5					10					15	
Pro	Arg	Ser	Pro	Ser	Arg	Arg	Ser	Thr	Pro	His	Arg	Gln	Arg	Pro	Gly
			20					25					30		
Pro	Pro	Ala	Arg	Leu	Thr	Ala	Pro	Pro	Ala	Gly	Ser	Leu	Tyr	Leu	Tyr
		35					40					45			
Pro	Ala	Ser	Gly	Thr	His	Arg	Ala	Glu	Gly	Pro	Pro	Ala	Gln	Thr	Arg
	50					55					60				
Pro	Arg	Arg	Gly	Gly	Ala	Ala	Gly	Ser	Thr	Ser	Ala	Pro	Cys	Arg	Thr
65					70					75					80
Leu	Gln	Arg	His	Asp	Val	Ser	Cys	Pro	Pro	Arg	Gly	Asn	Ala	Arg	Arg
			85					90					95		
Val	Leu	Pro	Pro	Ser	Arg	Ser	Arg	Lys	Lys	Asp	Val	Pro	Ala	Arg	Cys
		100						105					110		
Thr	Val	Leu	Leu	Ser	Thr	Thr	Ser	Thr	Pro	Ser	Met	Tyr	Ser	Ser	Pro
		115					120					125			
Val	Pro	Ala	Thr	Val	Ser	Pro	Asn	Ser	Tyr	Thr	Pro	Leu	Ser	Gly	Gly
	130					135					140				
Ser	Asn	Val	Pro	Ser	Ser	Val	Ala								
145					150										

<210> 32104

12530

<211> 109
<212> PRT
<213> A.fumigatus

<400> 32104
Pro Thr Ala Ser Ser Gln Gly Cys His Ser Ala Arg Gln Ser Pro Ala
1 5 10 15
Leu Gly Trp Thr Ala Ala Pro Ala Leu Thr Arg Ser Ser Ser Pro Gly
20 25 30
Gly Arg Ser Met Cys Gly Arg Ser Lys Pro Ser Leu Ser Gln Ser Pro
35 40 45
Leu Asn Pro Thr Gln Thr Thr Thr Trp Ser Ala Cys Ala Ala Asp Cys
50 55 60
Thr Ala Cys Trp Ile Ala Val Ser Val Ser Ser Phe Arg His Pro Pro
65 70 75 80
Ser Arg Arg Pro Pro Gly Pro Asn Glu Thr Thr Pro Trp Trp Cys Cys
85 90 95
Arg Phe Asp Val Gly Ala Val Pro Asn Ser Thr Lys Thr
100 105

<210> 32105
<211> 177
<212> PRT
<213> A.fumigatus

<400> 32105
Gln Val Cys Leu Gly Ala Leu Lys Gly Lys Leu Gln Ala Leu Lys Phe
1 5 10 15
Leu Ser Asp Ser Asp Ser Leu Tyr Asp Thr Thr Pro Leu Val Asp Met
20 25 30
Gly Val Asp Ser Leu Val Ala Val Glu Val Arg Ser Trp Phe Leu Lys
35 40 45
Glu Leu Thr Val Asp Val Pro Leu Met Lys Ile Leu Gly Gly Ala Ser
50 55 60
Ile Thr Asp Leu Val Glu Val Val Val Gln Lys Val Pro Arg Glu Leu
65 70 75 80
Leu Ser Arg Leu Asp Pro Glu Gly Arg Arg Gln Asp Ser Asn Gly Asp
85 90 95
Val Pro Ala Thr Val Gly Asp Asn Asp Ser Val Glu Thr Val Gly Ser
100 105 110
Lys Met Asn Gly Ile Asn Ser Ala His Glu Asn Gly Ser Ser Gly Val
115 120 125
Asn Gly Ile Ser Gly Thr Tyr Thr Pro Asp Met Asp Ser Thr Thr Asp
130 135 140
Leu Asn Gly Thr Asn Gly Ala Ala Val Ile Lys Glu Met Leu Gly His
145 150 155 160
Lys Ala Ile Lys Gly Val Val Pro Ile Leu Leu Asn Ala Gln Glu Val
165 170 175
Ala

<210> 32106
<211> 403
<212> PRT
<213> A.fumigatus

<400> 32106

Thr Glu Gly Phe His Tyr Gln Ile Leu Thr Ala Lys Ile Ser Ala Asn
 1 5 10 15
 Gln Asn Met Pro Met Ile Leu Gln Lys Lys Cys Ile Phe His Leu Val
 20 25 30
 Tyr Arg Val Gln His Asn Thr Thr Thr Trp Asn Thr Ser Lys Gly Ala
 35 40 45
 Ser Pro Pro Ser Gly Lys Gly Ser Glu Gly Val Pro Trp Arg Trp Ile
 50 55 60
 Lys Met Leu His Leu Arg Ile Arg Pro Leu Pro Arg Leu Gln Pro Ala
 65 70 75 80
 Ser Ser Ile Pro Thr Gln Ser Ala Pro Pro Ser Asp Phe His Asn Glu
 85 90 95
 Asp Asn Ser Asn Asp Asp Asp Ser Ala Glu Asp Leu Phe Ser Ala Phe
 100 105 110
 Leu Pro His Leu Phe Pro Asp Asp Ala Pro Ser Phe His Gly Asp Pro
 115 120 125
 Gly Gln Arg Leu Leu Tyr Thr Ser Pro Arg Tyr Gly Asp Leu Glu Ile
 130 135 140
 Met Val Pro Ser Tyr Pro Ser Gln Ser Glu Arg Arg Ser Glu Glu Ile
 145 150 155 160
 Ala Ala Gly Leu Pro Ser Glu Asp Gly Ser Val Asn Ala Val Asp Glu
 165 170 175
 Gly Arg Lys Leu Phe Ala His Phe Leu Trp Ser Ala Ala Met Val Val
 180 185 190
 Ala Glu Gly Val Glu Lys Ala Asp Thr Leu Ala Thr Arg Gly Glu Leu
 195 200 205
 Asp Ala Asp Thr Ala Met Trp Met Val Arg Gly Glu Arg Val Leu Glu
 210 215 220
 Leu Gly Ala Gly Thr Ala Leu Pro Ser Ile Ile Cys Ala Arg Ala His
 225 230 235 240
 Ala Ala Ala Val Thr Ile Thr Asp His Pro Ser Ser Pro Ala Leu Thr
 245 250 255
 Gly Ala Ile Asp Phe Asn Ile Arg Arg Asn Leu Ala Ala Thr Glu Thr
 260 265 270
 Glu Val Met Ser Gln Pro His Glu Trp Gly Met Leu Glu Pro Asp Pro
 275 280 285
 Trp Ala Val Ala His Arg Gly Ala Phe Thr Arg Ile Ile Ala Ala Asp
 290 295 300
 Cys Tyr Trp Val Arg Ser Gln His Glu Asn Leu Val Arg Ser Met Asn
 305 310 315 320
 Trp Phe Leu Ala Pro Gly Gly Lys Ile Trp Val Val Ala Gly Phe His
 325 330 335
 Thr Gly Arg Ala Ile Val Ala Trp Phe Phe Glu Thr Ala Met Gln Asn
 340 345 350
 Gly Leu Glu Ile Glu Arg Ile Tyr Glu Arg Asp Leu Ile Ala Thr Ser
 355 360 365
 Glu Asp Gly Gly Glu Val Arg Arg Glu Trp Met Pro Glu Arg Glu Gly
 370 375 380
 Glu Gly Pro Glu Asn Arg Arg Arg Trp Cys Val Val Ala Leu Leu Gln
 385 390 395 400
 Arg Arg Glu

<210> 32107

<211> 67

<212> PRT

<213> A.fumigatus

<400> 32107

```

Arg Val Leu Phe Gln Ser Phe Ser Met His Arg Arg Leu Pro Lys Met
1           5           10           15
Lys Asp Phe Ile Leu Met Phe Asp Asn Ile Ser Ser Leu Asp Val Leu
           20           25           30
Ile Tyr Arg Leu Leu Lys Ile Ile Lys Phe Leu Phe Leu Gln Val Ile
           35           40           45
Ile Ser Leu Leu Leu Ser Asn Leu Arg Leu Arg Ile Gly Pro Leu Pro
           50           55           60
Phe Ile Gln
65

```

<210> 32108

<211> 69

<212> PRT

<213> A.fumigatus

<400> 32108

```

Leu His Pro Ile Ala Asp Leu Pro Gly Arg Gly Gln Tyr Ala Lys Lys
1           5           10           15
Arg Lys Thr Asp Met Leu Ser Glu Asp Glu Glu Asp Glu Glu Thr Arg
           20           25           30
Ala Ala Ser Ala Leu Arg Ala Lys Arg Ala Lys Val Leu Glu Glu Lys
           35           40           45
Leu Lys Arg Glu Arg Val Arg Asn Arg Ala Leu Val Gly Val Thr Ala
           50           55           60
Val Phe Ala Leu Ala
65

```

<210> 32109

<211> 278

<212> PRT

<213> A.fumigatus

<400> 32109

```

Leu Leu Ala Gly Thr Ala Glu Leu Phe Gly Thr Glu Leu Ala Ala Ser
1           5           10           15
Gln Thr Tyr Thr Phe Ser Gly Thr Lys Ala Ala Ile Tyr Thr Trp His
           20           25           30
Gly Cys Thr Leu Glu Val Ser Ala Gly Asp Thr Ile Ser Thr Ile Asp
           35           40           45
Gly Leu Gly Ser Gly Gly Leu Asn Gly Glu Gly Ala Arg Gly Tyr Gly
           50           55           60
Ala Gly Gly Cys Gln Ser Glu Tyr Thr Ala Glu Glu Thr Pro Met Val
65           70           75           80
Glu Tyr Ala Asn Val His Phe Ala Leu Glu Ala Met Arg Gln Glu Ala
           85           90           95
Lys Ala Thr Gly Lys Asp Gly Pro Arg Val Leu Ile Leu Gly Pro Glu
           100          105          110
Asn Ala Gly Lys Thr Ser Val Ala Lys Ile Leu Thr Ala Tyr Ala Thr
           115          120          125
Lys Val Gly Arg Gln Pro Ile Val Val Asn Leu Asp Pro Ala Glu Gly
           130          135          140

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12533

Met Leu Ser Val Pro Gly Thr Leu Thr Ala Thr Ala Phe Arg Thr Met
 145 150 155 160
 Met Asn Val Glu Glu Gly Trp Gly Ser Ser Pro Met Ser Gly Pro Ser
 165 170 175
 Ala Val Pro Val Lys Leu Pro Leu Val Tyr Phe Tyr Pro Leu Gln Asn
 180 185 190
 Pro Leu Glu Ala Glu Gly Ala Val Tyr Arg Pro Ile Val Ser Arg Leu
 195 200 205
 Ala Leu Ser Val Thr Gly Arg Met Ala Glu Asp Glu Asp Thr Arg Glu
 210 215 220
 Thr Gly Ile Ile Val Asp Thr Pro Gly Ile Leu Ser Ala Gly Lys Pro
 225 230 235 240
 Gly Ser Leu Glu Ile Ile Asn His Ile Val Thr Glu Phe Ala Ser Lys
 245 250 255
 Ala Pro Phe Leu Ser Ala Ser Arg Arg Trp Ser Ser Pro Arg Gly Pro
 260 265 270
 Lys Asp Pro Arg Lys Val
 275

<210> 32110

<211> 190

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (178), (179), (181), (186), (187), (188)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32110

Ala Asp Cys Gln Gly Ala Lys Met Ala Glu Gln Ala His Ser Gln Gly
 1 5 10 15
 Gln Gly Gln Ser Gln Gly Gln Gly Gln Gly Gln Gly Gln Gly Asp Val
 20 25 30
 Glu Arg Gly Pro Ser Arg Ile Ser Gln Gln Ser Ser Arg Arg Ile Ser
 35 40 45
 Arg Val Ser Tyr Lys Glu Asp Trp Ala Asn Leu Asp Glu Tyr Gly Lys
 50 55 60
 Leu Val Lys Tyr Val Ser Thr Tyr Arg Glu Pro Gly Arg Glu Glu Gly
 65 70 75 80
 Val Glu Glu Glu Lys Val Lys Arg Val Trp Tyr Ala Pro Trp Lys Lys
 85 90 95
 Arg Lys Val Lys Val Lys His Val Asp Lys Glu Pro Gly Gln Phe Pro
 100 105 110
 Pro Glu Trp Leu Ile Thr Asp Ile Arg Gln Gly Leu Pro Ser Ser Glu
 115 120 125
 Val Pro Ile Arg Arg Arg Val Ser Gly Trp Asn Glu Leu Thr Ser Glu
 130 135 140
 Lys Glu Asn Pro Ile Ala Lys Ile Leu Ser Tyr Phe Arg Gly Pro Ile
 145 150 155 160
 Leu Tyr Gly Met Thr Tyr Asp Phe Asp Ser Ser Ser Phe Lys Asp Ser
 165 170 175
 Asp Xaa Xaa Phe Xaa Thr Gly Pro Gly Xaa Xaa Xaa Val Asn
 180 185 190

<210> 32111

<211> 142
 <212> PRT
 <213> A.fumigatus

<400> 32111

Ala	Ser	Leu	Leu	His	Leu	Gly	Ser	Pro	Gly	Thr	Asp	His	Cys	Pro	Gln
1				5					10					15	
Ile	Ile	Ala	Ala	Ser	Pro	Tyr	Ser	Pro	Pro	Ile	Tyr	Pro	Tyr	Asn	Asp
		20						25					30		
Ser	Ile	Pro	Thr	Val	Tyr	Tyr	Glu	Gln	Phe	Ala	Lys	Glu	Ala	Gly	Cys
		35					40					45			
Gly	Arg	Ser	Ala	Ser	Ala	Arg	Ser	Lys	His	Lys	Thr	Thr	Phe	Asp	Cys
	50					55					60				
Leu	Val	Ala	Ala	Pro	Ser	Glu	Thr	Leu	Gln	Thr	Ala	Ser	Gly	Ala	Val
65					70					75					80
Ser	Ala	Ser	Gly	Ile	Phe	Gly	Thr	Phe	Ala	Phe	Leu	Pro	Val	Val	Asp
				85					90					95	
Gly	Asp	Met	Ile	Arg	Ala	Arg	Pro	Ser	Val	Gln	Leu	Leu	Thr	Gly	Gln
			100				105						110		
Ile	Ser	Gly	Arg	Arg	Ile	Leu	Val	Gly	Val	Gly	Leu	Phe	Pro	Ser	Phe
		115					120					125			
Phe	Arg	Ser	Ala	Ser	Val	Cys	Cys	Glu	Leu	Val	Asp	Gln	Leu		
	130						135				140				

<210> 32112
 <211> 253
 <212> PRT
 <213> A.fumigatus

<400> 32112

Asn	Asn	Ala	Asn	Asp	Gly	Val	Pro	Leu	Ser	Asn	Pro	Asn	Ile	Val	Thr
1				5					10					15	
Arg	Ala	Ala	Phe	Asp	Asp	Tyr	Ile	Ser	Lys	Thr	Phe	Pro	Arg	Leu	Thr
		20						25					30		
Ala	Lys	His	Val	Thr	Arg	Leu	Asn	Val	Leu	Tyr	Gly	Thr	Ala	Asp	Ser
		35					40					45			
Gln	Ala	Ser	Asp	Asp	Gly	Pro	Arg	Phe	Asp	Thr	Leu	Gly	Thr	Ser	Gly
		50				55				60					
Pro	Thr	Ala	Asn	Asn	Gln	Ser	Glu	Ile	Ala	Thr	Gly	Leu	Gln	Gln	Thr
65					70					75					80
Val	Phe	Asn	Ile	Tyr	Gly	Glu	Thr	Thr	Phe	Asp	Cys	Pro	Ala	Gln	Trp
			85						90					95	
Leu	Val	Glu	Ala	Phe	Gly	Gly	Thr	Ser	Arg	Gln	Ala	Trp	Lys	Tyr	Gln
			100				105						110		
Tyr	Ser	Val	Thr	Pro	Ala	Tyr	His	Gly	Ala	Asp	Leu	Asn	Ser	Tyr	Phe
		115					120					125			
Asn	Met	Gly	Ala	Ser	Trp	Pro	Asn	Ala	Gly	Phe	Asn	His	Ala	Phe	Gln
	130						135				140				
Lys	Met	Trp	Gly	Asn	Phe	Ile	Met	Asn	Asp	Ser	Pro	Val	Ile	Pro	Leu
145					150					155					160
Gly	Asp	Ala	Thr	Ala	Asn	Asn	Ser	Gln	Ala	Val	Val	Pro	Val	Gly	Arg
				165					170					175	
Asp	Gly	His	Leu	His	Trp	Pro	Arg	Phe	Arg	Pro	Thr	Ser	Pro	Trp	Gln
			180					185					190		
Met	Asp	Leu	Asn	Thr	Thr	Gly	Gly	Ser	Val	Ser	Lys	Val	Val	Val	Thr
		195					200						205		

12535

Pro Asn Leu Thr Tyr Tyr Val Arg Glu Gly Asp Asp Ile Val Asn His
 210 215 220
 Phe Arg Leu Ala Asn Ala Tyr Ser Trp Glu Gly Gly Arg Gly Leu Arg
 225 230 235 240
 Cys Ala Phe Trp Arg Ala Val Ala Asp Arg Ile Ala Val
 245 250

<210> 32113
 <211> 87
 <212> PRT
 <213> A.fumigatus

<400> 32113
 Leu Gly Ala Phe Gly Phe Leu Ser Ser Ala Glu Val His Lys Gln Gly
 1 5 10 15
 Ala Phe Asn Ala Gly Leu Leu Asp Gln Arg Phe Ala Leu Glu Trp Val
 20 25 30
 Gln Arg Tyr Ile Ser Arg Phe Gly Gly Asp Pro Lys Arg Val Thr Ile
 35 40 45
 Gly Gly Glu Ser Ala Gly Ala Gly Ala Val Met Leu Gln Ser Leu Ala
 50 55 60
 Tyr Gly Gly Ala Glu Ser Asn Leu Phe Gln Asn Val Ser Leu Ile Thr
 65 70 75 80
 Pro Ser Arg Leu Ala Trp Asn
 85

<210> 32114
 <211> 245
 <212> PRT
 <213> A.fumigatus

<400> 32114
 Gln Ile Phe Asn Ser Ser Cys Ile Ala His Arg Thr Thr Ile Leu Ala
 1 5 10 15
 Glu His Leu Ser Pro Gly Thr Ser Ser Thr Ala Ala Ser Ser Leu Ala
 20 25 30
 Ser Ile Ile Leu Pro Lys Ile Thr His Asp Lys Pro Gln Lys Leu Thr
 35 40 45
 Tyr Thr His Glu Arg Leu Phe Ile His Tyr Ile Ala Asp Ser Pro Ser
 50 55 60
 Gly Ser Ser Asp Asp Ala Gly Arg Gln Glu Pro Asn Ser Tyr Ala Pro
 65 70 75 80
 Leu Ser Tyr Ile Val Val Ala Thr Ala Glu Gln Gly Arg Arg Ile Pro
 85 90 95
 Phe Ala Phe Leu Leu Glu Met Lys Arg Lys Phe Leu Ser Thr Tyr Pro
 100 105 110
 Pro Ser Ser Thr Asp Phe Ser Ser Leu Pro Ala Tyr Gly Cys Ala Ala
 115 120 125
 Phe Asn Ser Glu Leu Arg Ser Leu Leu Gln Thr Tyr Asn Thr Ala Pro
 130 135 140
 Pro Ser Asp Ser Leu Ala Ser Ala Arg Arg Glu Ile Asp Ser Val Arg
 145 150 155 160
 Asp Ile Met Thr Glu Asn Ile Glu Arg Val Leu Glu Arg Gly Glu Arg
 165 170 175
 Ile Asp Leu Leu Val Asp Lys Thr Asp Arg Leu Gly Gly Ser Ala His
 180 185 190

12536

Asp Phe Arg Val Arg Ser Arg Gly Leu Arg Arg Arg Met Trp Trp Lys
 195 200 205
 Asn Ile Lys Leu Met Val Leu Leu Ala Val Val Val Val Phe Leu Ile
 210 215 220
 Tyr Leu Phe Val Gly Met Gly Cys Gly Leu Pro Ala Trp Gly Lys Cys
 225 230 235 240
 Val Gly His Ser Ala
 245

<210> 32115
 <211> 141
 <212> PRT
 <213> A.fumigatus

<400> 32115
 Leu Lys Leu His Cys Ala Pro Glu Asp Gly Phe Ile Ile Lys Ala Val
 1 5 10 15
 Ser Glu Thr Ala Ser Pro Glu Thr Ser Glu Thr Tyr Gly Leu His Ser
 20 25 30
 Met Thr Val Thr Gly Pro Gly Ala Glu Gly Tyr Ser Thr Phe Phe Ala
 35 40 45
 Ile Val Cys Ala Thr Ala Val Tyr Arg Asp Lys Thr Ser Val Arg Leu
 50 55 60
 Arg Ala Ala Ser Glu Leu Arg Arg Leu Leu Ala Glu Ile Tyr His Thr
 65 70 75 80
 Arg Val Thr Asn Gly Gln Tyr Ser Gln Leu Arg Gly Ala Val Ala Val
 85 90 95
 Gly Gln Ser Val Gln Phe Phe Asn Trp Gly Glu Asp Gly Phe Leu Arg
 100 105 110
 Val Phe Pro Trp Ala Thr His Pro Phe Asp Ile Lys Ser Asp His Tyr
 115 120 125
 Ala Val Gln Gly Cys Leu Asp Leu Ile Val Gln Asn His
 130 135 140

<210> 32116
 <211> 498
 <212> PRT
 <213> A.fumigatus

<400> 32116
 Ser Asn Pro Val Leu Leu Leu Phe Leu Phe Phe Ile Leu Ile Tyr Phe
 1 5 10 15
 Leu Leu Gln Gln Tyr Phe Leu Leu Phe Leu Thr Ser Val Phe Ala Phe
 20 25 30
 Val His Val Ser Ala Ile Met Ser Ser Gly Ile Pro Pro Trp Arg Thr
 35 40 45
 Thr Ala Ser Ala Thr Ala Thr Thr Ala His Phe Pro Ala His Gly Met
 50 55 60
 Cys Phe Leu Thr Leu Ile Ser Leu Tyr Leu Ile Ser Asn Cys Asp Leu
 65 70 75 80
 Ala Thr Pro Ala Tyr Ile Pro Val Gln Ala Arg Arg Ser Phe Ala His
 85 90 95
 Thr Ser Thr Thr Ala Met Val Pro Gln Pro Gln Pro Thr Thr Thr Gln
 100 105 110
 Ala Pro Arg Lys Arg Val Glu Trp Pro Ala Pro Leu Arg Ser Tyr Val
 115 120 125

Gln Arg Ser Phe Ala Pro Glu Asn Gln Leu Pro Gly Val Asn Arg Gln
 130 135 140
 Glu Met Glu Val Lys Leu Lys Gly Val Ile Thr Glu Ala Ala Glu Lys
 145 150 155 160
 Gly Gln Leu Glu Lys Ile Asn Trp Asp Ala Leu Pro Leu Pro Gln Val
 165 170 175
 Met Ile Gln Asn Glu Arg Asn Gln Ile Leu Thr Asn Pro Ala Val Ser
 180 185 190
 Gly Trp Ser Asp Ser Leu Leu Thr Ala Ala Gln Lys Pro Asp Thr Val
 195 200 205
 Thr Glu Asp Val Ser Arg Lys Arg Lys Ser Ala Glu Tyr Gly Asp Lys
 210 215 220
 Asp Ser Cys Pro Pro Trp Arg Gln Thr Asn Asn His His Ala Phe Gly
 225 230 235 240
 Asp Arg Thr Thr Tyr Pro Ser Ala Asp Lys Arg Gln Arg Val Asp His
 245 250 255
 Lys Asn Pro Ser Lys Ser Lys Ala Asn Leu Glu Met Arg Arg Lys Arg
 260 265 270
 Phe Glu Glu Pro Arg Ala Arg Tyr Gly Ser Ser Pro Ser Ser Ser Arg
 275 280 285
 Gly Glu Ser Pro Ala Pro Ser Ala Asn Gln Gly Pro Val Val Gly Arg
 290 295 300
 Cys Gln Glu Leu Glu Lys Asn Tyr Phe Arg Leu Thr Ser Ala Pro Asn
 305 310 315 320
 Pro Asp Thr Val Arg Pro Leu His Val Leu His Lys Thr Leu Asp Leu
 325 330 335
 Leu Lys Lys Lys Trp Lys Lys Asp Asn Asn Tyr Gly Tyr Ile Cys Asp
 340 345 350
 Gln Phe Lys Ser Leu Arg Gln Asp Leu Thr Val Gln His Ile Arg Asn
 355 360 365
 Glu Phe Thr Val Ser Val Tyr Glu Ile His Ala Arg Ile Ala Leu Glu
 370 375 380
 Lys Gly Asp Leu Gly Glu Tyr Asn Gln Cys Gln Thr Gln Leu Arg Ala
 385 390 395 400
 Leu Tyr Ala Gln Asn Leu Gly Gly His Pro Thr Glu Phe Lys Ala Tyr
 405 410 415
 Arg Ile Leu Tyr Phe Ile His Thr Arg Asn Trp Thr Ala Met Asn Asp
 420 425 430
 Ala Leu Ala Asp Leu Thr Ala Ala Asp Lys Arg Asp Pro Ala Val Lys
 435 440 445
 His Ala Leu Asp Val Arg Ser Ala Leu Ala Leu Gly Asn Tyr His Arg
 450 455 460
 Phe Phe Gln Leu Tyr Leu Asp Thr Pro Asn Met Gly Ala Tyr Leu Met
 465 470 475 480
 Asp Met Phe Val Asp Arg Glu Arg Leu Ser Ala Leu Ala Ala Ile Cys
 485 490 495
 Lys Ala

<210> 32117

<211> 217

<212> PRT

<213> A.fumigatus

<400> 32117

Ala Thr Leu Asp Ser Ser Phe Met Ser Lys Leu Asp Gly Tyr Leu Lys

12538

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1           5           10           15
Ser Leu Val Ala Arg Arg Ser Leu Val Asp Asn Val Thr Ser Gly Leu
20           25           30
Ser Thr Ala Val Asp Ser Val Gly Ser Val Gly Asn Thr Ala Ser Ala
35           40           45
Ala Gln Thr Leu Thr Asp Val Ala Gly Ser Ala Ala Ser Thr Val Ala
50           55           60
Ser Val Gly Glu Asp Ile Thr Ser Ala Thr Asn Lys Thr Leu Val Asn
65           70           75           80
Ala Val Asp Ala Ala Leu Ser Arg Thr Arg Ala Asp Tyr Pro Asp Phe
85           90           95
Leu Ile Val Gly Leu Trp Ser Tyr Cys Asn Gly Ser Phe Asp Gly Ser
100          105          110
His Thr Pro Ile Val Thr Asn Cys Ser Thr Pro Ser Thr Thr Phe Ser
115          120          125
Phe Asn Phe Ser Gly Ala Leu Gly Leu Asp Ser Ser Trp Val Ala Ser
130          135          140
Ile Phe Pro Ser Ala Leu Gln Asp Ala Ile Asp Tyr Tyr His Lys Phe
145          150          155          160
Thr Asn Trp Met Val Ser Ala Trp Ile Ile Thr Val Val Ser Thr Val
165          170          175
Leu Val Leu Leu Ala Gly Leu Thr Ala Phe Gly Ser Arg Trp Gly Ser
180          185          190
Leu Ile Thr Ser Phe Cys Ala Val Val Thr Thr Ala Leu Phe Pro Leu
195          200          205
Thr Glu Ser Lys Arg Arg Leu Thr His
210          215

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<210> 32118

<211> 255

<212> PRT

<213> A.fumigatus

<400> 32118

```

Ile Lys Gln Gln Lys Glu Ser Ile Cys Ala Ala Gly Ser Pro Gln Tyr
1           5           10           15
Thr Gly Trp Leu Ala Val Gly His Lys His Leu Phe Phe Trp Tyr Phe
20           25           30
Glu Ser Gln Asn Asp Pro Ser His Asp Pro Leu Thr Leu Trp Met Ser
35           40           45
Gly Gly Pro Gly Val Ser Ser Met Val Gly Leu Phe Gln Glu Ile Gly
50           55           60
Pro Cys Leu Val Asn Glu Tyr Gly Asn Gly Thr Tyr His Asn Pro Trp
65           70           75           80
Gly Trp Ser Arg Tyr Ser Ser Leu Leu Phe Val Asp Gln Pro Val Asp
85           90           95
Val Gly Phe Ser Tyr Val Asp Gly Gly His Glu Leu Pro Arg Asp Ser
100          105          110
Lys Glu Ala Ala Val Asp Met His Arg Phe Leu Gln Leu Phe Val Ser
115          120          125
Glu Val Phe Pro His Leu Gln Asp Leu Pro Val His Val Ser Gly Glu
130          135          140
Ser Phe Ala Val Trp Lys Met Leu Ser Phe Pro Arg Thr Asn His Thr
145          150          155          160
Asp Ile Pro Gly Ser Leu Tyr Ser Val Pro Trp Arg Ser Asp His Thr
165          170          175

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12539

Ala Glu Arg Ala Val Ala Gln Pro Ala Thr Gly Ala Ala Gln Val Val
 180 185 190
 Phe Gly Gly Gln Trp Leu His Val Pro Glu Gly Tyr Ile Leu Arg Val
 195 200 205
 Leu Gly Asn Ala Leu His His Glu Ser Arg Cys Gly Lys Ala Arg Val
 210 215 220
 Gln Pro Asp Ala Leu Arg Ser His Arg Leu Glu His Ala Ser Val His
 225 230 235 240
 Gly Ser Gln Cys Ser Val Cys Pro Glu Ser Arg Ser Gly Phe Val
 245 250 255

<210> 32119

<211> 171

<212> PRT

<213> A.fumigatus

<400> 32119

Ala Val Pro Asn Ser Val Thr Ala Pro Cys Glu Ile Asp Asp Met Cys
 1 5 10 15
 Tyr Ile Gln Ala Val His Val Glu Gln Tyr Leu Asn Thr Pro Ala Val
 20 25 30
 Trp Asn Ala Leu Ser Pro Pro Lys Gln Ile Ser Glu Tyr Lys Met Val
 35 40 45
 Ser Glu Ala Val Ile Asp Ala Phe Ala Lys Ser Ser Asp Gly Met Thr
 50 55 60
 Ser Thr Ser Asp Leu Val Ala Phe Leu Leu Ala Asn Gln Val His Phe
 65 70 75 80
 Leu Ala Tyr Gln Gly Asn Leu Asp Leu Ala Cys Asn Thr Ala Gly Asn
 85 90 95
 Leu Arg Trp Ala His Ser Leu Val Trp Lys Gly Gln Ala Glu Phe Ala
 100 105 110
 Ser Lys Pro Leu Arg Pro Trp Arg Ser Pro Val Ala Ala Thr Asp Arg
 115 120 125
 Asn Glu Thr Val Gly Thr Met Lys Glu Val Trp Val Arg Val Gly Asn
 130 135 140
 Ala Asp Thr Glu Ser Arg Phe Ala Leu Val Thr Val Asp Gly Ala Gly
 145 150 155 160
 His Leu Val Ser Thr Cys Arg Glu Tyr Asn Pro
 165 170

<210> 32120

<211> 91

<212> PRT

<213> A.fumigatus

<400> 32120

Asp Val Val Gly Ser Val Ser Arg Ser Gly Arg Phe Ser Arg Thr Val
 1 5 10 15
 Lys Arg Glu Ala Asp Leu Ile Arg Leu Thr Arg Phe Ile Ala Thr Gly
 20 25 30
 Val Thr Val Pro Gly Leu Phe Val Arg Ala Ala Tyr Trp Pro Glu Lys
 35 40 45
 Trp Asp Trp Val Asn Asn Val Leu Met Tyr Trp Leu Val Gly Ala Phe
 50 55 60
 Tyr Cys Leu Asp Ile Ala Tyr Gly Met Cys Leu Trp Tyr Phe Arg Arg
 65 70 75 80

12540

Leu Glu Arg Met Ser Ser Arg Val Lys Gln Gly
 85 90

<210> 32121
 <211> 176
 <212> PRT
 <213> A.fumigatus

<400> 32121
 Thr Ile Lys Met Asp Gly Leu Asp Phe Asp Thr Ala Pro Val Glu Phe
 1 5 10 15
 Gln Lys Val Arg Trp Ile Val Glu Thr Pro Leu Ile Ile Ala Gly Met
 20 25 30
 Gly Trp Thr Leu Asn Tyr Phe Phe Thr Ile Arg Lys Ala Tyr Gln Asp
 35 40 45
 Arg Met Ser Gly Val Ser Leu Ile Ala Leu Ser Asn Asn Leu Ala Trp
 50 55 60
 Glu Ile Ala Phe Ala Leu Ile Asn Pro Pro Pro Asn Pro Leu Ala Arg
 65 70 75 80
 Val Asn Tyr Pro Leu Trp Leu Ser Val Asn Ala Phe Val Leu Tyr Ala
 85 90 95
 Thr Val Lys Cys Glu Arg Glu Ser Gly Leu His Ser Pro Phe Met Arg
 100 105 110
 Arg His Leu Pro Phe Ile Val Leu Ile Ser Ile Leu Gly Leu Leu Ser
 115 120 125
 Gly His Leu Ala Phe Ser Ser His Val Gly Pro Leu Ala Ala Leu Phe
 130 135 140
 Trp Gly Gly Met Phe Cys Gln Val Thr Leu Ser Ala Ser Ala Leu Gly
 145 150 155 160
 Leu Leu Leu Gln Arg Gly His Thr Arg Gly Met Ser Tyr Lys Met Trp
 165 170 175

<210> 32122
 <211> 101
 <212> PRT
 <213> A.fumigatus

<400> 32122
 Lys Asp Glu Glu Ala Ser Lys Ala Ile Pro Ser Leu Lys Gln Ser Pro
 1 5 10 15
 Ser Leu Lys Gly Leu Asn His Leu Ala Thr Asp Gly Val Tyr Arg Ser
 20 25 30
 Phe Ser Ser Ser Gly Gln Val Val Asp Tyr Lys Gln Leu Ser Pro Ala
 35 40 45
 Asp Ile Thr Lys Val Leu Glu Phe His Glu Lys Tyr Met Asp Ser Glu
 50 55 60
 Ile Phe Gln Lys Thr Lys Lys Phe Asp Gly Val Asp Gly Arg Asn
 65 70 75 80
 Val Thr Asp Leu Glu Gln Leu Leu His Pro Gly Pro Glu Ser Arg Pro
 85 90 95
 Val Arg Phe Arg Glu
 100

<210> 32123
 <211> 221
 <212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (5)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32123

```

Arg Gly Gly Phe Xaa Ile Val Glu Arg Ser Phe Ser His Pro Arg Gly
1           5           10           15
Glu Asp Ala Ile Ala Leu Ala Asn Thr Gly Ala Thr Leu Ala Leu Ile
20           25           30
Asp Val Asp Val Glu Ala Leu Glu Pro Thr Lys Ala Ala Arg Asn
35           40           45
Val Gln Asp Arg Gln Ser His Val Glu Thr Tyr Gly Leu Asp Ile Thr
50           55           60
Asp Pro Gly Ala Val Gln Ser Thr Phe Lys Ser Ile Ala Ala Thr Leu
65           70           75           80
Gly Arg Val Asp Ile Leu Val Asn Asn Ala Gly Ile Thr Arg Leu His
85           90           95
Leu Phe Ala Glu Glu Glu Gly Phe Asp Asp Phe Trp Arg Thr Val Glu
100          105          110
Val Asn Phe Lys Gly Thr Met Leu Cys Ile His Ala Val Leu Pro Gly
115          120          125
Met Val Glu Gln Lys Ser Gly Cys Ile Ile Asn Met Ala Ser Arg Ala
130          135          140
Ala Thr Val Asp Gly Pro Lys Ser Val Gly Tyr Asn Ala Ser Lys Ala
145          150          155          160
Ala Leu Val Arg Ala Thr Gly Ser Leu Gln Glu Asp Leu Ala Ser Met
165          170          175
Gly Leu Gly Glu Gln Val His Ala Tyr Cys Leu His Pro Gly Ser Val
180          185          190
Trp Gly Asp Ile Ile Thr Gly Lys Leu Thr His Thr Arg Gly Ala Phe
195          200          205
Pro Gly Ile Gln Val Gln Thr Pro Lys Lys Trp Phe Lys
210          215          220

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<210> 32124

<211> 596

<212> PRT

<213> A.fumigatus

<400> 32124

```

Tyr Val Asp Arg Tyr Pro Val Asn Gly Arg Leu Pro Val Lys Pro Asn
1           5           10           15
Ile Arg Ala Leu Ser Glu Pro Trp Val Arg Ser Ala Asn Leu Ser Trp
20           25           30
Met Ser Leu Pro Ser Arg Ala Asn Leu Gly Asn Ala Arg Arg Trp Met
35           40           45
Met Leu Val Arg Cys Leu Asn Ser Gly Ile Glu Leu Thr Val Glu Leu
50           55           60
Asn Ile Ala Val Ala Asp Pro Ile Tyr Glu Glu Pro Gln Ser Asp Ala
65           70           75           80
Asp Tyr Val Ser Ser Asp Glu Ser Ser Val Asn Ser Asp Ser Leu His
85           90           95
Glu Thr Pro Ala Thr Pro Ile Ser Thr Thr Ser Ala Lys Tyr Pro Ser

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			100					105					110					
Glu	Leu	Lys	Thr	His	Arg	Cys	Pro	Phe	Asp	Gly	Cys	Thr	Lys	Ala	Phe			
			115					120					125					
Asn	Arg	Pro	Ala	Arg	Leu	Gln	Glu	His	Leu	Arg	Ser	His	Asn	Asn	Glu			
			130					135					140					
Arg	Ile	Phe	Lys	Cys	Thr	Phe	Glu	Glu	Cys	Asp	Lys	Thr	Phe	Leu	Arg			
145				150					155					160				
Ala	Ser	His	Leu	Asn	His	His	Ile	Lys	Ser	Ala	His	Thr	Gly	Val	Arg			
			165					170					175					
Asp	Tyr	Val	Cys	Asp	Arg	Pro	Gly	Cys	Gly	Lys	Ser	Phe	Val	Thr	Gly			
			180					185					190					
Ser	Arg	Leu	Arg	Arg	His	Leu	Ala	Ala	His	Asp	Gly	Arg	Asp	Lys	Tyr			
			195					200					205					
Arg	Cys	Thr	Glu	Tyr	Pro	Pro	Cys	Asn	Glu	Thr	Phe	Arg	Lys	His	Ser			
			210					215					220					
Thr	Leu	Gln	Lys	His	Ile	Met	Thr	Ala	His	Leu	Lys	Gln	Lys	Pro	Phe			
225				230					235					240				
Gln	Cys	Pro	His	Thr	Asp	Pro	Ser	Thr	Gly	Gln	Lys	Cys	Thr	Met	Ala			
			245					250					255					
Phe	Asp	Thr	Ala	Gly	His	Leu	Arg	Ala	His	Glu	Ser	Arg	Ile	His	Thr			
			260					265					270					
Glu	Lys	Arg	Phe	Ser	Cys	Thr	Glu	Cys	Ser	Gln	His	Ala	Glu	Gly	Ala			
			275					280					285					
Glu	Ala	Thr	Phe	Pro	Thr	Tyr	Ala	Leu	Leu	Gln	Ala	His	Ile	Arg	Ser			
			290					295					300					
Val	His	Pro	Pro	Gln	Cys	Pro	Asn	Cys	Ala	Leu	Thr	Cys	Ala	Thr	Ser			
305				310					315					320				
Arg	Glu	Leu	Arg	Arg	His	Leu	Glu	Val	Ala	His	Gly	Asp	Val	Ser	Leu			
			325					330					335					
Glu	Glu	Arg	Lys	Ile	Phe	Pro	Cys	Thr	Val	Pro	Gly	Cys	Asp	Arg	Ser			
			340					345					350					
Phe	Thr	Lys	Lys	Gly	Asn	Leu	Thr	Val	His	Ile	Arg	Thr	Val	His	Gln			
			355					360					365					
Gly	Glu	Lys	Arg	Phe	Val	Cys	Gly	Glu	Thr	Asp	Leu	Ser	Ser	Ser	Lys			
			370					375					380					
Lys	Val	Ser	Gly	Trp	Asn	Asn	Asp	Asn	Gly	Cys	Gly	Lys	Arg	Tyr	Gly			
385				390					395					400				
Ser	Lys	Leu	Ala	Leu	Glu	Glu	His	Ile	Arg	Thr	Ala	His	Leu	Gly	Tyr			
			405					410					415					
Gln	Asn	Ala	Lys	Ala	Glu	Arg	Arg	Gln	Arg	Leu	Gly	Ile	Thr	Arg	Asp			
			420					425					430					
Arg	Gln	His	Ser	Thr	Ala	Thr	Ser	Pro	Gly	Val	Ser	Ala	Leu	Ala	Ala			
			435					440					445					
Leu	Thr	Gly	Glu	Gly	Tyr	Ala	Glu	Glu	Thr	Gly	Arg	His	Ile	Ala	Cys			
			450					455					460					
Leu	Val	Glu	Ser	Cys	Pro	His	Arg	Phe	His	Arg	Asp	Tyr	Asp	Leu	Trp			
465				470					475					480				
Val	His	Met	Ser	Gly	Lys	His	His	Phe	Ser	Glu	Glu	Glu	Thr	Arg	Asp			
			485					490					495					
Leu	Phe	Leu	Arg	Arg	Ala	Leu	Leu	Ala	His	Asp	Phe	Gly	Ala	Ser	Ala			
			500					505					510					
Ser	Ala	Ser	Ala	Ser	Ser	Glu	Glu	Leu	Phe	Gly	Gly	Ile	Tyr	Gly	Leu			
			515					520					525					
Glu	Phe	Asp	Asn	Asp	His	Ser	Ser	Tyr	Asp	Pro	Tyr	Val	Leu	Asp	Gly			
			530					535					540					
Ser	Glu	Thr																

12543

545 550 555 560
 Ala His Gly Ala Asp Val Met Met His Asp Asn Ser Ser Thr Ile Pro
 565 570 575
 Thr Pro Gly Asp Asp Met Ala Leu Ile Asp Pro Ala Leu Ala Tyr Asp
 580 585 590
 Met Met Glu Ser
 595

<210> 32125
 <211> 79
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (66)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32125
 Thr Tyr Pro Asp Leu Leu Val Phe Gly Ser Gly Gly Lys Val Leu Ala
 1 5 10 15
 Val Gly Thr Glu Ala Asp Ala Ala Asn Ile Gln Val Ser Ile Leu Val
 20 25 30
 Tyr Thr Phe Val Leu Gln Gly Ser Asp Asp Leu Ala Ser Gly His Val
 35 40 45
 Glu Asp Leu Ser Gly Ala Val Ala Ala Arg Gly Glu Val Val Pro Val
 50 55 60
 Ala Xaa Glu Ser Gly Ser Arg Pro Tyr Ser Ala Ser Ile Arg Gly
 65 70 75

<210> 32126
 <211> 83
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (14)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32126
 Thr Pro Asp Thr Ser Ala Val Arg Pro Thr Ser Arg Leu Xaa Arg Asp
 1 5 10 15
 Gly Asp His Leu Ala Ala Gly Cys Asn Arg Ser Ala Gln Ile Phe Asp
 20 25 30
 Val Thr Thr Gly Gln Ile Val Ala Thr Leu Gln Asp Glu Ser Val Asp
 35 40 45
 Lys Asp Gly Asp Leu Tyr Ile Arg Ser Val Cys Phe Ser Pro Asp Gly
 50 55 60
 Lys Tyr Leu Ala Thr Gly Ala Glu Asp Lys Gln Ile Arg Val Cys Ser
 65 70 75 80
 Leu Phe Ser

<210> 32127
 <211> 180

12544

<212> PRT

<213> A.fumigatus

<400> 32127

```

Asp Phe Val Leu Ser Val Cys Leu Thr Pro Asp Gly His Trp Val Met
1           5           10           15
Ser Gly Ser Lys Asp Arg Gly Val Gln Phe Trp Asp Pro Ile Thr Gly
          20           25           30
Asn Ala Gln Met Met Leu Gln Gly His Lys Asn Ser Gly Gln His Phe
          35           40           45
Phe Pro Tyr Leu Ser Cys His Ser Leu Trp Pro Ile Ser Ser Val Phe
          50           55           60
Gln Cys Leu Thr Gly Phe Tyr Ser His Leu Gly Cys Ser Gln Pro Tyr
65           70           75           80
Arg Gln Phe Val Arg His Gly Gln Trp Arg His Ala Gly Glu Asn Leu
          85           90           95
Glu Val Cys Phe Gly Val Gln Phe Leu Leu Ile Trp Lys Leu Thr
          100          105          110
Pro Gly Cys Arg Trp Gln Ile Leu His Leu Tyr Arg Thr Val Met Gly
          115          120          125
Leu Met Met Gly Ser Phe Gly Ala Asn Val Thr Ser Phe Val Cys Leu
          130          135          140
Ile His Asn Val Val Ala Ser Leu Asn Met Ala Trp Val Cys Phe Cys
145          150          155          160
Val Gln Pro Leu Gln Gly Ser Val Leu Ser His Arg Ser Phe Gly Phe
          165          170          175
Ser Phe Pro Arg
          180

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<210> 32128

<211> 119

<212> PRT

<213> A.fumigatus

<400> 32128

```

Val Trp Asp Ile Ala Ala Arg Thr Ile Lys His Ile Phe Thr Gly His
1           5           10           15
Glu Gln Asp Ile Tyr Ser Leu Asp Phe Ala Gly Asn Gly Arg Tyr Ile
          20           25           30
Ala Ser Gly Ser Gly Asp Lys Thr Val Arg Leu Trp Asp Ile Leu Asp
          35           40           45
Gly Lys Leu Val Tyr Thr Leu Ser Ile Asp Asp Gly Val Thr Thr Val
          50           55           60
Ala Met Ser Pro Asp Gly His Tyr Val Ala Ala Gly Ser Leu Asp Lys
65           70           75           80
Ser Val Arg Val Trp Asp Thr Thr Thr Gly Tyr Leu Val Glu Arg Leu
          85           90           95
Glu Ser Pro Asp Gly His Lys Asp Thr Val Tyr Ser Val Ala Phe Gly
          100          105          110
Ser Gln Trp Ser Gly Ser Gly
          115

```

<210> 32129

<211> 67

<212> PRT

<213> A.fumigatus

<400> 32129

Gly Gly His Ala Asn Val Asp Thr Val Val Ser Asn Ile Arg Pro Ala
 1 5 10 15
 Lys Thr Leu Leu Gly Glu Leu Ala Lys Thr Lys Thr Asn Thr Lys Gln
 20 25 30
 Lys Asn Ala Gln Gln Asn Pro Thr Ser Glu Arg Val Lys Gln Glu Val
 35 40 45
 Asp Ser Asp Leu Ser Leu Asn His Gln Ala Lys Cys Asn Leu Gln Cys
 50 55 60
 Ser Ala Thr
 65

<210> 32130

<211> 91

<212> PRT

<213> A.fumigatus

<400> 32130

Ala Phe Phe Cys Leu Val Phe Val Leu Val Phe Ala Ser Ser Pro Ser
 1 5 10 15
 Asn Val Leu Ala Gly Arg Met Leu Leu Thr Thr Val Ser Thr Leu Ala
 20 25 30
 Trp Pro Pro Tyr Asp Thr Trp Ile Asp Ala Ser Cys Asp Lys Asp Leu
 35 40 45
 Asp Ala Asp Phe Ile Phe Leu Ser Leu Asp Lys Glu Glu Asn Ser Asn
 50 55 60
 Ala Gly Arg Ser Asp Val Ser Asp Ser Asn Ala Tyr Leu Gln Val Leu
 65 70 75 80
 Asp Thr Leu Ala Ser Tyr Asp Leu Ser Ala Gly
 85 90

<210> 32131

<211> 75

<212> PRT

<213> A.fumigatus

<400> 32131

Thr Asp Leu Val Ala Gln Ile Glu Arg Arg Leu Ala Pro Phe Trp Arg
 1 5 10 15
 Gly Leu Asn Asp Phe Ser Glu Ser Trp Thr Glu His Gln Leu Met Ala
 20 25 30
 Ala Ala Arg Gly Leu Pro Ile Pro Pro Pro Asp Glu Ile Pro Pro Glu
 35 40 45
 Leu Glu Tyr Lys Asn Pro Pro Lys Leu Ser Gly Asp Gly Lys Glu Pro
 50 55 60
 Ser Ile Gln His Ser Leu His Arg Gly Met Arg
 65 70 75

<210> 32132

<211> 313

<212> PRT

<213> A.fumigatus

<400> 32132

Ser Leu Arg Lys Val Ser Ala Leu Val Ser Ser Ile Pro Ile Val Ile

12546

```

1           5           10           15
Val Leu Met Val Ser Thr Arg Val Gly Met Ile Leu Ser Arg Tyr Lys
20           25           30
Ser Gly Pro Leu Pro Lys Pro Phe Lys Ile Leu Pro Ser Val Pro Asn
35           40           45
Trp Pro Thr Leu Leu Ser Ile Thr Arg Pro Glu Ser Trp Thr Ala Asn
50           55           60
Ala Val Tyr Ala Gly Thr Arg Ile Phe Ile Ser Ser Lys Pro Ala Val
65           70           75           80
Ala Gln Glu Phe Ile Ser Thr Val Leu Leu Asp Arg Val Arg Glu Glu
85           90           95
Ile His Glu Thr Lys Lys Leu Asn Val His Thr Tyr Asn Ala Leu Lys
100          105          110
Lys Ala Leu Tyr Lys Pro Ala Cys Phe Phe Lys Gly Leu Leu Phe Pro
115          120          125
Leu Val Ser Ser Gly Thr Cys Thr Leu Arg Glu Ala His Ile Val Ser
130          135          140
Ser Val Ile Ala Arg Val Ser Ile Pro Val Leu His Ser Ala Ala Ala
145          150          155          160
Leu Leu Arg Met Cys Asp Leu Ala Ala Glu Gln Ser Leu Arg Ser Leu
165          170          175
Glu Ser Thr Gly Ala Val Asn Val Phe Ile Arg Val Phe Leu Glu Lys
180          185          190
Lys Tyr Ala Leu Pro Tyr Lys Val Ile Asp Ala Leu Val Phe His Phe
195          200          205
Leu Arg Phe Arg Ala Cys Asp Asn Ala Glu Asp Ser Met Met Thr Asp
210          215          220
Gly Pro Ser Gly Ala Ala Thr Lys Ala Tyr Lys Leu Pro Val Leu Trp
225          230          235          240
His Gln Ser Leu Leu Val Phe Ala Gln Arg Tyr Arg Asn Asp Ile Thr
245          250          255
Glu Asp Gln Arg Glu Ala Leu Leu Asp Leu Leu Leu Val Arg Gly His
260          265          270
Lys Asp Ile Gly Pro Glu Val Arg Arg Glu Leu Leu Ala Gly Arg Gly
275          280          285
Arg Gly Val Val Val Pro Asp Pro Glu Lys Gln Gly Ala Leu Asp Ala
290          295          300
Gly Asp Asp Thr Met Asp Val Thr Phe
305          310

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<210> 32133

<211> 61

<212> PRT

<213> A.fumigatus

<400> 32133

```

Leu Cys Arg Asn Val Ser Val Leu Arg Asn Gly Pro Asn Thr Thr His
1           5           10           15
Lys Asn Ser Ser Phe Tyr Ser Lys Phe Asn Ala Lys Asp Ile Gly His
20           25           30
Val Ser Ile Ser Glu Ser Pro Gly Arg Thr Asp Thr Tyr Gln Gly Val
35           40           45
Ala Pro Pro Ile Leu Arg Phe Pro Asn Glu Cys Gln Trp
50           55           60

```

<210> 32134

<211> 240
 <212> PRT
 <213> A.fumigatus

<400> 32134

```

Leu Cys Ser Val Ser Ser Ala Ala Glu Asp Arg Arg Asn Met Pro Ser
1          5          10          15
Leu Trp Gly Phe Ile Leu Ala Ile Leu Gly Met Val Leu Val Leu Ser
          20          25          30
Ile Ile Ile Leu Leu Cys Tyr Gln Phe Val Gln Lys Arg Arg Arg Leu
          35          40          45
Ala Leu Glu Arg Arg Ile Ser Ala Gly Glu Thr Asp Thr Glu Asn Phe
          50          55          60
Gly Leu His His Ile Arg Val Ser Arg Glu Val Leu Asp Gln Ile Pro
65          70          75          80
Thr Tyr Val Tyr Ser Ala Val Asn Ile Pro Ser Lys Val Ser Leu Arg
          85          90          95
Ser Ser Pro Ser Gln Thr Gln Ile Thr Leu Ala Arg Ala Asp Asp Ala
          100          105          110
Ser Ser Ile Arg Ser Val Asp Pro Lys Glu Pro Arg Leu Val Tyr Lys
          115          120          125
Glu Thr Glu Met Gln Ala Ser Ser Ser Thr Ile Arg Leu Pro Glu Thr
          130          135          140
Ala Ile Thr Cys Gln Ser Ser Arg Pro Pro Ser Ala Arg Glu Cys Ser
145          150          155          160
Asp Ser Ala Ser Arg Ser Gln Pro Thr Cys Ala Ile Cys Leu Asp Asp
          165          170          175
Phe Val Ser Gly Ile Thr Ile Val Arg Glu Leu Pro Cys Gly His Ile
          180          185          190
Phe His Pro Ser Cys Ile Asp Val Ser Leu Thr Gln Ile Ser Ser Leu
          195          200          205
Cys Pro Leu Cys Lys Lys Ser Val Leu Pro Ala Glu Tyr Tyr Thr Thr
          210          215          220
Pro Ala Asp Asp Met Gly Val His Arg Asp Tyr Val Val Thr Glu His
225          230          235          240

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<210> 32135
 <211> 132
 <212> PRT
 <213> A.fumigatus

<400> 32135

```

Met Gln Leu Phe Ser Ala Ser Gln Ser Gln Thr Gln Ala Ile Asp Leu
1          5          10          15
Ala Arg Phe Phe Cys Gln Ser Thr Asn Ile Asp Ile Ser Ile Ile Gln
          20          25          30
Thr Gln Lys Lys Glu Glu Ala Arg Asn Leu Pro Ser Lys Leu Val Met
          35          40          45
Leu Pro Leu Asn Pro His Ile Glu His Leu Phe Met Glu Ser Ser Phe
          50          55          60
Pro Pro Arg Pro Leu Gln Pro Leu His Leu Met Leu Leu Gln Pro Ser
65          70          75          80
Pro His Asn Thr Leu Gln Leu Leu Pro Thr Asn Leu Leu Pro Arg Leu
          85          90          95
Gly Leu Leu Val Arg Phe Asp Thr Arg Leu Glu Ser Arg Leu His Ala
          100          105          110

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12548

Asn Pro Gln Arg Arg Leu Lys Thr Lys Thr Thr Arg Val Ala Ala His
 115 120 125
 Leu Asp His Ala
 130

<210> 32136
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 32136
 Cys Phe Ile Ala Ser Arg Lys Arg Ala Tyr Met His Arg Val Thr Glu
 1 5 10 15
 Gly Ile Arg Pro Ile Leu Pro Leu Val Phe Asp Ser Ser Asp Asp Val
 20 25 30
 Arg Ile Ile Thr Leu Ile Arg Leu Lys Ser Pro Ser Thr Lys Ser Tyr
 35 40 45
 Leu Arg Pro Ser Leu Tyr Asn Phe Val Arg Tyr Arg Val Ala
 50 55 60

<210> 32137
 <211> 505
 <212> PRT
 <213> A.fumigatus

<400> 32137
 Leu Ser Asp Ala Asn Thr Pro Pro Val Arg Gly Ser Ser Pro Arg Ser
 1 5 10 15
 Ile Leu Tyr Leu Ile Arg Ser Ala Thr Thr Tyr Ile Met Ser Gln Glu
 20 25 30
 Ser Gln Leu Ser Gln Thr Ser Leu Ala Pro Pro Leu Glu Leu Ser Gly
 35 40 45
 Pro Ala Thr Pro Asp Arg Arg Pro Ser Leu Ser Ala Ser Pro Glu Leu
 50 55 60
 Asp Glu Lys Val Gln Val Gln Val Ser Gln Ala Asp Gln Arg Lys Leu
 65 70 75 80
 Val Ser Pro Pro Ser Leu Ala Ser Ser Asp Met Thr Pro Pro Pro Ser
 85 90 95
 Ser Gln Val Pro Gly Ala Pro Leu Arg Arg Ser Arg Ser Arg Ser Thr
 100 105 110
 Thr Tyr Leu Ala Ser Pro Pro Asp Ile Glu Lys Thr Leu Cys Ala Ala
 115 120 125
 Tyr Gly Ala Ser Glu Asn Leu Pro Ser Val Gly Asp Ile Asp Thr Ala
 130 135 140
 Gly Glu Pro Glu Leu Arg Ile Ile Ala Lys Glu Leu Leu Ser Val Ala
 145 150 155 160
 Gln Glu Ala Arg Met Ser Ala Leu His Phe Lys Leu Gln Asn Ser Leu
 165 170 175
 Leu Ser Phe Thr Ser Asn Glu Ala Ile Lys Arg Ala Glu Val Glu His
 180 185 190
 Gln Leu Ala Arg Arg Glu Val Glu Ile Leu Gln Ser Ser Glu Tyr Arg
 195 200 205
 Asn Arg His Gly Pro Thr Glu Val Lys Pro Leu Gln Pro Ile Ser Asn
 210 215 220
 Ala Glu Leu Glu Ala Ala Leu Arg Arg Asn Gln Glu Leu Glu Arg Val
 225 230 235 240

12549

```

Asn Ala Thr Leu Asp Arg Arg Leu Arg Arg Ala Lys Lys Leu Ile Glu
      245                      250                      255
Gln Glu Lys Glu Lys Ser Glu Leu Leu Met Glu Glu Asn Asn Leu Leu
      260                      265                      270
Lys Lys Arg Ile Arg Glu Asn Arg Glu His Phe Ser Arg Met Ile Glu
      275                      280                      285
Arg Gly Ser Met Ser Pro Ser Pro Gln Ile Gln Ser Gly Thr Pro Gln
      290                      295                      300
Arg Lys Pro Val Pro His Phe His Asp Ser Pro Ser Pro His Met Ser
305                      310                      315                      320
Arg Gly Glu Ser His Pro Phe Asp Ala Leu Leu Ala Ala Asp Arg Val
      325                      330                      335
Leu Asn Arg Gly Ser Ser Asp Phe Gln Ser Ser Pro Gln Arg Phe Ser
      340                      345                      350
Gln Arg Gln His Ser Asn Gly His Val Arg Gly Thr His Ser Leu Ser
      355                      360                      365
Ser Leu Pro Met Thr Pro Ser Gln Pro Arg Thr Thr Pro Arg Glu His
      370                      375                      380
Leu Phe Phe Thr Pro Thr Arg Asn Thr Gln Tyr Glu Gln Arg Asp Arg
385                      390                      395                      400
Asp Ser Thr Ile Ser Ala Ser Asp Ile Glu Glu Ala Glu Thr Glu Glu
      405                      410                      415
Asp Ile Pro Ala Ser Gln Pro Asp Ser Pro Ala Thr Ser Met Val Arg
      420                      425                      430
Pro Asp Pro Val Ile Ser Gln Gln Gln Thr Arg Ser Ala Ala Ile Ala
      435                      440                      445
Pro Lys Thr Ser Thr Leu Leu Pro Thr Lys Leu Phe Gly Gln Val Arg
      450                      455                      460
Asn Ala Gly Val Asp Arg Pro Pro Ser Gly Leu Lys Arg Ile Ala Ser
465                      470                      475                      480
Ile Asp Glu Ser Ala Ala Ser Lys Ile Ser Asn Ala Ala Asp Gly Val
      485                      490                      495
Gly Leu Gly Ile Glu Ala Tyr Thr Ser
      500                      505

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<210> 32138

<211> 78

<212> PRT

<213> A.fumigatus

<400> 32138

```

Leu Met Phe Asn Phe Gly Ala Leu Asp Cys Phe Ile Thr Cys Glu Arg
1           5           10           15
Gln Lys Ala Ile Leu Lys Phe Glu Met Gln Arg Arg His Thr Ser Phe
      20           25           30
Leu Arg Asn Thr Glu Glu Leu Phe Gly Asp Tyr Thr Gln Leu Gly Leu
      35           40           45
Ala Ser Ser Val Asn Val Thr Asp Arg Trp Lys Ile Leu Arg Gly Thr
      50           55           60
Val Cys Ser Ala Gln Ser Leu Phe Asn Ile Trp Arg Arg Cys
65           70           75

```

<210> 32139

<211> 221

<212> PRT

<213> A.fumigatus

<400> 32139

```

Ser Ser Thr Arg Ser Ser Leu Ser Leu Leu Gln Ser Pro Thr Met Ser
1          5          10          15
Asp Ser Asn Pro Asp Glu Thr His Lys Cys Gln Ser Cys Lys Lys Ala
          20          25          30
Glu Ser Lys Ser Val Pro Leu Arg Asn Cys Phe Arg Cys Lys Ser Ala
          35          40          45
Ile Tyr Cys Ser Arg Asp Cys Gln Lys Ala Asp Arg Lys Thr His Lys
          50          55          60
Lys Val Cys Ala Ser Asn Ala Gln Ala Asn Thr Gly Ser Asn Asn Gln
65          70          75          80
Ser Ala Ser Asp Thr Asn Ala Thr Gln Ser Thr Lys Ala Leu Glu Val
          85          90          95
Asp Asp Phe Leu Lys Pro Phe Tyr Arg Leu His Ala Lys Thr Trp Leu
          100          105          110
His Asp His Thr Glu Lys Glu Thr Tyr Lys Leu Leu Ile Asp Thr Tyr
          115          120          125
Arg Leu Arg Leu Asp Asp Asp Tyr Thr Phe Ser Gly Asp Ile His Glu
          130          135          140
Asp Asn Ile Tyr Gly Gly Ala Thr Asp Asp Gly Arg Ala Gly Phe Arg
145          150          155          160
Arg Phe Leu Lys Ser Val Glu Arg Lys Pro His Leu Leu Pro Arg Trp
          165          170          175
Trp Thr Pro Ala Lys Ala Glu Glu Cys Ile Arg Tyr Gly Lys Asn Ser
          180          185          190
Thr Asn Trp Ser Tyr Leu Gly Tyr Thr Val Glu Lys His Asp Val Val
          195          200          205
Glu His Tyr Ala Asn Asn Leu Met Pro Ile Gln Leu Arg
          210          215          220

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<210> 32140

<211> 116

<212> PRT

<213> A.fumigatus

<400> 32140

```

Leu Asp Ser Pro Phe Glu Arg Ser Trp Leu Asp Leu Pro Asn Met Glu
1          5          10          15
Gly Asn Thr Ala Ala Asn Ala Gln Ser Leu Ser Pro Glu Pro Ser Ala
          20          25          30
Arg Gly Pro Arg Gln Lys Ser Thr Gly Lys Ala Lys Ser Val Asp Pro
          35          40          45
Asp Asn Gly Pro Thr Ser Lys Arg Arg Cys Val Ser Thr Ala Cys Ile
          50          55          60
Ala Cys Arg Arg Arg Lys Ser Lys Val Met Ser Trp His Phe Arg Leu
65          70          75          80
Val Leu Tyr Leu His His Ile Leu Thr Lys Phe Leu Pro Val Arg Trp
          85          90          95
Glu Ser Ala Glu Leu Cys Arg Met Phe Ile Arg Leu Ser Tyr Thr Leu
          100          105          110
Tyr Gly Glu Glu Pro
          115

```

<210> 32141

<211> 182

12551

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (131), (132)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32141

```

Ile Trp Ile Pro Thr Ala Trp Glu Leu Val Ser Leu Pro Thr Lys Asn
1           5           10           15
Trp Met His Asp Glu Ser His Phe Gly Ala Val Ser Ser Leu Ile Ser
          20           25           30
Leu Ser Pro Leu Phe Lys Ser His Phe Phe Gly Cys Ile Ser Asp Glu
          35           40           45
Asp Arg Cys Trp Ser Asn Tyr Leu Gly Arg Gln Pro Gln Leu Leu Thr
          50           55           60
Ser Gln Val Cys Val Pro Lys Ile Asp Ile Leu Pro Asn Glu Glu Ala
          65           70           75           80
Glu Leu Trp Ser Pro Tyr Thr Asp Ser Gly Pro Ser Gln Asp Asn Thr
          85           90           95
Gln Pro Ser Arg Ile Arg Thr Val Ala Leu Gln Leu Ala Lys Leu Ser
          100          105          110
Glu Ile Ser Gly Asp Leu Leu Gly Tyr Phe Tyr Asp Pro Ser Pro Thr
          115          120          125
Asp Arg Xaa Xaa Asn Lys Gln Ala Asp Leu Lys Lys Leu Ser Glu Ile
          130          135          140
His Thr Arg Leu Glu Ala Trp Lys Lys Gly Leu Pro Lys Glu Leu Glu
          145          150          155          160
Thr Ser Arg Arg Pro Ala Ser Ser Gly Ser Cys Tyr Ala Val Ser Lys
          165          170          175
Gln Ala Leu Ser Pro Gln
          180

```

<210> 32142

<211> 90

<212> PRT

<213> A.fumigatus

<400> 32142

```

Cys Leu Asp Pro Ser Ser Thr Ile Pro Pro Pro Leu Arg Val Glu Thr
1           5           10           15
Pro Trp Cys Asp His Thr Leu Phe Thr Glu Tyr Ile Gln Phe Tyr Pro
          20           25           30
Gln Phe Ala Ile Cys Glu Tyr Thr Gln Met Asn Met Gly Thr Lys Phe
          35           40           45
Ala Cys Val Asn Leu Gln Ser Gln Ser Lys Arg Trp Ser Ser Gly Ser
          50           55           60
Glu Ser Leu Leu Thr Ala Pro Arg Leu Asn Met His Val Leu Met Phe
          65           70           75           80
Leu Gln Pro Phe Gln Val Arg Ser Thr Pro
          85           90

```

<210> 32143

<211> 404

<212> PRT

<220>

<222> (389)

<223> Identity of amino acid sequences at the above locations are unknown.

Ala Ser Lys His Ser Val His Asn Glu Thr Leu Pro Leu Met Ile Val
1 5 10 15

Asn Ser Met Phe Tyr Gln Leu Leu Phe Ile His Leu Tyr Arg Pro Phe
20 25 30

Leu Arg Tyr Thr Lys Ser Ser Pro Leu Pro Gln His Val Ser Pro

Arg Arg Ile Cys Thr Gln Ala Ala Ala Thr Ile Ser Lys Leu Leu Arg
50 55 60

Met Tyr Lys Arg Thr Tyr Gly Phe Lys Gln Ile Val Asn Val Ala Val
65 70 75 80

Tyr Ile Ala His Thr Ala Cys Thr Ile His Leu Leu Asn Leu Pro Glu
85 90 95

Lys Asn Ala Gln Arg Asp Leu Ile His Gly Leu Arg Asn Leu Asp Glu
100 105 110

Met Gly Glu Ser Trp Leu Cys Ala Arg Arg Thr Leu Arg Ile Leu Asp
115 120 125

Ile Ser Ala Asn Asn Trp Gln Ile Glu Leu Pro Thr Glu Ala Ser Ser
130 135 140

Val	Phe	Glu	Gln	Thr	His	Ala	Lys	Trp	Gly	Pro	Trp	Gly	Ser	Trp	Asp
145					150					155					160

Gln Ala Val Ser Pro Ser Thr Ser Glu Glu Ser Pro Pro Thr Val Ser
165 170 175

Val Gln Leu Pro Ser Ser Ala Ser Ala Tyr Ile Pro Pro Ala Pro Gly
180 185 190

Gly	Ala	Ser	Ile	Thr	Gln	Pro	Gly	Val	Ser	Pro	Gln	Asn	Leu	Ser	Thr
		195					200					205			

Ser Ala Ser Tyr Gln Gly Asn Gln Gln Tyr Arg Ser Glu Val Ser Phe
210 215 220

Pro	Thr	Ser	Leu	Ser	Ala	Met	Arg	Ala	Ala	His	Arg	Ser	Phe	Thr	Ala
225					230					235					240

Gln Ile Ser Arg Ala Asp Gly Pro Leu Pro Glu Pro Thr Tyr Leu Arg
245 250 255

Pro	Val	Pro	His	Ser	Tyr	Arg	Pro	Val	Gln	Ala	Phe	Pro	Leu	Thr	Gln
			260					265					270		
						Ala	Gln	Val	Asp	Thr	Phe	Ser	Thr	Asp	Lys

[illegible]

Asn	Thr	Ala	Ser	Ala	Thr	Glu	Ala	Ser	Pro	Leu	Thr	Gly	Phe	Asp	Glu
	290					295					300				
Ser	Gly	Leu	Leu	Met	Gly	Gly	Ser	His	Asp	Trp	Trp	Ser	Arg	Asn	Pro

Ser	Glu	Asn	Leu	Val	Glu	Glu	Ser	His	Asp	Trp	Trp	Ser	Arg	Asn	Phe
305					310					315					320
Leu	Ala	Leu	Leu	Ser	Met	Gly	Thr	Glu	Asp	Trp	Glu	Gln	Arg	Leu	Asn

Asn	Ala	Leu	Leu	Ser	Met	Gly	Thr	Glu	Asn	Trp	Glu	Gln	Arg	Leu	Asn
				325					330					335	
Pro	Ser	Phe	Thr	Gly	Pro	Ala	Ser	Ser	Met	Arg	Tyr	Asp	Thr	Ser	Val

Pro	Ser	Phe	Thr	Gly	Pro	Ala	Ser	Ser	Met	Arg	Tyr	Asp	Thr	Ser	Val
			340					345					350		
Leu	Arg	Ser	Gly	Gln	Ser	Ser	Gly	Pro	Asp	Ser	Thr	Pro	Gly	Ala	Pro

Leu Asn Ser Gly Gln Ser Ser Gly Pro Asp Ser Thr Pro Gly Ala Pro
355 360 365
Gln Ala Phe Arg Tyr Pro Val Gly Val Pro Pro Asn Leu Thr Asp Ser

Gln Ala Phe Arg Tyr Pro Val Gly Val Phe Phe Asn Leu Thr Asp Ser
370 375 380

12553

Glu Gln Gly Pro Xaa Ile Ser Gly Tyr Asn Asn Ile Gly Leu Pro Gly
 385 390 395 400
 Asp Phe Gln Arg

<210> 32144
 <211> 334
 <212> PRT
 <213> A.fumigatus

<400> 32144
 Pro Gln Gly Val Tyr Asp Pro Asn Ser Asp His Arg Arg Lys Gly Val
 1 5 10 15
 Tyr Lys Lys Asp Thr Ala Asn Leu Arg Thr Lys Asn Ser Thr Leu His
 20 25 30
 Thr Leu Ile Gln Ala Leu Leu Asn Tyr Asp Glu Glu Asp Ala Phe Asp
 35 40 45
 Leu Val Arg Gln Ile Arg Ser Cys Asp Ser Leu Glu Asp Val Ala Glu
 50 55 60
 Ser Ile Val Ser Arg Asp Lys Gly Pro Thr Pro Gly Glu Val Phe Pro
 65 70 75 80
 Ser Gly Asp Glu Ser Ser Thr His Glu Asp Gln Phe Val Ser Thr Leu
 85 90 95
 Ala Gly Arg Met Gly Glu Leu Met Leu Asp Gly Ser Arg Lys Tyr Ile
 100 105 110
 Gly Gly Thr Ser Asn Leu Ile Phe Leu Pro Ser Gly Ser Asp Leu Asn
 115 120 125
 Glu Phe Asp Ser Ser Leu Lys Gly Arg Pro Leu Asp Arg Ser His Glu
 130 135 140
 Tyr Ser Val Ser Arg Trp Thr Arg Val Thr Asp Asp Glu Gln Leu Ile
 145 150 155 160
 Ser His Leu Met Thr Met Tyr Phe Thr Trp His Tyr Pro Phe Phe Thr
 165 170 175
 Thr Ile Pro Lys Asp Leu Phe Tyr Arg Asp Tyr Val Arg Gly Val Ser
 180 185 190
 Ser Gln Tyr Cys Ser Ser Leu Leu Val Asn Ala Met Leu Ala Leu Gly
 195 200 205
 Cys His Phe Ser Ser Trp Lys Gly Ala Arg Ala Asp Pro Ser Asn Ser
 210 215 220
 Ala Thr Ala Gly Asp His Phe Phe Lys Glu Ala Lys Arg Leu Val Leu
 225 230 235 240
 Glu Asn Asp Glu His Glu Asn Ala Lys Leu Cys Thr Val Gln Ala Leu
 245 250 255
 Ala Leu Leu Ser Val Arg Glu Ala Gly Cys Gly Arg Glu Gly Lys Gly
 260 265 270
 Trp Val Tyr Ser Gly Met Ser Phe Arg Met Ala Phe Asp Leu Gly Leu
 275 280 285
 Asn Leu Asp Ser Asn Ser Leu Gly Thr Arg Lys Leu Ala Asp Glu Glu
 290 295 300
 Leu Asp Ala Arg Arg Ile Thr Phe Trp Gly Cys Phe Leu Phe Asp Lys
 305 310 315 320
 Phe Val Pro Pro Phe Gln Ile Thr Leu Phe Arg Val Tyr Leu
 325 330

<210> 32145
 <211> 88

<212> PRT

<213> A.fumigatus

<400> 32145

Ala Arg Leu Ser Ser Ser Leu Gln Gly Pro Thr Asn Lys Asn Val Leu
 1 5 10 15
 Gly Gln Trp Val Val Gly Ala Cys Asp Ala Ala His Val Thr Gly Ala
 20 25 30
 Phe Glu His Ser Leu Ile Phe Gln His Ser Glu Leu Pro Ile Gln Tyr
 35 40 45
 Lys Leu Gln Ser Leu Leu Arg Ser Ile Ser Ser Ser Ile Lys Ser Asn
 50 55 60
 Ala Glu Ile Asp Ala Ala Asn Ser Arg Gly Gly Leu Ile Leu Ser Glu
 65 70 75 80
 Tyr Val Pro Asn His Arg Lys Ala
 85

<210> 32146

<211> 73

<212> PRT

<213> A.fumigatus

<400> 32146

Ser Val Val Lys Arg Leu Thr Ile Gly Pro Ala Gly Leu Ala Asp Gly
 1 5 10 15
 Lys Ile Gly Leu Leu Trp Gln Pro Asn Ser Gly Lys Arg Asp Ser His
 20 25 30
 Arg Asn His Arg Ala Glu Trp Gly Thr Arg Glu Asp Glu Ile Ala His
 35 40 45
 Ser Gly Gly Gly His Tyr Tyr Pro Pro Thr Ser His Ser Thr Asp Ser
 50 55 60
 Leu Ile Leu Asn His Leu Arg Gln Leu
 65 70

<210> 32147

<211> 300

<212> PRT

<213> A.fumigatus

<400> 32147

Gly Ile Cys Leu Ile Ile Asn Leu His Ser Tyr His Ile Pro Pro Thr
 1 5 10 15
 Tyr His Leu Pro Gln Ala Ser Arg Gly Arg Cys Cys Ser Ala Val His
 20 25 30
 Gln Arg Thr Ile Ile Leu Lys Ser Phe Lys Met Glu Ser Lys Trp Lys
 35 40 45
 Asp Ile Val Ala Ser Tyr Pro Pro Gln Ala Ile Glu Phe Val Gly Thr
 50 55 60
 Val Leu Val Gln Val Ile Ser Phe Trp Leu Pro Ser Leu Cys Tyr Leu
 65 70 75 80
 Ser Leu Asp Ala Leu Phe Pro Ser Phe Ser Gln Arg His Lys Leu Gln
 85 90 95
 Pro Ala Leu Arg Gln Pro Gly Arg Arg Asp Ile Trp Gln Cys Phe Val
 100 105 110
 Val Val Val Gln Asn Ser Val Leu Ser Met Gly Leu His Leu Phe Gln
 115 120 125

12555

```

Ile Phe Val Leu Gln Arg Gly Thr Ser Ala Phe Arg Ile Gln Ala Ser
  130                      135                      140
Leu Pro Pro Leu Ala Glu Phe Leu Arg Asp Phe Ile Leu Cys Ile Leu
145                      150                      155                      160
Leu Arg Glu Ala Leu Phe Tyr Tyr Ser His Arg Phe Leu His Ser Pro
                      165                      170                      175
Phe Phe Tyr Ala Arg Ile His Lys Arg His His Lys Phe Thr Ala Pro
                      180                      185                      190
Ile Ala Leu Ala Ala Gln Tyr Ala His Pro Ile Glu His Ile Val Ala
                      195                      200                      205
Asn Ser Leu Pro Ile Ser Leu Pro Pro Gln Ile Leu Gly Ser His Ile
210                      215                      220
Leu Thr Phe Trp Ala Phe Leu Ala Tyr Glu Leu Ala Asn Thr Ala Thr
225                      230                      235                      240
Val His Ser Gly Tyr Asp Phe Phe Lys Asn Lys Ala Lys Met His Asp
                      245                      250                      255
Leu His His Glu Lys Phe Asn Leu Asn Tyr Gly Ser Ile Gly Leu Leu
                      260                      265                      270
Asp Trp Leu His Gly Thr Asp Lys Leu Glu Lys Lys Arg Lys Asp Val
275                      280                      285
Phe Thr Thr Gly Gly Ala Gly Ser Ala Leu Lys Tyr
290                      295                      300

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<210> 32148

<211> 415

<212> PRT

<213> A.fumigatus

<400> 32148

```

Ser Arg Ile Ser Ile Gly Asp Pro Ala Arg Ser Val Gly Glu Asn Asp
1      5      10      15
Asp Asp Arg Glu Ser Asp Ile Leu Asn Ser Glu Ser Leu Leu Gln
20     25     30
Val Gly Ser Arg Arg Arg Leu Gly Ala Leu Leu Val Asp Gly Leu His
35     40     45
Ala Ser Ser Lys Gln Leu Thr Val Leu Gly Arg Asp Asp Gly Val Asn
50     55     60
Gly Arg Thr Lys Asp Leu Asp Thr Glu Gly Phe Lys Leu Ile Leu Glu
65     70     75     80
Leu Asp Thr Asp Leu Lys Gly Gly Leu Thr Thr Lys Cys Asp Ile Asp
85     90     95
Gly Ile Arg Ala Leu Val Leu Asp Asp Leu Ala His Glu Leu Gly Val
100    105    110
Asp Arg Glu Glu Val Asn Leu Ile Arg Lys Thr Leu Gly Ser Leu Asp
115    120    125
Ser Gly Asn Ile Gly Ile Asp Glu Asp Ser Val Asp Ser Phe Phe Leu
130    135    140
Gln Gly Leu Asp Ser Leu Ala Thr Arg Val Val Glu Phe Ser Ser Leu
145    150    155    160
Thr Asn Ala Glu Ala Thr Ala Ser Gln Asp Gln Asn Leu Leu Asp Arg
165    170    175
Asp Thr Trp Arg Cys Leu Asp Val Leu Cys Leu Arg Ser Ala Arg Glu
180    185    190
Arg Asp Arg Leu Leu Lys Ser Ile Arg Arg Gly Lys Ser Val Leu Asp
195    200    205
Ser Val Asp Glu His Ile Glu Glu Val Leu Ser Val Pro Gly Thr Arg

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      210              215              220
Ser Ala Phe Gly Met Glu Leu Tyr Thr Glu Glu Arg Ala Ala His Met
225              230              235              240
Pro Asp Thr Leu Ile Ala Ala Ile Val Cys Val Asp Glu Lys Phe Leu
      245              250              255
Pro Ala Leu Trp Glu Ser Arg Gly Ile Asp Ser Val Thr Val Ile Leu
      260              265              270
Gly Gly Asp Val Ala Leu Ala Arg Gln His Ala Gly Thr Gly Asp Val
      275              280              285
Val Thr Ala Val Thr Glu Leu His Leu Glu Arg Leu Gly Thr Asn Gly
      290              295              300
Thr Ser Asn Gln Leu Val Ala Gln Ala Asn Thr Lys Asp Arg Ser Ser
305              310              315              320
Gly Leu Leu Gln Gly Leu Gly Gln Ile Val His Ser Phe Arg Glu His
      325              330              335
Arg Trp Val Thr Arg Thr Val Arg His Lys Gln Thr Val Val Val Leu
      340              345              350
Ala Gly Lys Leu Gly Glu Ile Val Val Pro Arg His Asn Glu Asn Leu
      355              360              365
Asn Thr Thr Ser Lys Gln Ala Thr Gln Leu Val Glu Leu His Thr Asn
      370              375              380
Val Gln Ala Lys Asp Thr Asn Arg Ala Ala Arg Trp Val Phe Glu Cys
385              390              395              400
Asp Ile Leu Gly Gly Cys Glu Lys Ala Arg Leu Thr Asp Arg Asn
      405              410              415

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<210> 32149

<211> 286

<212> PRT

<213> A.fumigatus

<400> 32149

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Ser Glu Pro Leu Ala Asn Leu Ser Pro Arg Gly Pro Phe Pro Pro Pro
1              5              10              15
Ser Glu Thr Ala Met Pro Gln Ser Ala Gly Asn Asp Glu Val Ala Leu
      20              25              30
Pro Ser Ser Pro Leu Ser Gly Gly Ala Val Ser Tyr Asn Gln Ile Asn
      35              40              45
Lys Glu Leu Gln Pro Leu Pro Ser Met Asp Ser Gly Asn Gly Ala Val
      50              55              60
Ile Pro Pro Ala Ser Ala Arg Val Arg Gly Ser Ser Gly Lys Met Phe
65              70              75              80
Ala Leu Glu Leu Glu Asp Gly Thr Ile Tyr Gln Gly Tyr Ser Phe Gly
      85              90              95
Ala Asp Lys Ser Val Ala Gly Glu Leu Val Phe Gln Thr Gly Met Val
      100              105              110
Gly Tyr Pro Glu Ser Ile Thr Asp Pro Ser Tyr Arg Gly Gln Ile Leu
      115              120              125
Val Ile Thr Phe Pro Leu Val Gly Asn Tyr Gly Val Pro Ser Arg Glu
      130              135              140
Thr Met Asp Glu Leu Leu Lys Thr Leu Pro Lys Tyr Phe Glu Ser Thr
145              150              155              160
Glu Ile His Val Ala Ala Leu Val Val Ala Thr Tyr Ala Gly Glu Asp
      165              170              175
Tyr Ser His Phe Leu Ala Glu Ser Ser Leu Gly Gln Trp Leu Lys Glu
      180              185              190

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12557

Gln Gly Val Pro Ala Met His Gly Val Asp Thr Arg Ala Leu Thr Lys
 195 200 205
 Arg Ile Arg Glu Lys Gly Ser Met Leu Gly Arg Met Met Leu Ser Lys
 210 215 220
 Ser Glu Ile Ala Asp Gly Val Val Glu Met Thr Pro Gly Asp Lys Asp
 225 230 235 240
 Ser Trp Arg Ser Ser Phe Glu Gln Val Glu Trp Val Asp Pro Asn Lys
 245 250 255
 Lys Asn Leu Val Ser Glu Gly Arg Val Phe Asn Thr Arg Asn Ala Leu
 260 265 270
 Leu Lys Gly Ser Ile Ser Asp Ile Val Leu Ser Phe Asp Pro
 275 280 285

<210> 32150

<211> 413

<212> PRT

<213> A.fumigatus

<400> 32150

Ser Ser Val Ser Ile Arg Glu Pro Arg Leu Phe Thr Pro Pro Glu Asn
 1 5 10 15
 Val Ala Leu Lys His Pro Ser Gly Arg Pro Val Arg Val Leu Cys Leu
 20 25 30
 Asp Val Gly Met Lys Phe Asn Gln Leu Arg Cys Leu Leu Ala Arg Gly
 35 40 45
 Val Glu Val Leu Val Val Pro Trp Asp Tyr Asp Phe Pro Lys Leu Ala
 50 55 60
 Gly Lys Asp Tyr Asp Gly Leu Phe Val Ser Asn Gly Pro Gly Asp Pro
 65 70 75 80
 Ala Met Leu Ser Glu Thr Val Asn Asn Leu Ser Lys Thr Leu Lys Glu
 85 90 95
 Ala Arg Thr Pro Val Phe Gly Ile Cys Leu Gly His Gln Leu Ile Ala
 100 105 110
 Arg Ser Val Gly Ala Gln Thr Leu Lys Met Lys Phe Gly Asn Arg Gly
 115 120 125
 His Asn Ile Pro Cys Thr Ser Met Leu Ser Gly Lys Cys His Ile Thr
 130 135 140
 Ser Gln Asn His Gly Tyr Ala Val Asp Ser Ser Thr Leu Pro Glu Gly
 145 150 155 160
 Trp Glu Glu Leu Phe Val Asn Ala Asn Asp Gly Ser Asn Glu Gly Ile
 165 170 175
 Arg His Val Ser Arg Pro Phe Phe Ser Val Gln Phe His Pro Glu Ser
 180 185 190
 Thr Pro Gly Pro Arg Asp Thr Glu Tyr Leu Phe Asp Val Phe Ile Asn
 195 200 205
 Thr Ile Lys Asp Thr Leu Thr Ser Ser Asp Ala Leu Gln Lys Pro Val
 210 215 220
 Ser Phe Pro Gly Gly Thr Lys Ala Glu Asn Ile Lys Thr Ser Pro Arg
 225 230 235 240
 Val Ser Val Lys Lys Val Leu Ile Leu Gly Ser Gly Gly Leu Ser Ile
 245 250 255
 Gly Gln Ala Gly Glu Phe Asp Tyr Ser Gly Ser Gln Ala Ile Lys Ala
 260 265 270
 Leu Lys Glu Glu Gly Ile Tyr Thr Ile Leu Ile Asn Pro Asn Ile Ala
 275 280 285
 Thr Ile Gln Thr Ser Lys Gly Leu Ala Asp Lys Val Tyr Phe Leu Pro

12558

290 295 300
 Val Asn Ala Glu Phe Val Arg Lys Val Ile Lys His Glu Arg Pro Asp
 305 310 315 320
 Ala Ile Tyr Val Thr Phe Gly Gly Gln Thr Ala Leu Gln Val Gly Ile
 325 330 335
 Gln Leu Lys Asp Glu Phe Glu Ser Leu Gly Val Lys Val Leu Gly Thr
 340 345 350
 Pro Ile Asp Thr Ile Ile Thr Thr Glu Asp Arg Glu Leu Phe Ala Arg
 355 360 365
 Ser Met Glu Ser Ile Asn Glu Lys Cys Ala Lys Ser Ala Ser Ala Ser
 370 375 380
 Asn Leu Glu Glu Ala Leu Arg Val Val Glu Asp Ile Gly Phe Pro Val
 385 390 395 400
 Ile Val Val Phe Thr Asn Arg Pro Gly Arg Ile Pro Asp
 405 410

<210> 32151

<211> 144

<212> PRT

<213> A.fumigatus

<400> 32151

Arg Lys Lys Glu Ser Thr Leu Ser Ser Ser Ile Pro Ile Leu Pro Leu
 1 5 10 15
 Ser Arg Leu Pro Arg Val Leu Arg Ile Arg Phe Thr Ser Ser Arg Ser
 20 25 30
 Thr Pro Ser Ser Cys Ala Arg Ser Ser Ser Thr Ser Ala Leu Met Pro
 35 40 45
 Ser Met Ser His Leu Val Val Arg Pro Pro Phe Lys Ser Val Ser Ser
 50 55 60
 Ser Arg Met Ser Leu Asn Pro Ser Val Ser Arg Ser Leu Val Arg Pro
 65 70 75 80
 Leu Thr Pro Ser Ser Arg Pro Arg Thr Val Ser Cys Leu Leu Glu Ala
 85 90 95
 Trp Ser Pro Ser Thr Arg Ser Ala Pro Ser Leu Arg Leu Leu Pro Thr
 100 105 110
 Trp Arg Arg Leu Ser Glu Leu Leu Arg Ile Ser Asp Ser Arg Ser Ser
 115 120 125
 Ser Phe Ser Pro Thr Asp Leu Ala Gly Ser Pro Ile Glu Ile Arg Glu
 130 135 140

<210> 32152

<211> 99

<212> PRT

<213> A.fumigatus

<400> 32152

Val Leu Val Asp Gly Pro Ser Thr Glu Glu Asn Lys Ile Val Pro Arg
 1 5 10 15
 His Ala Leu Pro Leu Ala His Ala Thr Leu Thr Pro Phe Val Ile Pro
 20 25 30
 Lys Leu Pro Arg Ala Ala Gly Thr Gly Pro Val Lys Lys Leu Trp Glu
 35 40 45
 Lys Asn Glu Ile Asp Gly Lys Trp Ala Lys Ser Thr Ile Ala Gln Lys
 50 55 60
 Thr Glu Arg Ala Glu Arg Arg Lys Asn Leu Thr Asp Phe Glu Arg Phe

[illegible]

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<210> 32153
<211> 75
<212> PRT
<213> A.fumigatus
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<210> 32154
<211> 159
<212> PRT
<213> A.fumigatus
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<210> 32155
<211> 262
<212> PRT
<213> A.fumigatus
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12560

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Asn Gln Ser His Gln Asn Arg Phe Gln Arg Ala Asn Thr Phe Gln Phe
1          5          10          15
Pro Phe Lys Gly Gly Thr Ser Ser Ile Asp Gly Asn Val Cys Val Ala
20          25          30
Ser Leu Val Asp Thr Lys Asp Val Ile Leu Arg Asn Phe Gly Arg Pro
35          40          45
Val Gln Ala Val Ala Leu Ser Pro Glu Tyr Lys Asn Asp Arg Thr Phe
50          55          60
Leu Ser Gly Gly Arg Ala Gly Asp Leu Ile Leu Thr Thr Gly Gly Arg
65          70          75          80
Val Gly Val Ser Thr Asn Ser Thr Thr Met Gly Gly Ala Ala Ala Ala
85          90          95
Ala Ser Ser Trp Leu Gly Ser Ile Gly Leu Gly Ala Asn Thr Gly Lys
100         105         110
Asp Thr Ile Leu His Ser Gly Glu Gly Ala Ile Ser Thr Ile Lys Trp
115         120         125
Ser Leu Ser Gly Lys Tyr Val Trp Val Asn Glu Glu Gly Ile Lys
130         135         140
Ile Met Arg Ser Asn Leu His Leu Asp Ser Ala Asp Ser Glu Leu Ala
145         150         155         160
Trp Lys Arg Ile Ser His Ile Asp Arg Pro Asn Gly Pro Gly Trp Glu
165         170         175
Glu Met Ala Ser Val Trp Arg Ala Arg Ala Glu Trp Val Asp Glu Asp
180         185         190
Ser Leu Arg Trp Glu Asp Asn Val Asn Ser Gln Gln Asp Glu Pro His
195         200         205
Leu Asn Thr Pro Ala Pro Pro Asp Ile Val Ala Met Lys Glu Asn Val
210         215         220
Glu Arg Leu Val Val Gly Trp Gly Gly Thr Val Trp Val Ile Asn Val
225         230         235         240
Tyr Pro Asp Arg Pro Asn Lys Asn Asn Lys Asp Leu Lys Ile Gly Ser
245         250         255
Val Gln Val Ser Thr Met
260

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<210> 32156

<211> 266

<212> PRT

<213> A.fumigatus

<400> 32156

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Glu Phe Asp Glu Ile Ser Ser Val Ile Pro Ala Asp Phe His Pro Ser
1          5          10          15
Leu Ser Gln Asp Ile Tyr Glu Glu Ile Leu Gly His Tyr Val Ser Arg
20          25          30
Asp Arg His Arg Phe Ser Glu Leu Leu Asp Thr Trp Pro Phe Thr Leu
35          40          45
Phe Asp Val Asn Ser Val Thr Ala Val Glu Glu Gln Leu Asp Pro
50          55          60
Arg Thr Val Ser Pro Glu Thr Glu Asp Trp Arg Ile Leu Thr Lys Cys
65          70          75          80
Leu Ala Lys Leu Tyr Leu Ala Gly Gly His Tyr Asn Glu Ala Leu His
85          90          95
Cys Tyr Ile Arg Leu Gln Asp Ala Asp Thr Ala Met Ala Leu Ile Lys
100         105         110
Glu His Arg Leu Leu Asp Ala Leu Ser Asp Asp Ile Pro Ala Phe Ile

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12561

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      115              120              125
Met Ile Arg Val Ser Lys Gln Gln Met Lys Thr Ala Pro Leu Ser Glu
      130              135              140
Leu Glu Glu Ile Thr Ala Glu Pro Ile Lys Leu Leu Val Ser Glu Ala
145              150              155              160
Tyr Thr Gly Ile Val Arg Pro Glu Val Val Val Thr Gln Leu Lys Asp
      165              170              175
Ala Asn Arg Leu Leu Phe Leu Tyr Phe Tyr Leu Arg Ala Leu Trp Arg
      180              185              190
Gly Glu Ser Leu Pro His Ser Ala Ala Lys Pro Arg Arg Gly His Gly
      195              200              205
Ala Arg Val Arg Asp Ala Ala Ser Lys Leu Ala Ala Asp Glu Gly Lys
      210              215              220
Ala Leu Val Asp Asn Phe Ala Asp Thr Ala Val Gly Thr Phe Gly Asp
225              230              235              240
Tyr Glu Arg Pro Trp Leu Met Gly Phe Leu Glu Val Tyr His Ala Tyr
      245              250              255
Ser Phe Glu His Thr Val Ala Val Leu Arg
      260              265

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<210> 32157
<211> 64
<212> PRT
<213> A.fumigatus

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<400> 32157
Arg Arg Glu Ile Leu Ile Ser Thr Asn Cys Lys Arg Ile Ser Ala Glu
1              5              10              15
Leu Phe Phe Arg Ile Asn Ile Asn Asn Ala Lys Leu Gly Phe Gln Ala
      20              25              30
Pro Gly Thr Ala Val Cys Ala Arg Thr Lys Asn Ala Val Leu Arg Pro
      35              40              45
Leu Phe Arg Asn Ile Leu Phe Leu Gly Leu Asn Ile Cys Lys Asn Ser
      50              55              60

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<210> 32158
<211> 131
<212> PRT
<213> A.fumigatus

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<400> 32158
Ser Arg His Arg Asp Cys Val Pro Leu Val Asp Leu Leu Gly Ile Ile
1              5              10              15
Phe Gln Ile Arg Asp Asp Tyr Gln Asn Leu Gln Ser Asp Leu Tyr Ala
      20              25              30
Lys Asn Lys Gly Phe Gly Glu Asp Ile Thr Glu Gly Lys Phe Ser Tyr
      35              40              45
Pro Ile Ile His Ser Ile Arg Ser Asp Pro Ser Asn Phe Gln Leu Met
      50              55              60
Asn Ile Leu Lys Gln Lys Thr Glu Asp Glu Asp Val Lys Arg Tyr Ala
65              70              75              80
Val Arg Ile Ile Glu Ser Thr Gly Ser Phe Asp His Cys Arg Lys Lys
      85              90              95
Leu Ala Asn Leu Thr Ala Glu Ala Arg Glu Ile Leu Lys Asp Phe Gly
      100              105              110
Asp Leu Gly Asn Thr Asp Gly Leu Lys Gly Ile Leu Asp Phe Leu Glu

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12562

115
Leu Lys Gly
130

120

125

<210> 32159
<211> 65
<212> PRT
<213> A.fumigatus

<400> 32159
Ala Met Gln Gln Ser Ser Glu Ser Arg Ser Pro Asn Ile Cys Asp Tyr
1 5 10 15
Trp Thr Val Asn Gly Val Gly Thr Lys Glu Phe Arg Asn Ser Ala Arg
20 25 30
Thr Tyr Phe Tyr Ala Leu Ser Leu Thr Glu Glu Ala Gln Gln Lys Tyr
35 40 45
Glu Thr Arg Gly Gln Ser Thr Thr Ala Ser Leu Ser Ser Gln Pro Ser
50 55 60
Arg
65

<210> 32160
<211> 60
<212> PRT
<213> A.fumigatus

<400> 32160
Thr Trp Asp Ser Leu His Ser Pro Phe Tyr Phe Phe Val Val Val Ser
1 5 10 15
His Ser Ile Gly Ala Tyr Ser Met Arg Tyr Pro Gly Ile Cys Thr Tyr
20 25 30
Glu Pro Leu Gly Asn Gly Thr Leu His Val Ile Tyr Ile Ile Val
35 40 45
Phe Ser Asp Ser Ile Ile Thr Arg Thr Gly Pro Ile
50 55 60

<210> 32161
<211> 75
<212> PRT
<213> A.fumigatus

<400> 32161
Ser Tyr Val Ile Ala Ala Phe Pro Phe Ser Pro His Asp Pro Asp Asn
1 5 10 15
Asn Leu Pro Leu Leu Arg Leu Gln Pro Met Ser Ile Arg Arg Val Ser
20 25 30
Thr Phe Phe Asp Thr Ser Leu Ser Cys Tyr Leu Phe Phe Gly Gln
35 40 45
Ile Phe Ala Ala Val Phe Ala Pro Ala Leu Ser Val Ala Pro Leu His
50 55 60
Phe Asn Ser Leu Gln Ile Arg His Asp Tyr Arg
65 70 75

<210> 32162
<211> 177
<212> PRT

<213> A.fumigatus

<400> 32162

Ala Phe Ala Val Ser Pro Arg Ser Ser Ile Leu Leu Ser Pro Ala Ile
 1 5 10 15
 Tyr Ser Ser Ser Val Arg Ser Ser Leu Gln Phe Leu Pro Gln Arg Tyr
 20 25 30
 Gln Ser Leu Pro Ser Ile Ser Ile Leu Cys Lys Phe Ala Met Thr Ile
 35 40 45
 Gly Asp Ile Val Ser Asp Pro Ser Leu Leu Pro Val Leu Arg Thr Cys
 50 55 60
 Ala Glu Thr Arg Glu Gln Cys Glu Lys Leu Leu Ser Leu Leu Asp Pro
 65 70 75 80
 Thr Thr Gln Ser Thr Ser Ser Asp Pro Glu Gln Ala Leu Leu Ala Ala
 85 90 95
 Ser Lys Gln Gln Lys Gln Leu Phe Ala Leu Leu Ala Gln Leu Arg Gly
 100 105 110
 Gln Ser Arg Asp Ala Ile Leu Arg Val Arg Gln Thr Lys Gln Leu Thr
 115 120 125
 Ala Glu Ala Arg Gln Glu Ile Asp Arg Leu His Leu Gln Leu Gln Asn
 130 135 140
 Leu Tyr Tyr Glu Gln Arg His Leu Thr Gly Glu Ile Ala Ala Cys Glu
 145 150 155 160
 Ser Tyr Glu Tyr Val Asp Arg Cys Leu Thr Phe Ile Gln Pro Pro Cys
 165 170 175
 Asn

<210> 32163

<211> 465

<212> PRT

<213> A.fumigatus

<400> 32163

Gln Pro Arg Gly Ala Ala Lys Gln His Ala Arg Arg Val Ala Ala Lys
 1 5 10 15
 Leu Gly Val Ser Ser Gly Leu Ile Tyr Leu Val Gly Gln Pro Thr Ile
 20 25 30
 Asn Trp Gly Asp Ser Asp Gln Pro Arg Pro Phe Arg Gln Arg Arg Tyr
 35 40 45
 Phe Tyr Tyr Leu Ser Gly Val Glu Glu Ala Asp Cys Tyr Leu Thr Tyr
 50 55 60
 Asp Ile Lys Asn Asp Leu Leu Thr Leu Tyr Val Pro Asp Phe Asp Leu
 65 70 75 80
 His Arg Ala Ile Trp Met Gly Pro Thr Leu Thr Val Lys Glu Ala Arg
 85 90 95
 Glu Arg Tyr Asp Val Asp Gln Val Arg Tyr His Ala Ser Leu Lys Gly
 100 105 110
 Asp Ile Gln Arg Trp Ala Asp Asn Tyr Asn Lys Thr Ser Leu Leu Tyr
 115 120 125
 Ile Leu His Asp Thr Gln Lys Pro Gln Val Leu Ser Asn Glu Leu Arg
 130 135 140
 Leu Asp Asp Glu Leu Leu Leu Pro Ala Met Asp Ala Ala Arg Gly Ile
 145 150 155 160
 Lys Asp Glu His Glu Ile Arg Met Ile Arg Glu Ala Asn Arg Val Ser
 165 170 175

Ala Leu Ala His Arg Lys Val Leu Glu Asn Val Leu Arg Met Ser Thr
 180 185 190
 Glu Ala Glu Ile Glu Gly Leu Phe Leu Asp Thr Cys Ile Ser His Gly
 195 200 205
 Ala Lys Asn Gln Ala Tyr Glu Ile Ile Ala Gly Ser Gly Glu Asn Ala
 210 215 220
 Ala Val Leu His Tyr Val Lys Asn Asn Glu Pro Leu Gln Gly Arg Gln
 225 230 235 240
 Leu Val Cys Leu Asp Ala Gly Ala Glu Trp Asn Cys Tyr Ala Ser Asp
 245 250 255
 Val Thr Arg Thr Phe Pro Leu Ala Ala Asp Trp Pro Thr Ala Arg Ala
 260 265 270
 Arg Asp Ile Tyr Gln Leu Val Glu Glu Met Gln Glu Glu Cys Ile Lys
 275 280 285
 Arg Ile Gln Lys Gly Val Arg Phe Leu Asp Leu Gln Val Leu Ala His
 290 295 300
 Val Ile Ala Ile Glu Gly Leu Met Arg Leu Gly Ile Leu Lys Gly Gly
 305 310 315 320
 Ser Val Glu Glu Ile Arg Glu Ser Gly Ala Ser Thr Val Phe Phe Pro
 325 330 335
 His Gly Leu Gly His His Val Gly Leu Glu Val His Asp Val Ser Ala
 340 345 350
 Lys Arg Leu Thr Ala Val Glu Gly Asp Lys Glu Tyr Tyr Ser Ser Ile
 355 360 365
 Leu Val Pro Ser Met Ser His Cys Pro Cys Thr Leu Ser Ala Pro Leu
 370 375 380
 Leu Glu Glu Gly Met Val Val Thr Val Glu Pro Gly Ile Tyr Phe Ser
 385 390 395 400
 Arg Leu Ala Leu Ala Asn Ala Arg Lys Leu Ala Phe Ala Lys Tyr Ile
 405 410 415
 Asn Phe Asp Glu Ala Glu Lys Tyr Ile Pro Ile Gly Gly Val Arg Ile
 420 425 430
 Glu Asp Asp Ile Leu Val Thr Ser Ser Gly His Glu Asn Leu Thr Thr
 435 440 445
 Ala Pro Lys Gly Glu Glu Met Leu Glu Ile Ile Arg Arg Gly Ile Asp
 450 455 460
 Ser
 465

<210> 32164

<211> 87

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (35), (40), (43), (44), (76)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32164

Tyr Asn Leu Ser Ser Lys Ile Val Gly Pro Tyr Gly Met Ile Thr Phe
 1 5 10 15
 Ala Thr Leu Asn Gly Ile Ser Ile Glu Asn Trp Arg Asn Trp Thr Trp
 20 25 30
 His Tyr Xaa Ala His Leu Val Xaa Glu Phe Xaa Xaa Leu Ser Cys Ser
 35 40 45

12565

Asp Phe Pro Glu Tyr Pro Phe Phe Phe Cys Arg Ser His Thr Thr Phe
 50 55 60
 Phe Asn Lys Gly Gly Arg Lys Asn Val Ile Thr Xaa Lys Thr Leu Lys
 65 70 75 80
 Asn Phe Leu Trp Ile Gly Ile
 85

<210> 32165
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 32165
 Gly Gly Trp Ile Thr Ile Ala Leu Ile Phe Ala Pro Gly Val Met Thr
 1 5 10 15
 Ile Val Ser Thr Leu Gln Ala Gly Cys Phe Phe Gly Ala Leu Ile Ala
 20 25 30
 Ser Gln Val Ala Asp Arg Trp Gly Arg Lys Pro Gly Leu Ile Ser Ala
 35 40 45
 Ser Ile Met Ser Ile Val Gly Val Ile Met Gln Val Ala Ala Ser Gly
 50 55 60
 His Leu Glu Ala Met Tyr Ile Gly Arg
 65 70

<210> 32166
 <211> 462
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (119), (126), (132)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32166
 Pro Arg Ala Pro Leu Pro Pro Cys Val Pro Leu Met Trp Asn His Ala
 1 5 10 15
 Leu Asn Ala Pro Ser Leu Gln Thr Tyr His Arg Leu Arg Cys Arg Phe
 20 25 30
 Arg Leu Asp Asp Gln Pro Pro Leu Arg Val Gly Glu Arg Ser Ser Cys
 35 40 45
 His Pro Trp His Ala Asp Arg Ala Val Pro Ala Leu His His His Gly
 50 55 60
 His His Ala Gly Val Leu Asp Gln Leu Arg Leu Pro Ala Ala His Gln
 65 70 75 80
 Arg Pro Gly His Val Pro Arg Ala Ala Gly His Ala Gly Pro Pro Arg
 85 90 95
 His Pro Pro Pro Gly Arg Tyr Ala Pro Val Gln Arg Val Pro Thr Leu
 100 105 110
 Ala Arg Pro Pro Gly Pro Xaa Gly Ser Arg Ala Arg His Xaa Ser Pro
 115 120 125
 Ser Ala Pro Xaa Ala Pro His Pro Pro Ile Arg Arg Ala Arg Ile Pro
 130 135 140
 Gly His Arg Arg Ala Ala Arg Ala Arg Ala Pro Ala His Arg Arg Leu
 145 150 155 160
 Gly Pro Leu Gly Pro His Ala Arg Asp Val Asp Asp Pro Gly Gln Pro

				165					170					175
Gln	Ala	Arg	Pro	His	Gln	His	Leu	Pro	His	Asp	Leu	Pro	Ala	Asp
				180					185				190	
Arg	His	Gln	Arg	His	Gln	Leu	Leu	Arg	Thr	Pro	Asp	Leu	Gln	Glu
				195				200				205		
Gly	Arg	His	Arg	Gln	Arg	Asp	Arg	Pro	Leu	Arg	His	Arg	Arg	Leu
				210			215				220			
His	Arg	Gln	Gly	Arg	Arg	Leu	Arg	Arg	Leu	Pro	Arg	Phe	Arg	Arg
				225			230			235				240
Leu	Pro	Arg	Pro	Pro	Pro	Leu	Pro	Pro	Val	Asp	Leu	Arg	Arg	Pro
				245					250					255
Pro	Asp	Asn	Ala	Leu	His	Arg	Pro	Val	Arg	Pro	His	Arg	Ala	Pro
				260				265					270	
Ser	Arg	Arg	Ala	Arg	His	Pro	Arg	Arg	Leu	Arg	Arg	Pro	Arg	Leu
				275			280					285		
Leu	Pro	Leu	Arg	Arg	Leu	Leu	Pro	Val	Trp	Leu	Gly	Ala	Arg	Leu
				290			295				300			
Asp	Leu	Arg	Leu	Arg	Asp	Pro	His	Arg	Pro	Pro	Ala	Arg	Pro	Glu
				305			310				315			320
Leu	Leu	Arg	Cys	Arg	Tyr	Pro	Val	Ala	Leu	Gln	Leu	Cys	Cys	Arg
				325					330					335
Arg	Arg	Pro	Gln	Tyr	Ala	Cys	Tyr	Arg	Arg	Cys	Glu	Trp	Leu	Trp
				340				345					350	
Pro	Leu	Ser	Leu	Ser	Leu	Pro	Gly	Asn	Pro	Leu	Arg	Tyr	Gln	Thr
				355			360					365		
Ala	Asn	Gly	Leu	Thr	Glu	Arg	Thr	Ser	Phe	Ser	Pro	Ala	Ser	Val
				370			375				380			
Pro	Trp	Val	Cys	Thr	Tyr	Gly	Ser	Ser	Ser	Leu	Arg	Pro	Arg	Val
				385			390				395			400
Leu	Pro	Ser	Pro	Ala	Asn	Gln	Gln	Phe	Met	Leu	Met	Arg	Ile	Gly
				405				410						415
Ser	Leu	Glu	Lys	Met	Asp	Glu	Leu	Phe	Gly	Val	Thr	Thr	Pro	Gln
				420				425					430	
Ser	Lys	Val	Ala	Asp	Ala	Glu	Arg	Ala	Met	Ser	Ser	Thr	Asp	Lys
				435			440					445		
Ala	Glu	Ala	Glu	Thr	Ala	Val	Glu	Thr	Arg	Val	Glu	Arg	Leu	
				450			455					460		

<210> 32167

<211> 345

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (101), (109), (115)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32167

Thr	Leu	Arg	Arg	Cys	Arg	Leu	Ile	Thr	Gly	Phe	Gly	Val	Gly	Phe	Ala
1				5					10				15		
Ser	Met	Ile	Asn	Pro	Leu	Tyr	Val	Ser	Glu	Asn	Ala	Pro	Arg	Ala	Ile
				20				25				30			
Arg	Gly	Met	Leu	Thr	Gly	Leu	Tyr	Gln	Leu	Phe	Ile	Thr	Met	Gly	Ile
				35			40				45				
Met	Leu	Ala	Phe	Trp	Ile	Asn	Tyr	Gly	Ser	Leu	Leu	His	Ile	Ser	Gly

50	55	60
Pro Ala Met Tyr Leu Val	Pro Leu Ala Met Gln Ala Leu Pro Ala Ile	
65	70	75
Leu Leu Leu Val Gly Met Leu Leu Cys Asn Glu Ser Pro Arg Trp Leu		80
	85	90
Ala Arg Gln Asp Xaa Trp Glu Ala Ala Arg Ala Thr Xaa Ala Arg Val		95
	100	105
Arg His Xaa Pro Pro Thr His Pro Tyr Val Glu Arg Glu Phe Gln Asp		110
	115	120
Ile Val Ala Gln Leu Glu His Glu Arg Gln Leu Ile Gly Gly Ser Gly		125
	130	135
Pro Trp Asp Leu Met Arg Glu Met Trp Thr Ile Pro Gly Asn Arg Lys		140
145	150	155
Arg Ala Leu Ile Ser Ile Phe Leu Met Ile Cys Gln Gln Met Thr Gly		160
	165	170
Thr Asn Ala Ile Asn Tyr Tyr Ala Pro Gln Ile Phe Lys Asn Leu Gly		175
	180	185
Val Thr Gly Asn Ala Thr Gly Leu Phe Ala Thr Gly Val Tyr Gly Ile		190
	195	200
Val Lys Val Val Gly Cys Ala Val Phe Leu Val Phe Val Ala Asp Ser		205
	210	215
Leu Gly Arg Arg Arg Ser Leu Leu Trp Thr Ser Val Ala Gln Gly Leu		220
225	230	235
Thr Met Leu Tyr Ile Gly Leu Tyr Val Arg Ile Ala Pro Pro Val Ala		240
	245	250
Gly Glu Pro Val Ile Pro Ala Gly Tyr Val Ala Leu Val Cys Ile Phe		255
	260	265
Leu Phe Ala Ala Cys Phe Gln Phe Gly Trp Gly Pro Val Cys Trp Ile		270
	275	280
Tyr Val Ser Glu Ile Pro Thr Ala Arg Leu Arg Gly Leu Asn Val Ser		285
	290	295
Phe Ala Ala Ala Thr Gln Trp Leu Phe Asn Phe Val Val Ala Arg Ala		300
305	310	315
Val Pro Asn Met Leu Ala Thr Val Gly Ala Asn Gly Tyr Gly Tyr Leu		320
	325	330
Ser Leu Ser Leu Ser Pro Glu Ile Pro		335
	340	345

<210> 32168

<211> 243

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (237), (243)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32168

His Ala Ser Asp Ile Ser Gly Asp Phe Arg Gly Glu Arg Glu Arg Glu	
1	15
Val Pro Ile Thr Ile Arg Thr Asp Gly Ser Lys His Ile Gly Asp Gly	
20	30
Ala Gly Asp Asn Lys Val Glu Glu Pro Leu Gly Ser Gly Ser Glu Gly	
35	45
Asp Val Gln Ala Ser Gln Ala Gly Gly Gly Asp Leu Gly Asp Val Asp	

12568

50 55 60
 Pro Ala Asp Gly Pro Pro Ala Lys Leu Glu Ala Gly Gly Glu Glu Glu
 65 70 75 80
 Asp Ala Asp Glu Gly Asp Val Ala Gly Gly Asp Asp Gly Leu Ala Gly
 85 90 95
 Tyr Gly Gly Arg Asp Ala Asp Val Gln Ala Asp Val Glu His Cys Gln
 100 105 110
 Ala Leu Gly Asp Gly Gly Pro Gln Glu Gly Ala Ala Ala Glu Gly
 115 120 125
 Val Gly Asp Glu Asn Glu Glu Asp Gly Ala Ala Asp Asp Leu Asp Asp
 130 135 140
 Ala Val Asp Ala Gly Gly Glu Glu Ala Gly Arg Val Ala Gly Asp Ala
 145 150 155 160
 Gln Val Leu Glu Asp Leu Gly Cys Val Val Val Asp Gly Val Gly Ala
 165 170 175
 Gly His Leu Leu Ala Asp His Glu Glu Asp Ala Asp Glu Gly Ala Leu
 180 185 190
 Ala Val Ala Arg Asp Arg Pro His Leu Ser His Glu Val Pro Gly Ala
 195 200 205
 Arg Ala Ala Asp Glu Leu Ala Leu Val Leu Glu Leu Arg Asp Asp Val
 210 215 220
 Leu Glu Phe Ala Leu Asp Val Trp Val Gly Gly Gly Xaa Val Ala His
 225 230 235 240
 Ser Gly Xaa

<210> 32169

<211> 262

<212> PRT

<213> A.fumigatus

<400> 32169

Ser Ala Ser Leu Ile Ala Gly Phe Ala Leu Leu Asp Ala Leu Lys Gln
 1 5 10 15
 Pro Ile Ala Gln Trp Asn Gly Met Glu Ile Leu Val Tyr Phe Ala Glu
 20 25 30
 Leu Met Ala Ala Val His Leu Gly Gly His Leu Pro His Val Ser Phe
 35 40 45
 Glu Arg His Tyr Phe Asp Arg Tyr Gly Lys Leu Leu Leu Ile Phe Met
 50 55 60
 Thr Val Gln Glu Ala Leu Gly Leu Leu Ser Leu Tyr Arg Ile Thr Thr
 65 70 75 80
 Thr Ser Asp Thr Ser Ser Gln Ala Arg Gln Pro Gly Gln Ser Pro Asp
 85 90 95
 Ala Ser Ala Pro Gly Ser Pro Ser Leu Gly Ser Val Arg Pro Glu Gln
 100 105 110
 Pro Ser Ser Ser Phe Ser Ser Ser Glu Pro Pro Val Pro Pro Leu Ser
 115 120 125
 Phe Ser Ser Thr Ala Ala Gly Ser Ser Phe Met Thr Gln Pro Pro Glu
 130 135 140
 Ala Gln Tyr Gln Leu Ala Phe Pro Asn Gln Asn Gln Gly Leu Lys Arg
 145 150 155 160
 Asp His Ser Phe Thr Leu Asn Ser Leu Lys Asp Asn Glu Ser Asp Phe
 165 170 175
 Ser Asp Ala Tyr Asp Arg Asp Ser Asp Thr Glu Thr Thr Val Thr Thr
 180 185 190

12569

Ala Thr Thr Ala Thr Ser Asn Thr Val Arg Asn Ile Arg Tyr Gly Arg
195 200 205
Asn Pro Thr Asp Ala Phe Phe Ser Pro Arg Arg Ser Glu Leu Gly Pro
210 215 220
Gly Ile Gly Gly Leu Ser Leu Asp Asp Lys Pro Thr Arg Arg Val Thr
225 230 235 240
Arg Ser Gln Ser Gln Arg Leu Ala Gly Asn Glu Gly Ile Arg Lys Tyr
245 250 255
Ser Met Arg Gly Leu Lys
260

<210> 32170
<211> 74
<212> PRT
<213> A.fumigatus

<400> 32170
Pro Cys Ser Cys Leu Gly Val Thr Val Lys His Leu Tyr Asn Glu Arg
1 5 10 15
Asn Gly Ser Ile Glu Arg Trp Arg Ser Ser Arg Asn Leu Arg Lys Gln
20 25 30
Arg Asp Phe Ile Ala Arg Gly Phe Ser Ala Phe Leu Phe Leu Ser Ser
35 40 45
Pro Gln Leu Thr Leu Ala Ser Phe Ile Ser Ser Leu Ala Ala Thr Tyr
50 55 60
Arg Ala Val Gly Asp Ala Phe Asp Leu Leu
65 70

<210> 32171
<211> 82
<212> PRT
<213> A.fumigatus

<400> 32171
Asp Leu Ala Ile Gly Ser His Phe Thr Met Val Glu Leu Gln Pro Ile
1 5 10 15
Phe Lys Lys Ala Tyr Trp Thr Leu Ala Ala Gly Gly Leu Val Tyr Val
20 25 30
Ser Phe Ile Cys Ala Leu Thr Trp Pro Asn Val Gln Arg Leu Tyr Ala
35 40 45
Leu Leu Ile His Ile Ser Thr Asn Ala Thr Thr Asn Asp Ser Gly Ala
50 55 60
Met Arg Ile Ala Pro Cys Met Arg Thr Lys Ser Thr Leu Leu Cys Gly
65 70 75 80
Arg Met

<210> 32172
<211> 391
<212> PRT
<213> A.fumigatus

<400> 32172
Val Arg Gly Lys Ala Gln Leu Ser Met Glu Trp Ser Leu Leu Thr Trp
1 5 10 15
Pro Glu Thr Gln Val Gln Pro Phe Asn Leu Val Thr Pro Asp Asn Asp

12570

```

      20      25      30
Thr Ile Tyr Gly Trp His Leu Leu Pro Leu His Leu Cys Arg Glu His
      35      40      45
Glu Glu Glu Leu Asn Ala Asn Glu Pro Ser Gly Pro Ala Asp Asp Tyr
      50      55      60
Thr Gln Thr Pro Ala Phe Lys Phe Leu Ala His Asp Pro Asn Ala Arg
65      70      75      80
Val Val Val Asn Cys Lys Arg Thr Gly Tyr Phe Ala Cys Asp Thr Ile
      85      90      95
Met Met Cys Thr Leu Thr Asn Leu Cys Ser Thr Ala Val His Gly Asn
      100      105      110
Ala Ala His Leu Gly Ser Ala Gln Arg Pro Glu Ile Tyr Arg Met Leu
      115      120      125
Leu Gly Leu Ser Ser Pro Ser Asn Pro Val His Val Phe Thr Ile Asp
      130      135      140
Tyr His Gly Tyr Gly Val Ser Thr Gly Ser Pro Thr Glu Glu Gly Leu
145      150      155      160
Ile Thr Asp Gly Val Ser Leu Ile Asn Phe Leu Thr Ala Gly Pro Leu
      165      170      175
Asn Ile Pro Pro Ser Arg Ile Val Ile Ala Gly Gln Ser Leu Gly Thr
      180      185      190
Ala Val Ser Ala Ala Val Ala Glu Arg Tyr Ala Phe Gly Ser Pro Asp
      195      200      205
Pro Ala Ala Val Gln Pro Ala Ile Asn Asp Pro Glu Pro Phe Ala Gly
      210      215      220
Val Val Leu Leu Ala Ser Phe Ser Asn Met Arg Asn Leu Ile Glu Ser
225      230      235      240
Tyr Ser Phe Lys Gly Leu Thr Pro Pro Met Leu Ser Pro Leu Ile Gly
      245      250      255
Tyr Pro Arg Val Gln Arg Trp Val Arg Ser His Ile Val Asp His Trp
      260      265      270
Asp Thr Ala Ala Arg Leu Ala Arg Leu Thr Gly Val Gly Pro Ser Ala
      275      280      285
Glu Glu Asp Ala Lys Ala Gly Tyr Asn Ser Lys Asn Leu Asp Leu Ala
      290      295      300
Ile Ile His Ala Phe Asn Asp Val Glu Ile Pro Trp Tyr Glu Gly Arg
305      310      315      320
Ser Val Trp Ile Ala Ala Thr Gly Glu Asn Gln Lys Asp Ala Pro Gly
      325      330      335
Thr Leu Ala Tyr Gln Lys Lys Glu Glu Gly Gly Pro Thr Glu Val Lys
      340      345      350
Ile Trp Glu Asn Arg Ser Gly Lys His Ala Val Lys Thr Val Arg Trp
      355      360      365
Glu Arg Val Gly Tyr Gly Gly Met Ser Gln Ile Arg Phe Asn Val Leu
      370      375      380
Val His Arg Glu Arg Tyr Asn
385      390

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<210> 32173

<211> 67

<212> PRT

<213> A.fumigatus

<400> 32173

```

Tyr Leu Trp Glu Val Gly Gly Gly Arg Arg Ser Val Thr His Ser Arg
1          5          10          15

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12571

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Thr His Asn Leu Leu Met Ile Arg Ile Ser Phe Phe Leu Pro Leu Asn
      20                      25                      30
Phe Tyr Thr Leu Lys Ile Leu Gly His Phe Asp Ile Val Asn Thr Val
      35                      40                      45
Pro Thr Pro Ile Pro Phe Pro Phe Ile Ser Ser Met Ala Pro Pro Val
      50                      55                      60
Val Val Ala
65

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<210> 32174
 <211> 276
 <212> PRT
 <213> A.fumigatus

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<400> 32174
Leu Phe Asp Val Lys Asp Thr Gly Ser Lys Pro Phe Val Cys Lys Glu
1      5      10      15
Cys Arg Arg Pro Phe Ala Arg Gln Asp Ala Leu Thr Arg His Glu Lys
      20      25      30
Leu His Thr Arg Ala Thr Ser Ser Thr Pro Thr Ile Lys Val Thr Gln
      35      40      45
Gly Asp Thr Ala Ile His Leu Pro Pro Gln Thr Thr Ala Ser Asp Ala
      50      55      60
His Thr Trp Asp Ser Thr Arg Ala Val Thr Asp Asp Ala Ala Leu Asn
      65      70      75      80
Pro Ala Pro Ser His Thr Trp Asn Thr Pro Pro Ser Gly Gln Gln Ser
      85      90      95
Gly Phe Gln Gln Ala Ala Ser Asp Leu Asp Phe Ser Leu Ile Trp Pro
      100     105     110
Asp Ser Glu Asn Leu Phe His Ser Ile Met Ser Ser Asp Thr Thr Glu
      115     120     125
His Trp Gln Met Pro Leu Gly Thr Leu Pro Phe Pro Pro Val Val Gln
      130     135     140
Asp Val Ser Thr Ile Asn Phe Gly Ser Pro Asn Ser Phe Asp Asp Arg
      145     150     155     160
Ser Ser Ser Ile Gly Ala Ile Pro Ser Gly Gly Ser His Gln Ala Val
      165     170     175
Arg Asp Val Thr Glu Met Val Thr Ser Ser Val Ser Ile Leu Thr Val
      180     185     190
Phe Leu Val Phe Ala Glu Asp Leu Ile Val Leu Gln Ser Ser Ser Val
      195     200     205
Thr Ala Ala Ile Lys Ala Thr Ser Ile Thr Ser Val Phe Leu Asp Glu
      210     215     220
Cys Leu His Met Phe Phe Val Arg Phe Ile Pro Thr Phe Pro Ile Leu
      225     230     235     240
His Arg Ala Thr Phe Val Phe Arg Glu Cys Thr His Pro Leu Leu Leu
      245     250     255
Asn Ala Met Ala Leu Gly Ser Leu Tyr Leu Gly Pro Lys Asp Ser Val
      260     265     270
Ala Lys Val Thr
      275

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<210> 32175
 <211> 93
 <212> PRT
 <213> A.fumigatus

<400> 32175

Cys Gly Ala Ser Cys Cys Ser Val Asp Ser Lys Pro Ser Thr Ala Glu
 1 5 10 15
 Thr Gly Phe Phe Ser Ala Leu Ser Phe Leu Asp Lys Val Met Ile Gly
 20 25 30
 Ser Ser Ala Ser Cys Trp Lys Pro Gln Trp Ser Gln Met His Val Ala
 35 40 45
 Lys Ile Arg Leu Glu Ala Arg Ser Cys Ser Val Gln Thr Tyr Ser Gly
 50 55 60
 Asn Gln Gly Thr Pro Leu Cys Lys Glu Ile Tyr Val Gln Ile Phe Asp
 65 70 75 80
 Thr Asn Leu Thr Asp Glu Gly Leu Phe Leu Glu Arg Val
 85 90

<210> 32176

<211> 186

<212> PRT

<213> A.fumigatus

<400> 32176

Pro Thr Pro Ser Phe Asp Ala Val Tyr Ala Ile Glu Ala Thr Val His
 1 5 10 15
 Ala Pro Asp Leu Glu Gly Val Tyr Lys Glu Ile Phe Arg Val Leu Lys
 20 25 30
 Pro Gly Gly Val Phe Gly Val Tyr Glu Trp Leu Met Thr Asp Ala Tyr
 35 40 45
 Asp Asn Asp Asn Pro Glu His Arg Arg Ile Arg Leu Gly Ile Glu Leu
 50 55 60
 Gly Asp Gly Ile Ser Asn Met Val Lys Val Ser Glu Gly Leu Thr Ala
 65 70 75 80
 Phe Lys Asn Ala Gly Phe Glu Leu Leu His Asn Glu Asp Leu Ala Asp
 85 90 95
 Arg Pro Asp Ala Ile Pro Trp Tyr Tyr Pro Leu Ala Gly Ser Phe Lys
 100 105 110
 His Met Thr Ser Pro Trp Asp Phe Phe Thr Ile Ala Arg Met Thr Trp
 115 120 125
 Trp Gly Arg Gly Ile Ala His Arg Phe Cys Gly Ala Met Glu Thr Ile
 130 135 140
 Gly Leu Phe Pro Lys Gly Thr Gln Lys Thr Ala Asp Ser Leu Ala Ile
 145 150 155 160
 Ala Gly Asp Cys Leu Val Ala Gly Gly Glu Lys Lys Leu Phe Thr Pro
 165 170 175
 Met Tyr Leu Met Val Gly Arg Lys Pro Glu
 180 185

<210> 32177

<211> 68

<212> PRT

<213> A.fumigatus

<400> 32177

Ser Thr Gly Thr Met Asp Leu Met Arg Ser Arg Gly Met Asn Ile Arg
 1 5 10 15
 Arg Trp Met Asp Leu Ser Leu Pro Ser Gln Gly Asn Val Ser Val Ser
 20 25 30

Tyr Ile Thr His Asp Pro Ala Pro Thr Tyr Ile Pro Ser Ser Val Gly
 35 40 45
 Asp Glu Gly Lys Phe Ala His Pro Ile Thr Ser Phe Pro Ser Leu Leu
 50 55 60
 Ser Ser Ser His
 65

<210> 32178

<211> 277

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (216)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32178

Leu Val Ala Thr Met Thr His Glu Ser Glu Val Thr Pro Pro Val Pro
 1 5 10 15
 Ile Ser Asp Glu Tyr Tyr Asp Leu Gly Ala Phe Gly Arg Lys Ile Thr
 20 25 30
 Thr Ser Ser Ala Asp Thr Gln Ala Trp Phe Asp Arg Gly Leu Ser Trp
 35 40 45
 Ala Tyr Ala Phe Asn His Val Glu Gly Ala Tyr Cys Phe Glu Gln Ala
 50 55 60
 Ile Ala His Asp Pro Ser Cys Ala Ile Ala Tyr Trp Gly Leu Ala Tyr
 65 70 75 80
 Ala Val Gly Pro Asn Tyr Asn Lys Pro Trp Glu Arg Phe Asp Lys Asp
 85 90 95
 Asp Leu Lys Ile Cys Met Lys Arg Ala Tyr Glu Ala Ser Arg Lys Ala
 100 105 110
 Lys Glu His Ala Ser Asn Ala Thr Pro Ile Glu Gln Gly Leu Ile Glu
 115 120 125
 Ala Ile Gln Ser Arg Phe Gln Ser Ala Ser Pro Pro Gln Thr Ala Glu
 130 135 140
 Glu Gln Ser Ala Leu Asn His Ala Tyr Ala Thr Ala Met Lys Pro Val
 145 150 155 160
 Tyr Gln Ala Phe Gly Asp Asp Leu Asp Val Ala Ala Leu Tyr Ala Asp
 165 170 175
 Ala Leu Met Asn Gln Thr Pro Trp Ala Leu Trp Asn Leu Phe Thr Gly
 180 185 190
 Glu Pro Asn Pro Lys Ala Ala Thr Met Glu Val Glu Glu Val Leu Glu
 195 200 205
 Arg Ala Leu Thr Gln Lys Glu Xaa Glu Asn Thr Arg Gly Cys Cys Thr
 210 215 220
 Ser Ile Ser Thr Thr Leu Lys Cys Arg Gln Ile Pro Lys Phe Gly Val
 225 230 235 240
 Asn Val Ala Glu Gln Leu Arg Asp Leu Met Pro Asp Ala Ser His Ile
 245 250 255
 His His Met Pro Ser His Leu His Phe Leu Ile Arg Asp Gly Gly Pro
 260 265 270
 Ser Ile Gly Phe Gln
 275

<210> 32179

<211> 215
 <212> PRT
 <213> A.fumigatus

<400> 32179

```

Leu Ser Ala Tyr His Cys Leu Cys Ala Val Met Pro Arg Ile Asp Thr
1          5          10          15
Val Ala Ile Ile Gly Ala Gly Pro Ser Gly Leu Ala Leu Ala Leu Ala
20          25          30
Leu His Lys Gln Ser Ile Ala Cys Thr Leu Tyr Glu Ala Arg Ala Ser
35          40          45
Ala Leu Asp Ile Gly Gly Ala Met Met Leu Cys Pro Asn Gly Leu Arg
50          55          60
Ile Leu Asp Ser Leu Gly Val Tyr Ser Arg Ile Arg Pro Glu Gly Tyr
65          70          75          80
Glu Phe Asp Lys Leu Tyr Phe Arg Ser Pro Asp Asp Gln Pro Met Asp
85          90          95
Thr Tyr Glu Phe Gly Gly Val Glu Gln Tyr Gly Tyr Arg Ala Met Arg
100         105         110
Ile Tyr Arg His Val Leu Ile Arg Glu Leu Ser Ala Met Val Arg Glu
115         120         125
Ala Gly Ile Pro Ile Glu Tyr His Lys Lys Phe Val Arg Val Leu Ala
130         135         140
Glu Thr Glu Lys Asp Ile Thr Trp Glu Phe Ser Asp Gly Ser Thr Ala
145         150         155         160
Thr Ala Thr Cys Val Val Gly Ala Asp Gly Ile His Ser Arg Val Arg
165         170         175
His Tyr Leu Tyr Pro Gly Leu Glu Pro Ser Phe Thr Lys Met Val Ile
180         185         190
Val Ala Ala Ala Val Pro Thr Ser Gln Leu Gln Val Pro Ser Ser Tyr
195         200         205
Asn Leu Pro Val Thr Ile Leu
210         215

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<210> 32180
 <211> 139
 <212> PRT
 <213> A.fumigatus

<400> 32180

```

Ala Ala Asp His Ser Ile Thr His Gln Asn Glu Pro Ser Leu Ala Thr
1          5          10          15
Gly Leu Leu Asn Ser Pro Leu Pro Tyr Thr Val Phe Ser Thr Ala Arg
20          25          30
Thr Leu Leu Ser Ser Met Thr Val Val Arg Pro Met Ser Arg Met Met
35          40          45
Lys Arg Met Leu Ser Leu Arg Thr Lys Pro Leu Gln Phe Pro Pro Ala
50          55          60
Gln Cys Ala Pro Pro Ile Pro Gln His Glu Leu Val Asp Glu Glu Ala
65          70          75          80
Ser Pro Ala Tyr Asn Pro Lys Tyr Phe Tyr Pro Ala Lys Pro Gly Glu
85          90          95
Leu Leu Ala Asn His Tyr Gln Leu Leu Val Lys Ile Gly Trp Gly Thr
100         105         110
Arg Ser Thr Thr Trp Leu Ala Lys Asp Ile Thr Arg Tyr Thr Pro Asp
115         120         125

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12575

Phe Val Ser Val Met Pro Thr Ala Ile Ile Val
130 135

<210> 32181
<211> 120
<212> PRT
<213> A.fumigatus

<400> 32181
Glu Val Val Phe Arg Tyr Arg Trp Gln Pro Glu Arg Phe Val Thr Leu
1 5 10 15
Lys Ile Ile Asn Asn Arg Ser Leu Asp Glu Ala Tyr Arg Glu Arg Asp
20 25 30
Ile Glu Glu His Ile Ser Arg Gln Asn Pro Ser His Arg Gly Arg Ala
35 40 45
Ile Ile Arg Thr His Leu Asp Ser Phe Glu Val Thr Ser Ser Glu Gly
50 55 60
Ser His Leu Cys Leu Ala Tyr Glu Pro Met Arg Glu Pro Leu Trp Ile
65 70 75 80
Leu Gln Lys Arg Phe Val Asp Gln Arg Leu Pro Leu Pro Ile Ala Lys
85 90 95
Ala Tyr Leu Leu Ile Leu Leu Ala Gly Leu Asp Tyr Leu His Ser Glu
100 105 110
Cys Gly Val Val His Thr Gly Arg
115 120

<210> 32182
<211> 126
<212> PRT
<213> A.fumigatus

<400> 32182
Ser Phe Trp Phe Met Leu Asp Leu Lys Leu Asp Asn Ile Leu Met Thr
1 5 10 15
Phe Glu Asn Glu Asp Val Leu Pro Asn Phe Leu Lys Val Gln Ile Asn
20 25 30
Ser Met Pro Met Gln Tyr Lys Thr Glu Ser Val Thr Arg Arg Thr Ile
35 40 45
Tyr Arg Cys His Asn Asp Phe Gly Pro Leu Asp Trp Arg Glu Leu Arg
50 55 60
Lys Met Val Pro Lys Ile Val Asp Phe Gly Leu Ala Thr Ser Leu Lys
65 70 75 80
Ser Asp Ser Gln Gly Gln Gly Gly Lys Ser Glu Leu Gly Leu His Pro
85 90 95
Ile Gln Pro Asp Gln Tyr Arg Ala Pro Glu Val Ile Leu Gly Cys Gly
100 105 110
Trp Ser Phe Ser Ala Asp Ile Trp Asn Phe Gly Val Leu Val
115 120 125

<210> 32183
<211> 138
<212> PRT
<213> A.fumigatus

<400> 32183
Thr Val Ser Ser Ser Pro Ile Glu Met Ser Arg Ile Gln Val Ile Phe

```

1           5           10           15
Phe Ile Leu Ser Gln Gln Thr Ile Ser Met Leu Ser Leu Tyr Arg Cys
                20                25                30
Thr Ser Cys Asn Glu Leu Ile Gln Pro Thr Lys Ala Arg Leu Ser Cys
                35                40                45
Ala Ser Cys Ala Pro Arg Leu Thr Leu Cys Ala Asn Cys Tyr Val Val
                50                55                60
Gln Asn Tyr Pro Leu Gln His Gln Glu Asn Pro Ser His Ser Ile Leu
65                70                75                80
Leu His Ala Lys Ser Gly Phe Ile Pro Ile Pro Pro Pro Pro Pro
                85                90                95
Pro Gln Ser Gln Ser Val Arg Ser Pro Tyr Val Pro Ala Gln Arg Arg
                100                105                110
Pro Ile Pro Ile Ser Asn Arg Asp Ser Asn Thr Pro Pro Arg Lys Pro
                115                120                125
Pro Arg Pro Thr Asn Pro Glu Gln Arg Asn
                130                135

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<210> 32184

<211> 82

<212> PRT

<213> A.fumigatus

<400> 32184

```

Gln Ala Arg Ser Tyr Asn Val Ile Leu Gln Arg Gly Leu Lys Ser Thr
1           5           10           15
Tyr Leu Ile Arg Trp Val Ala Asp Met Glu Gly Ala Ile Leu Ala Ser
                20                25                30
Val Asn Cys Ile Gly Pro Tyr Phe Phe Phe Cys Ile Leu Ser Asp Pro
                35                40                45
Ala Met Leu Arg Tyr Val Leu Val Val Asp Arg Glu Phe Asn Phe Gly
50                55                60
Pro Gln Leu Leu Gln Ser Thr Asn Ala Ser Ser Gly Val Ser Ile Gln
65                70                75                80
Ile Ser

```

<210> 32185

<211> 337

<212> PRT

<213> A.fumigatus

<400> 32185

```

Ala Ser Ile Met Ser Leu Asp Pro Ser Val Val Pro Ser Ser Thr Ser
1           5           10           15
Ser Pro Ser Leu Ile Ser Val Pro Asp Thr Pro Thr Asp Pro Ser Ser
                20                25                30
Gly Pro Phe Thr His Ser Thr Thr Pro Pro Ser Glu Ala Pro Leu Arg
                35                40                45
Asn Pro Pro Arg Pro Gln Ile Asn Glu Ala Gln Ala Thr Gln Ser Ala
50                55                60
Thr Met Ala Asp Pro Asn Asp Asn Ser Asn Ala Gly Leu Asp Thr Lys
65                70                75                80
His Glu Val Glu Pro Ser Ile Asp Asn Asn Gly Val Lys Thr Glu Ala
                85                90                95
Lys Pro Ser Val Ser Val Thr Glu Ser Thr Ser Val Lys Ile Ala Cys

```

```
<210> 32186
<211> 360
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (355)
<223> Identity of amino acid sequences at the above locations are unknown.
```

Gly	Arg	Asp	Met	Leu	Thr	Phe	Ser	Ser	Leu	Leu	Val	Trp	Asp	Asn	Thr
1				5					10					15	
Ile	His	Asn	Tyr	Lys	Leu	Thr	Glu	Thr	Val	Asp	Asp	Thr	Gly	Ala	Asn
			20					25					30		
Glu	Trp	Asp	Gln	Tyr	Ile	Phe	Thr	Val	Arg	Arg	Lys	Phe	Asp	Trp	Glu
		35					40					45			
Asn	Lys	Tyr	Leu	Glu	Thr	Val	Val	Asp	Ile	Lys	Ser	Lys	His	Leu	Arg
	50					55					60				
Asp	Ala	Leu	Ala	Lys	Ile	Met	Asp	Gly	Val	Lys	Gly	Val	Ser	Leu	Val
65					70					75					80
Gln	Glu	Thr	Ala	Val	Val	Asp	Pro	Asn	Met	Leu	Phe	Leu	Tyr	Leu	Glu
				85					90					95	
Glu	Thr	Arg	Ala	Tyr	Met	Lys	Glu	Leu	Lys	Gln	Gln	Ala	Lys	Lys	Glu

100 105 110
 Thr Lys Lys Lys Ala Lys Lys Leu Ala Asp Leu Lys Ala Ala Gln Leu
 115 120 125
 Lys Val Leu Val Lys Tyr Leu Asp Thr Asp Tyr Ala Glu Thr Lys Lys
 130 135 140
 Thr Leu Tyr Pro Leu Leu Glu Ala Asn Met Ile Thr Phe Asp Leu Leu
 145 150 155 160
 Trp Ala Leu Tyr Lys Pro Asn Thr Ile Ala Tyr Thr Ser Thr Tyr Gly
 165 170 175
 Asn Gln Asp Glu Pro Arg Ala Phe Lys Ile Glu Tyr Ala Thr Lys Glu
 180 185 190
 Ser Ser Phe Met Lys Gly Gln Trp Tyr Ser Ile Glu Gly Arg Tyr Leu
 195 200 205
 Glu Tyr Asp Gly Lys Ser Phe Gly Met Gly Thr Met Ala Ala Glu Val
 210 215 220
 Glu Phe Phe Lys Gly Val Arg Lys Ile Thr Ser Leu Gly Cys Tyr Pro
 225 230 235 240
 Leu Lys Tyr His Arg Glu Ala Glu Glu Val Asn Ala Lys Leu Ile Glu
 245 250 255
 Arg Gly Lys Lys Phe Val Ala Leu Cys Gly Met Asn Tyr Arg Phe His
 260 265 270
 Lys Gly Met Ala Phe Tyr Lys Lys Lys Arg Thr Ile Ile Lys Val Asn
 275 280 285
 Ile Asn Gly Arg Val Met Val Asp Pro Ala Ile His Arg Arg Ile Asn
 290 295 300
 Pro Asn Tyr Pro Ile Ser Thr Val Arg Pro Lys Asp Pro Asp Ile Leu
 305 310 315 320
 Gly Ala Ser Asp Asp Lys Pro Ser Glu Asp Gly Cys Lys Cys Gly Met
 325 330 335
 Ser Asp Ser Asp Val Asp Gln Gln Gln Pro Lys Ser Arg Asp Ser Asp
 340 345 350
 Asn Pro Xaa Ile Leu Tyr Lys Val
 355 360

<210> 32187

<211> 141

<212> PRT

<213> A.fumigatus

<400> 32187

Thr Ser Lys Phe Ser Arg Ser Thr Leu Val Ser Leu Arg Ile Arg Leu
 1 5 10 15
 Arg Ile Arg Ser Arg Cys Ala Ala Gly Gly Arg Val Thr Gly Asn Phe
 20 25 30
 Leu Gly Ile Arg Leu Arg Ile Ala Ser Ser Ile Ser Trp Ile Arg Phe
 35 40 45
 Val Ala Pro Arg Thr Thr Thr Arg Cys Gly Ser Pro Arg Glu Phe Ala
 50 55 60
 Glu Val Arg Pro Ser Gln Trp Val Met Asn Ser Ala Leu Thr Met Pro
 65 70 75 80
 Leu Ala Ser Cys Ser Pro Leu Arg Arg Val Pro Ser Thr Ala Ser Ile
 85 90 95
 Ser Ser Met Lys Thr Ile Glu Gly Cys Ser Leu Arg Ala Asn Glu Lys
 100 105 110
 Thr Ala Leu Thr Ser Leu Phe Glu Ser Pro Tyr His Phe Ser Val Lys
 115 120 125

12579

Val Glu Ile Trp Arg Phe Met Lys His Ala Pro Leu Ser
130 135 140

<210> 32188
<211> 179
<212> PRT
<213> A.fumigatus

<400> 32188
Leu Ala Glu Tyr Asn Ile Ile Phe Val Leu Pro Glu Met Pro Lys Arg
1 5 10 15
Lys Ala Thr Gly Arg Leu Ser Gly Gln Ala Gly Ser Asp Gly Ala Asn
20 25 30
Ala Met Gln Val Asn Gly Asn Asp Ala Gly Gln Arg Glu Asn Glu Arg
35 40 45
Pro Ala Lys Arg Ala Arg Gly Arg Pro Arg Ser Lys Ser Val Glu Ser
50 55 60
Lys Pro Pro Ala Glu Thr Lys Arg Asn Ser Thr Val Ala Gln Ala Gln
65 70 75 80
Ala Pro Asp Ser Gly Pro Lys Lys Ala Ser Lys Arg Gly Arg Pro Lys
85 90 95
Gly Ser Arg Asn Ser Ala His Gly Ala Thr Gln Glu Gly Pro Glu Arg
100 105 110
Lys Gly Gly Asn Glu Lys Ile Lys Asp Glu Val Gly Val Glu Glu Phe
115 120 125
Glu Ser Leu Ala Ala Ser Asp Asp Glu Leu Asp Gly Ala Pro Val Ala
130 135 140
Thr Lys Thr Asn Gln Lys Ala Lys Ser Ala Lys Pro Ala Ala Thr Arg
145 150 155 160
Gly Arg Lys Lys Val Ser Ala Gly Lys Gln Val Gln Thr Asp Gly Glu
165 170 175
Phe Glu Tyr

<210> 32189
<211> 377
<212> PRT
<213> A.fumigatus

<400> 32189
Ser Ala Ser Ala Tyr Phe Leu Ile Arg Tyr Leu Leu Ser Arg Leu Asp
1 5 10 15
Phe Asp Pro Glu Ser Gln Lys Lys Glu Glu Gln Arg Arg Lys Ser Ala
20 25 30
Ala Ile Leu Arg Lys Leu Asp Gly Gly Glu Glu Ser Asp Gly Asp Ser
35 40 45
Pro Arg Arg Gly Ala Lys Lys Ala Arg Arg Gln Arg Arg Gly Asp Leu
50 55 60
Val Leu Asn Gln Tyr Glu Gln Ala Ile Ala Met Asp Val Val Ala Pro
65 70 75 80
Asp Asp Ile His Val Ser Phe Glu Asp Ile Gly Gly Leu Asp Asp Ile
85 90 95
Ile Glu Glu Leu Lys Glu Ser Val Ile Tyr Pro Leu Thr Met Pro His
100 105 110
Leu Tyr Ser Ser Thr Ser Ser Leu Leu Asn Ala Pro Ser Gly Val Leu
115 120 125

12580

```

Leu Tyr Gly Pro Pro Gly Cys Gly Lys Thr Met Leu Ala Lys Ala Leu
  130                      135                      140
Ala His Glu Ser Gly Ala Cys Phe Ile Asn Leu His Ile Ser Thr Leu
 145                      150                      155                      160
Thr Glu Lys Trp Tyr Gly Asp Ser Asn Lys Leu Val Asn Ala Val Phe
                      165                      170                      175
Ser Leu Ala Arg Lys Leu Gln Pro Ser Ile Val Phe Ile Asp Glu Ile
                      180                      185                      190
Asp Ala Val Leu Gly Thr Arg Arg Ser Gly Glu His Glu Ala Ser Gly
                      195                      200                      205
Met Val Lys Ala Glu Phe Met Thr His Trp Asp Gly Leu Thr Ser Ala
  210                      215                      220
Asn Ser Leu Gly Glu Pro Gln Arg Val Val Val Leu Gly Ala Thr Asn
 225                      230                      235                      240
Arg Ile Gln Asp Ile Asp Glu Ala Ile Leu Arg Arg Met Pro Lys Lys
                      245                      250                      255
Phe Pro Val Thr Leu Pro Pro Ala Ala Gln Arg Leu Arg Ile Leu Ser
                      260                      265                      270
Leu Ile Leu Lys Asp Thr Lys Val Asp Arg Glu Asn Phe Asp Val His
                      275                      280                      285
Tyr Leu Val Lys Ala Met Ala Gly Met Ser Gly Ser Asp Ile Lys Glu
  290                      295                      300
Ala Cys Arg Asp Ala Ala Met Val Pro Val Arg Glu Leu Asp Pro Gln
 305                      310                      315                      320
Lys Lys Ala Glu Gly Ile Arg Met Thr Ser Val Asn Pro Thr Glu Val
                      325                      330                      335
Arg Gly Leu Asp Thr Gly Asp Phe Phe Ser Arg Ala Gly Gly Arg Gln
                      340                      345                      350
Val His Phe Ala Thr Leu Ser Ala Pro Asp Arg Thr Tyr Gln Leu Ser
                      355                      360                      365
Gln Phe Gly Glu Arg Val Glu His Cys
  370                      375

```

<210> 32190

<211> 211

<212> PRT

<213> A.fumigatus

<400> 32190

```

Ser Cys Pro Gly Trp Glu Met Arg Leu Gln Ser Thr Arg Thr Ser Cys
  1                      5                      10                      15
Phe Glu Thr Glu Thr Arg Thr Glu Leu Asp Trp Ala Ile Ser Glu Gln
                      20                      25                      30
Ser Trp Asp Val Arg Pro Gly Asn Ile Ser Ile Pro Cys Trp Leu Gly
  35                      40                      45
Ile Gln Lys Thr Arg Arg Lys Ser Asn Arg Lys His Tyr Ala Arg Leu
  50                      55                      60
Ser Ser Ser Leu Arg Asp Phe Ile Leu Gly Ala Phe Phe Val Val Asp
  65                      70                      75                      80
Leu Thr Lys Asp Leu Ser Glu Ala Asp Ser Trp Thr Ser Gly Glu Cys
                      85                      90                      95
Ala Ser His Phe Gln Gly His Leu Lys Lys Tyr Pro Pro Gln Val Ser
                      100                      105                      110
Ser Arg Asn Ala Ala Ala Gly Trp Gly Cys Phe Ile His Asn Glu Val
                      115                      120                      125
Asn Thr Met Leu Gly Lys Pro Glu Phe Asp Cys Asn Asn Ile Gly Asp

```

12581

```

      130              135              140
Phe Tyr Asp Cys Gly Cys Ala Glu Asp Glu Lys Ala Ala Gly His Lys
145              150              155              160
Asp Lys Ser Gln Ala Ala Ser Arg Gly Val Pro Gln Lys Lys Asp His
      165              170              175
Glu Gly Asp Ala Thr Thr Pro Val Glu Ile His Lys Glu Pro Ser Val
      180              185              190
Ala Pro Gln Tyr Phe Thr Phe Gln Leu Leu Thr Asp His Arg Arg Thr
      195              200              205
Thr Arg Gly
      210

```

<210> 32191

<211> 69

<212> PRT

<213> A.fumigatus

<400> 32191

```

Tyr Ser Leu Ile Cys Lys Ala Leu Gly Ala Asn Thr Ser Phe Ser Met
1              5              10              15
Ser Ile Ser Val Gly Gly Ala Tyr Asp Ser Leu His Lys Ala Thr His
      20              25              30
Glu Phe Leu Ser Gly Arg Val Thr Leu Ile Gly Asn Leu Gln Ala Phe
      35              40              45
Val Thr His Thr Thr Asp Arg Gly His Ser Lys Glu Ala Val Pro Ser
      50              55              60
Tyr Cys Arg His Tyr
65

```

<210> 32192

<211> 187

<212> PRT

<213> A.fumigatus

<400> 32192

```

Val Gln Val Ala Trp Val Ser Gly Asp Glu Val Leu Ser Thr Ile Lys
1              5              10              15
Lys Ser Leu Gln Ser Gly Lys Ser Thr Phe Ser Asn Val Tyr Thr Gly
      20              25              30
Glu Lys Leu Ser Glu Trp Ser Phe Glu Pro Ile Tyr Gly Gln Cys Tyr
      35              40              45
Leu Gly Gly Leu Gly Ile Ala Ala Ala Leu Ala Gln Gly Ala Asp Ile
      50              55              60
Val Leu Cys Gly Arg Val Ser His Ala Ser Pro Val Ile Gly Ala Ala
65              70              75              80
Tyr Trp Tyr His Gly Trp Asp Arg Asn Asp Leu Asp Gln Leu Ala Asn
      85              90              95
Ala Phe Val Ala Gly His Leu Ile Glu Cys Asn Asn Tyr Val Cys Gly
      100              105              110
Arg Asn Phe Thr Gly Phe Lys Met Leu Glu Asn Ala Gly Gly Asp Gly
      115              120              125
Trp Thr Asn Ile Gly Tyr Pro Ile Ala Glu Ile Ser Ala Gln Arg His
      130              135              140
Val Val His Pro Lys Gln Ser Tyr Ser Ser Gly Gly Ala Val Pro Val
145              150              155              160
Pro His Met Phe Leu Pro Asn Cys Cys Tyr Gln Asn Gln Arg Pro Leu

```

12582

	165		170		175					
Val	Leu	Ser	Pro	Pro	Asn	Val	Glu	Cys	Gln	Tyr
	180						185			

<210> 32193
 <211> 85
 <212> PRT
 <213> A.fumigatus

<400> 32193
 Lys Val Leu Ala Asn Lys Val Leu His Glu Ala Leu Ile Ser Glu Ser
 1 5 10 15
 Ser Leu Leu Ser Arg Phe Trp Ile Pro Met Ile Ala Cys Arg Val Ser
 20 25 30
 Val His Trp Phe Gln Ala Thr Ser Lys Ile Pro Asp Ser Lys Leu His
 35 40 45
 Ser Leu Ser Leu Phe Thr Ala Pro Thr Glu Pro Cys Ile His Leu Pro
 50 55 60
 Ile Ala Thr Leu Tyr His Met Gln Thr Leu Tyr Glu Thr Thr Gln Thr
 65 70 75 80
 Phe Asn Asn His Lys
 85

<210> 32194
 <211> 84
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (74)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32194
 His Leu Phe Asn Phe Ser Phe Val Pro Leu Asp Lys Ile Lys Val Thr
 1 5 10 15
 Pro Ala His Lys Leu Leu Asp Gly Pro Thr Pro Asp Met Gly Arg Ser
 20 25 30
 Ser Ala Asn Gly Val Val Asp His Arg Ile Ser Ala Phe Val Val Arg
 35 40 45
 Phe Asp Gly Leu Glu Val Val Arg Tyr Thr Phe Ala Arg Gln Gly Ser
 50 55 60
 His Ile Asp Asp Lys Ser Ser Val Glu Xaa Gly Gln Val Asp Cys Phe
 65 70 75 80
 Phe Thr Val Trp

<210> 32195
 <211> 229
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (175)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32195

```

Leu Ala Ser Lys Thr Asn Thr Lys His Ile Leu Gly Thr Ala Gly Thr
1          5          10          15
Gln Ala Ile Leu Asp Ala Ile Ser Asp Ser Ser Arg Asn Val Gly Thr
20          25          30
Val Ala Ile Gly Gly Ile Lys Leu Ser Asn Val Gln Arg Val Ile Tyr
35          40          45
Gln Ser Lys Ala Pro Arg Lys Gly Leu Asp Gly Val Ala Ile Val Ser
50          55          60
Ala Ile Met Ala Ala Asp Asp Pro Arg Ala Ala Ala Glu Glu Phe Val
65          70          75          80
Lys Arg Ile Asn Asn Pro Pro Ser Phe Ala Trp Glu Pro Lys Ala Pro
85          90          95
Arg Ala Asn Glu Ala Ala Ala Leu Ala Glu Glu Val Ala Gln Ile Val
100         105         110
Gln Lys Met Val Lys Ala His Pro Leu Val His Asn Met Ile Asn Tyr
115         120         125
Val Val Ala Asn Phe Val Ala Asn Val Ala Leu Ala Met Tyr Val Cys
130         135         140
Ile Trp Ile Ile Ile Asp Leu Ser Asn Trp Leu Ala Glu Ala Leu Pro
145         150         155         160
Arg Ser Cys His His Thr Val Lys Lys Gln Ser Thr Trp Pro Xaa Ser
165         170         175
Thr Glu Leu Leu Ser Ser Ile Trp Glu Pro Cys Arg Ala Lys Val Tyr
180         185         190
Arg Thr Thr Ser Lys Pro Ser Asn Leu Thr Thr Asn Ala Glu Ile Leu
195         200         205
Trp Ser Thr Thr Pro Leu Ala Leu Leu Arg Pro Ile Ser Gly Val Gly
210         215         220
Pro Ser Arg Ser Leu
225

```

<210> 32196

<211> 65

<212> PRT

<213> A.fumigatus

<400> 32196

```

Pro Glu Glu Ser Val Arg Tyr Thr Val Leu Ala Ser Gly Ile Glu Leu
1          5          10          15
Leu Thr Leu Ser Gly Asn Val Val Leu Leu Thr Gly Ala Val Asp Tyr
20          25          30
Leu Ser Asp Gly Glu Arg Val Ile Ala Val Glu Asn Gly His Glu Phe
35          40          45
Leu Gly Gln Val Thr Gly Val Arg Leu Leu Leu Ser Ser Ser Ala
50          55          60
Cys
65

```

<210> 32197

<211> 88

<212> PRT

<213> A.fumigatus

<400> 32197

12584

```

Leu Asn Val Gln Thr Gly Cys Ala Val Gly Met Val Ser Gly Cys Phe
1          5          10          15
Leu Ala Val His Pro Ser Asp Lys Leu Leu Ala Val Leu Ser Gly Leu
20          25          30
Leu Met Tyr Glu Ile Ala Ala Glu Asn Ala Ala Ser Lys Glu Tyr Val
35          40          45
Arg Gly Pro Gly Ser Phe Val Pro Ala Phe Leu Asp Glu Leu Tyr Ala
50          55          60
Ile Arg Gln Ala Ala Leu Lys Gly Asp Asp Ser Trp Phe Ser Gly Arg
65          70          75          80
Ala Lys Ile Gln Glu Ile Lys Leu
85

```

<210> 32198
 <211> 65
 <212> PRT
 <213> A.fumigatus

```

<400> 32198
Thr Met Cys Pro Val Tyr Leu Leu Ile Lys Ser Cys Asp Ile Cys Asn
1          5          10          15
Met Val Gln Leu Thr Gly Leu Leu Gly Glu Gln Tyr Leu Glu Leu Phe
20          25          30
Leu Leu Lys Pro Asp Phe Ser Gly Glu Lys Leu Pro Arg Thr Gly Pro
35          40          45
Thr Val Phe Thr Thr Gly Leu Glu Gly Ser Asp Ala Gly Ser Met Ser
50          55          60
Ile
65

```

<210> 32199
 <211> 70
 <212> PRT
 <213> A.fumigatus

```

<400> 32199
Cys Val Thr Ser Gly Val Thr Ile Val Gln Tyr Arg Asp Lys Thr Ser
1          5          10          15
Asp Thr Gly Ala Leu Ile Gln Thr Ala Lys Glu Leu His Lys Ile Thr
20          25          30
Lys Ala Tyr Gly Val Pro Leu Leu Ile Asn Asp Arg Val Asp Val Ala
35          40          45
Leu Ala Val Gly Ala Glu Gly Val His Leu Gly Gln Asp Asp Met Cys
50          55          60
Thr Ser His Gly Leu Arg
65          70

```

<210> 32200
 <211> 171
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (22)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32200

```

Leu Ala Cys Arg Gly Ala Ser Pro Ile Met Ser Pro Tyr Gly Glu Glu
1           5           10           15
Ala Val Asp Leu Ala Xaa Phe Asp Gly Ala Leu Val Ile Asn Met Gly
20           25           30
Thr Leu Ser Arg Glu Ser Ile Pro Asn Tyr Leu Gln Ala Ile Lys Ser
35           40           45
Tyr Asn Glu Arg Gly Asn Pro Val Val Tyr Asp Pro Val Gly Ala Ala
50           55           60
Ala Thr His Ile Arg Arg Gly Ala Val Lys Glu Leu Met Ser Gly Gly
65           70           75           80
Tyr Phe Asp Leu Ile Lys Gly Asn Glu Gly Glu Ile Lys Gln Val Ser
85           90           95
Gly Ser Arg Asn Ala Val Gln Arg Gly Val Asp Ser Gly Pro Ser Thr
100          105          110
Leu Asp Gly Gln Glu Lys Ala Arg Leu Ala Arg Asp Leu Ala Arg Arg
115          120          125
Glu Arg Thr Leu His Arg Pro Cys Lys Trp Asp Arg Val Ala Asn Ser
130          135          140
Val Arg Lys Arg Arg Pro Phe Asp Arg Arg Arg Arg Leu Ser Lys Arg
145          150          155          160
Arg Arg Ala Cys Asp Arg Cys Arg Glu Trp Ser
165          170

```

<210> 32201

<211> 174

<212> PRT

<213> A.fumigatus

<400> 32201

```

Ser Gly Ser Val Ile Gln Val Gly Phe Gly Lys Asn Met Trp Asp Val
1           5           10           15
Ile Pro Met Asp Asn Ile Thr Glu Val Asn Lys Val Gly Gly Arg Leu
20           25           30
Ser Leu Ser Pro Thr Ala Ser Ala Leu Thr Tyr His Ser Gln Arg Phe
35           40           45
Phe Ala Phe Val Val Leu Tyr Lys Thr Gln Ile Ser Leu Ala Lys Ile
50           55           60
Ser Val Cys Leu Phe Leu Leu Arg Ile Phe Gln Thr Leu Ala Phe Arg
65           70           75           80
Tyr Thr Thr Tyr Ala Ile Ile Gly Leu Asn Ala Ala Ile Gly Val Thr
85           90           95
Trp Val Leu Val Asp Ser Leu Arg Cys Asn Pro Val His Leu Ala Trp
100          105          110
Asp Gly Trp Thr Gly Glu Thr Pro Gly Thr Cys Ile Asn Phe Thr Ser
115          120          125
Ala Thr Phe Ala Asn Ala Phe Val Asn Ile Ala Val Asp Thr Val Met
130          135          140
Val Leu Met Pro Val Tyr Glu Ile Ser Lys Leu Asn Leu Ser Gly Arg
145          150          155          160
Lys Lys Leu Gly Val Ser Val Met Phe Ala Met Gly Leu Val
165          170

```

<210> 32202

<211> 167

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (56), (152)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32202

```

Arg Leu Tyr Pro Glu Trp Gln Trp Arg Arg Ala His Gln Leu Met Leu
1          5          10          15
Gln Ser Lys Phe Ile Ile Thr Lys Gln Cys Met Glu Arg His Pro Ser
20          25          30
Gln Pro Pro Cys Pro Pro Thr Asp His Gln Thr Thr Lys Arg Trp Cys
35          40          45
Pro Trp Ser Leu Trp Asp Trp Xaa Trp Glu Leu Ala Ala Cys Val Val
50          55          60
Ala Ile Leu Thr Leu Ile Gly Met Ile Ala Val Leu Arg Ile Tyr Asp
65          70          75          80
Gly Lys Thr Gln Pro Asn Trp Pro Ala Gly Ile Asn Leu Asn Ala Ile
85          90          95
Ile Ala Leu Leu Thr Thr Leu Met Lys Ala Ala Met Ala Thr Tyr Ile
100         105         110
Ala Glu Ala Leu Ser Gln Leu Lys Tyr Ser Trp Phe Lys Asp Thr Arg
115         120         125
Arg Leu Ser Asp Leu Ala Ala Leu Asp Ser Ala Ser Arg Gly Ala Trp
130         135         140
Gly Ala Ala Gln Leu Leu Val Xaa Tyr Val Pro Arg Cys Ala Thr Ser
145         150         155         160
Leu Pro Ser Leu Ala Ser Arg
165

```

<210> 32203

<211> 76

<212> PRT

<213> A.fumigatus

<400> 32203

```

Ser Gly Val Pro Gly Arg Thr Val Ser Val Val Lys Arg Leu Gly Ala
1          5          10          15
Arg Ala Cys Asn Val Pro Val His Gln Gly Arg Pro Glu Gly Glu Ala
20          25          30
Ala Thr Leu Phe Pro Leu Ile Leu Ala Ser Val Leu Phe Phe Asn Arg
35          40          45
Met Ala Ala Lys Ser Met Gly Leu Ala Gly Gly Trp Gly Ser Asp Glu
50          55          60
Tyr Thr Ile Ile Gly Ala Tyr Val Arg Tyr Pro Leu
65          70          75

```

<210> 32204

<211> 166

<212> PRT

<213> A.fumigatus

<400> 32204

```

Leu Cys Phe Trp Trp Ala Arg Ile Pro Val Asn Val Gly Phe Gly His

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12587

```

1           5           10           15
Lys Ile Val Ala Gln Leu Pro Met Leu Thr Pro Ala Arg Cys Arg Phe
          20           25           30
Leu Ser Gly Gln Met His Val Phe Arg Pro Arg Ala Asp Leu Trp Arg
          35           40           45
Cys Ile Leu Ala Leu Ile Pro Met Leu Cys Ala Leu Met Ile Ala Ile
          50           55           60
Ser Arg Leu Glu Asp Tyr Arg His Asp Val Tyr Asp Val Thr Cys Gly
65           70           75           80
Ser Ile Leu Gly Leu Ile Ile Ala His Phe Ser Tyr Arg Arg Tyr Tyr
          85           90           95
Pro Pro Leu Arg Ser Val Ala Cys Asp Val Pro His Glu Ala Tyr Glu
          100          105          110
Ile Val Gly Pro Asn Gly Phe Ser Lys Leu Pro Gly Asp Glu Glu Gln
          115          120          125
Gln Ile Gln Glu Arg Gly Leu Gly Ser Arg Gly Trp Glu Ala Gln Thr
          130          135          140
Tyr Gln Leu Glu Asp Leu Pro Ser His His Asp Arg Leu His Tyr Thr
145          150          155          160
Ser Ser Ala Thr Pro Ala
          165

```

<210> 32205
 <211> 143
 <212> PRT
 <213> A.fumigatus

```

<400> 32205
Ala Phe Ser Glu Ser Asp Thr Ser Leu Pro Tyr Ala His Lys Leu Pro
1           5           10           15
Val Trp Ser Ile Ile Tyr Ala Gly Val Val Pro Leu Leu Ile Leu Val
          20           25           30
Cys Trp Ala Ala Ile Phe Arg Pro Lys Pro Tyr Gln Val Gln Val Thr
          35           40           45
Ile Leu Gly Leu Leu Val Ala Leu Met Leu Thr Ser Leu Ile Thr Asp
          50           55           60
Ile Ile Lys Asn Ala Val Gly Arg Pro Arg Pro Asp Leu Ile Ser Arg
65           70           75           80
Cys Met Pro Lys Lys Gly Thr Pro Ala Asn Thr Leu Val Ala Trp Thr
          85           90           95
Val Cys Thr Gln Ser Asn Asn His Ile Leu Gln Glu Gly Trp Arg Ser
          100          105          110
Phe Pro Ser Gly His Ser Ser Phe Ala Phe Gly Gly Leu Gly Tyr Leu
          115          120          125
Ser Met Leu Val Ser Ala Ile Arg Leu Leu Pro Ser Ser Gln Cys
          130          135          140

```

<210> 32206
 <211> 118
 <212> PRT
 <213> A.fumigatus

```

<400> 32206
Glu Gly Phe Phe Phe Glu Pro Asp Glu Glu Arg Gly Glu Ile Lys Ile
1           5           10           15
Cys Asp Glu His Pro Gly Tyr Thr Asn Met Val Gln Ser Ala Asp Gly

```

12588

```

                20                25                30
Thr Met Met Ser Ile Pro Phe Glu Lys Thr Gln Ile Pro Lys Glu Ala
      35                40                45
Glu Thr Arg Val Arg Ala Leu Leu Lys Glu Thr Met Pro Gln Leu Ala
      50                55                60
Asp Arg Pro Phe Ser Phe Ala Arg Ile Cys Trp Cys Ala Asp Thr Ala
65                70                75                80
Asn Arg Glu Phe Leu Ile Asp Arg His Pro Gln Tyr His Ser Leu Val
      85                90                95
Leu Gly Cys Gly Ala Ser Gly Arg Gly Lys Thr Phe Thr Ser Arg Asp
      100                105                110
Val Lys Arg Asn Asn Arg
      115

```

<210> 32207
 <211> 115
 <212> PRT
 <213> A.fumigatus

```

<400> 32207
Leu Pro Leu Leu Arg Gly Arg Val Val Thr Leu Ile Phe Glu Asn Asn
1                5                10                15
Asp Val Lys Gly Ala Val Thr Ala Asp Gly Lys Ile Trp Arg Ala Glu
      20                25                30
Arg Thr Phe Phe Cys Ala Gly Ala Ser Ala Gly Gln Phe Leu Asp Phe
      35                40                45
Lys Asn Gln Leu Arg Pro Thr Ala Trp Thr Leu Val His Ile Ala Leu
      50                55                60
Lys Pro Glu Glu Arg Ala Leu His Lys Asn Ile Pro Val Ile Phe Asn
65                70                75                80
Ile Glu Arg Gly Ser Ser Ser Asn Gln Met Arg Ser Ala Val Arg Leu
      85                90                95
Arg Ser Ala Thr Asn Ile Arg Gly Ile Pro Ile Trp Tyr Ser Leu Pro
      100                105                110
Thr Ala Arg
      115

```

<210> 32208
 <211> 73
 <212> PRT
 <213> A.fumigatus

```

<400> 32208
Gly Phe Lys Tyr Leu Pro Ser Ile Gly Asn Leu Ile Val Asp Ala Met
1                5                10                15
Glu Gly Lys Val Pro Gln Lys Ile His Glu Leu Ile Lys Trp Asn Pro
      20                25                30
Glu Ile Ala Ala Asn Arg Asn Trp Arg Asp Thr Leu Gly Arg Phe Gly
      35                40                45
Gly Pro Asn Arg Val Met Asp Phe His Asp Val Lys Glu Trp Thr Asn
      50                55                60
Val Gln Tyr Arg Asp Ile Ser Lys Leu
65                70

```

<210> 32209
 <211> 70

<212> PRT

<213> A.fumigatus

<400> 32209

Pro Leu Gly Lys Leu Leu His Pro Ser Trp Ser Met Trp Leu Phe Asp
 1 5 10 15
 Cys Val Gln Thr Val Gln Ala Thr Asn Val Leu Ala Gly Val Pro Phe
 20 25 30
 Leu Gly Ile His Arg Glu Ile Arg Ser Gly Arg Gly Leu Pro Thr Ala
 35 40 45
 Phe Leu Met Met Ser Val Ile Arg Glu Val Asn Ile Ser Ala Thr Ser
 50 55 60
 Ser Pro Arg Ile Val Thr
 65 70

<210> 32210

<211> 626

<212> PRT

<213> A.fumigatus

<400> 32210

Gly Ser Ala Thr Asn Tyr Asp Thr Lys Ala Phe Phe Pro Ser Leu Pro
 1 5 10 15
 Pro Leu Phe Pro Asn Ser Gly Lys Leu Asp Arg Lys Lys Leu Arg Ala
 20 25 30
 Thr Val Glu Thr Leu Pro Lys Asp Gln Leu Lys Ser Tyr Ala Thr Leu
 35 40 45
 Thr Ala Gly Ser Arg Gln Ala Ser Asp Glu Gly Val Glu Gly Thr Leu
 50 55 60
 Arg Ser Leu Trp Glu Glu Ala Leu Gly Leu Ala Ser Gly Ser Val Ser
 65 70 75 80
 Ala Glu Asp Ser Phe Phe Ser Leu Gly Gly Asp Ser Phe Ser Ala Met
 85 90 95
 Lys Leu Val Gly Ala Ala Asn Ser Gln Gly Ile Ser Leu Thr Phe Ala
 100 105 110
 Asp Val Tyr Glu Asp Pro Val Phe Met Asn Met Ala Lys Arg Cys Gly
 115 120 125
 Met Leu Gln Gly Arg Ser Gly Arg Gln Thr Val Thr Pro Phe Ser Leu
 130 135 140
 Leu Pro Ala Ser Val Asp Arg Glu Gln Leu Leu Glu Glu Val Ala Glu
 145 150 155 160
 Gln Cys Gly Val Pro Arg Ala Ser Ile Val Asp Leu Tyr Pro Cys Ser
 165 170 175
 Pro Val Gln Glu Gly Leu Leu Thr Leu Ser Val Lys Gln Asn Gly Ala
 180 185 190
 Tyr Ile Ala Gln Pro Ile Phe Arg Leu Ser Glu Gly Ile Asp Leu Asp
 195 200 205
 Met Phe Lys Ala Ala Trp Gln Gln Val Val Asp Glu Leu Asp Ile Leu
 210 215 220
 Arg Thr Arg Ile Val His Thr Glu Ser Leu Asn Phe Leu Gln Ala Val
 225 230 235 240
 Ile Asp Lys Glu Glu Ile Ser Trp Ala Ser Ala Thr Thr Leu Asp Glu
 245 250 255
 Leu Thr Ala Glu Ser Pro Glu Leu Pro Arg His Asn Gly Gly Arg Leu
 260 265 270
 Thr Gly Tyr Ala Ile Ala Ala Ser Gln Thr Gly Arg Tyr Phe Cys Trp

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<210> 32211
<211> 482
<212> PRT
<213> A.fumigatus
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```

<400> 32211
Lys Glu Met Tyr Thr Leu Ala Ser Ser Phe Ala Ser Tyr Leu Thr Cys
1          5          10          15
Arg Gly Val Gly Pro Glu Thr Leu Gly Pro Ile Cys Leu Asp Lys Ser
          20          25          30

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12591

Leu Trp Ala Ile Ile Thr Ile Leu Gly Ile Leu Ile Ala Gly Gly Ala
 35 40 45
 Tyr Val Pro Leu Asp Pro Val His Pro Thr Ser Arg His Glu Glu Ile
 50 55 60
 Phe Thr Glu Val Asp Ala Arg Ile Leu Ile Cys Ser Pro Gln Tyr Gln
 65 70 75 80
 Ser Arg Tyr Ser Ser Ile Val Lys Thr Ile Ile Pro Val Ser Lys Glu
 85 90 95
 Thr Ile Arg Ala Tyr Phe Ala Leu Asn Tyr Gln Ala Lys Gly Leu Arg
 100 105 110
 Arg Val Thr Pro Phe Asn Met Ala Tyr Ala Ile Phe Thr Ser Gly Ser
 115 120 125
 Thr Gly Arg Ala Lys Gly Ile Ile Ile Asp His Arg Ala Leu Ala Ser
 130 135 140
 Ser Ala Met Ala Phe Gly Pro Ile Val His Leu Asn Glu Thr Ser Arg
 145 150 155 160
 Ala Phe Gln Phe Ala Ser Leu Thr Phe Asp Ala Ala Val Met Glu Ile
 165 170 175
 Leu Ala Thr Leu Met His Gly Gly Cys Ile Cys Ile Pro Ser Glu Asp
 180 185 190
 Glu Arg Leu Asn Asp Val Ala Gly Ala Ile Arg Arg Met Asn Val Thr
 195 200 205
 Trp Thr Phe Leu Thr Pro Ser Ile Ala Ser Ile Ile Glu Pro Ser Thr
 210 215 220
 Val Pro Ser Leu Glu Val Leu Ala Cys Gly Gly Glu Lys Leu Ser Arg
 225 230 235 240
 Glu Val Val Thr Lys Trp Ala His Arg Val Lys Leu Ile Asn Gly Tyr
 245 250 255
 Gly Pro Thr Glu Thr Thr Ile Phe Ala Val Leu Asn Asn Val Ser Pro
 260 265 270
 Thr Thr Asp Pro Ala Cys Ile Gly Tyr Gly Ile Pro Cys Thr Leu Thr
 275 280 285
 Trp Val Val Asp Pro Glu Asn His Asp Arg Leu Thr Pro Leu Gly Ala
 290 295 300
 Ile Gly Glu Leu Ala Leu Glu Gly Pro Ala Leu Ala Arg Glu Tyr Leu
 305 310 315 320
 Lys Asn Pro Lys Lys Thr Ala Glu Ala Phe Val Asp Glu Pro Ala Trp
 325 330 335
 Met Lys His Phe Gln Ser Thr Leu Pro Ser Pro Arg Arg Ile Tyr Lys
 340 345 350
 Thr Gly Asp Leu Val Arg Tyr Asn Pro Asp Gly Ser Val Glu Tyr Ile
 355 360 365
 Ser Arg Lys Asp Tyr Gln Val Lys Leu His Gly Gln Arg Met Glu Leu
 370 375 380
 Gly Glu Ile Glu His Arg Leu His Glu Asp Asp Arg Val Arg His Ala
 385 390 395 400
 Ile Val Ile Leu Pro Lys Glu Gly Leu Leu Lys Gly Arg Leu Val Thr
 405 410 415
 Ile Leu Ser Leu Asn Ser Leu Lys Ser Gly Ser Ser Ile Ile Ser Asp
 420 425 430
 Asn Ala Cys Glu Leu Ile Ser Arg Glu Asp Leu Ala Arg Val Ala Tyr
 435 440 445
 Ser Glu Leu Ile Thr Ile Gln Lys Asn Leu Glu Ala Gln Leu Pro Ile
 450 455 460
 Tyr Met Gly Pro Gln Thr Ser Ser Pro Gln Gly Pro Ala Thr Ala Gln
 465 470 475 480

Ala Gln

<210> 32212
 <211> 280
 <212> PRT
 <213> A.fumigatus

<400> 32212

Val	Val	Leu	Tyr	Arg	Ser	Lys	Glu	Tyr	Asp	Thr	Asn	Arg	Asp	Pro	Arg
1				5					10					15	
Gly	Pro	Leu	Ser	Ala	Gly	Ala	Glu	Val	Leu	Tyr	Gly	Ile	Met	Ser	Asp
		20						25					30		
Phe	Val	Thr	Ala	Leu	Ala	Thr	Ala	Pro	Val	Asp	Ile	Ala	Glu	Ala	Ile
		35					40					45			
Ser	Arg	His	His	His	His	His	Lys	Lys	His	Gly	Trp	Arg	His	Ser	His
	50					55					60				
Asp	Glu	Glu	Val	Thr	Cys	Gly	Cys	Glu	Ala	Arg	Ile	Gly	Arg	Ser	Val
65					70					75					80
Lys	Ser	Lys	Asp	Gly	Ile	Pro	Pro	Glu	Asp	Gln	Val	Arg	Ser	Gln	Leu
				85					90					95	
Gly	Ala	Val	Ala	Ser	Ile	Arg	Arg	Ser	Ser	Ser	Asp	Ser	Pro	Thr	Ser
			100					105					110		
Ser	Pro	Ser	Gly	Ser	Ala	Asp	Glu	Glu	Glu	Asp	Asp	Asp	Glu	Gly	Glu
		115					120					125			
Gln	Val	Gly	Ser	Glu	Ser	Thr	Ser	Phe	Val	Ser	Ala	Pro	Asp	Arg	Ile
	130					135					140				
Ser	Arg	Asn	Ser	Val	Pro	Ala	Pro	Arg	Ser	Arg	Ile	Ser	Asp	Gln	Ser
145					150					155					160
Thr	Met	Gln	Ser	Asp	Ser	Thr	Glu	Thr	His	Val	Glu	Ser	Asp	Glu	Asp
			165						170					175	
Ser	Gly	Glu	Leu	Asp	Leu	Glu	Lys	Thr	Ile	Ser	Arg	Arg	Ala	Thr	Arg
		180					185						190		
Glu	Ala	Arg	Gly	Gly	Val	His	Val	Val	Leu	Thr	Glu	Thr	Gly	Tyr	His
	195						200					205			
Gly	Lys	Arg	Phe	Gly	Lys	Arg	Leu	Leu	Asn	Trp	Leu	Ile	Thr	Ile	Pro
	210					215					220				
Thr	Asp	Val	Thr	Leu	Ser	Leu	Ser	Lys	Gly	Phe	His	Asn	Ala	Pro	Lys
225					230					235					240
Leu	Tyr	His	Asp	Arg	Thr	Val	Ala	Glu	Thr	Pro	Thr	Val	Met	Gly	Val
			245						250					255	
Arg	Ser	Gly	Phe	Arg	Ala	Ala	Gly	Lys	Val	Gly	Ile	Pro	Arg	Tyr	Ser
		260					265						270		
Leu	Ser	Ser	Gln	Met	Gly	Cys	Asn								
		275					280								

<210> 32213
 <211> 251
 <212> PRT
 <213> A.fumigatus

<400> 32213

Ala	Leu	Lys	Gln	Gly	Lys	Lys	Tyr	Asp	Asp	Pro	Ala	Ser	Ala	Ala	Gln
1				5					10					15	
Ile	Arg	Asp	Phe	Ile	Asn	Phe	His	Gln	Leu	Asp	Leu	Ser	Glu	Val	Leu
			20					25					30		

12593

Leu Pro Leu Asp Gln Phe Lys Thr Phe Asn Glu Phe Phe Tyr Arg Gln
 35 40 45
 Leu Lys Pro Gly Ala Arg Leu Cys Ser Ala Pro Asn Glu Pro Arg Ile
 50 55 60
 Ile Val Ser Pro Ala Asp Cys Arg Ser Val Val Phe Asp Arg Ile Asp
 65 70 75 80
 Glu Ala Thr Ser Ile Trp Val Lys Gly Arg Glu Phe Ser Val Glu Arg
 85 90 95
 Leu Leu Gly Asn Ala Tyr Pro Glu Asp Ala Pro Arg Tyr Lys Asn Gly
 100 105 110
 Ala Leu Gly Ile Phe Arg Leu Ala Pro Gln Asp Tyr His Arg Phe His
 115 120 125
 Ile Pro Val Asp Gly Val Met Gly Thr Pro Lys Thr Ile Glu Gly Glu
 130 135 140
 Tyr Tyr Thr Val Asn Pro Met Ala Ile Arg Ser Ala Leu Asp Val Tyr
 145 150 155 160
 Gly Glu Asn Val Arg Ile Leu Val Pro Ile Asp Ser Ile Ala His Gly
 165 170 175
 Arg Val Met Val Val Cys Val Gly Ala Met Met Val Gly Ser Thr Val
 180 185 190
 Ile Thr Arg Lys Ala Gly Glu Lys Val Thr Arg Gly Glu Glu Leu Gly
 195 200 205
 Tyr Phe Lys Phe Gly Gly Ser Thr Val Leu Leu Leu Phe Glu Glu Gly
 210 215 220
 Val Met Lys Phe Asp Lys Asp Leu Val Asp Asn Ser Arg Gly Ala Leu
 225 230 235 240
 Glu Thr Leu Val Ser Thr Ile Asn Pro Leu Cys
 245 250

<210> 32214

<211> 201

<212> PRT

<213> A.fumigatus

<400> 32214

Arg Ile Lys Val Asp Leu Ser Ser Phe Val Pro Ala Met Met Leu Glu
 1 5 10 15
 Ala Gly Asp Met Ala Glu Glu Gln Thr Cys Leu Asp Gln Glu Ser Arg
 20 25 30
 Glu Val Arg Gly Glu Glu Thr Gly Glu Gly Asn Asp Asp Lys Trp Gln
 35 40 45
 Glu Gln Thr His Gly Glu Phe Val Val Glu Ser Val Ala Glu Arg Gly
 50 55 60
 Ser Gly Glu Arg Asp Ser Leu Ala Ser Asn Asn Ser Leu Ser Lys Glu
 65 70 75 80
 Glu Leu Val Glu Glu Gly Glu Pro Ala Asp Lys Glu Ser Val Asp Glu
 85 90 95
 Gln Ser Gly Ala Ile Glu Leu Ala Asp Glu Lys Ser Ala Asp Lys Glu
 100 105 110
 Ala Asp Glu Glu Glu Cys Ser Glu Glu Glu Ser Asp Lys Glu Asp Leu
 115 120 125
 Ala Pro Val Ser Ala Ala Tyr Tyr Ser Gly Ile Lys Val Tyr Gly Tyr
 130 135 140
 Gly Leu Ser Asp Arg Pro Trp Ile Thr Arg Asp Gly Gln Asp Phe Ile
 145 150 155 160
 Trp Leu Pro Pro Glu Phe Arg Pro Glu Cys Ser Ala Val Gln Gly Asp

12594

165 170 175
 Thr Ile Ala Ile Gly Cys Arg Ser Gly Arg Val Leu Ile Phe Gly Phe
 180 185 190
 Ala Pro Asp Gly Cys Ser Thr Gly Ala
 195 200

<210> 32215

<211> 214

<212> PRT

<213> A.fumigatus

<400> 32215

Trp Leu Ser Leu Ser Asp His Ala Val Gly Val His Pro Lys Pro Ala
 1 5 10 15
 Glu Val Glu His Leu Lys Ser Ser Leu His Phe Pro Gln Gly His Leu
 20 25 30
 Phe Leu Ser Lys Leu Asp Asp Ser Asn Ser Ser Val Ser Ala Asn Met
 35 40 45
 Thr Ile Thr Gln Glu Leu Val Lys Asp Lys Thr Ala Glu Asp Ser Asp
 50 55 60
 Arg Pro Ser Ala Glu Gln Pro Pro Gly Tyr Asp Gln Ile Asp Glu Gln
 65 70 75 80
 Pro Ser Thr Ile Pro Pro Leu Asp Leu Ser His Asn Ala Gly Pro Pro
 85 90 95
 Ala Ser Thr Thr Val Thr Arg Asp Gln Cys Val Ala His Leu Lys Phe
 100 105 110
 Ile Ala Ala Leu Ala Asp Leu Arg Asp Ser Val Ala Gly Asn Asp Gly
 115 120 125
 Leu Phe Gly Leu His Asp Pro Pro Pro Thr Glu Phe Pro Asp His Ile
 130 135 140
 Asn Glu Val Arg Ala Arg Met Arg Glu Lys Arg Trp Ala Val Tyr Thr
 145 150 155 160
 Ala Arg Ala Val Asp Arg Tyr Thr Lys Trp Trp Val Lys Cys Val Pro
 165 170 175
 Asn Asp Arg Pro Arg Ala Arg Leu Thr Asp Leu Met Asp Glu Ser Tyr
 180 185 190
 Asp His Ile Thr Gln Asp Ile Arg Leu Ile Ser Trp Ser Lys Asp Ser
 195 200 205
 Leu Pro Pro Leu Gly Glu
 210

<210> 32216

<211> 178

<212> PRT

<213> A.fumigatus

<400> 32216

Trp Arg Arg Val Val Leu Thr Gly Ala Asp Val Leu Met Val Trp His
 1 5 10 15
 Ala His Met Leu Asn Pro Arg Ala Phe Leu Glu Asp Cys Ile Arg Ser
 20 25 30
 Gly Lys Met Cys Cys Trp Ala Ser Gly Phe Pro Trp Glu Thr Ile Asn
 35 40 45
 Asp Cys Ile Asp Asn Arg Thr Leu Glu Tyr Asp Ala Gly Asp Arg Ala
 50 55 60
 Arg Val His Phe Asn Arg Met Thr Arg Phe Ala Trp Glu Asn Leu Asp

12595

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65              70              75              80
Asp Pro Leu Asn Lys Leu Ile Glu Cys Pro Ala Cys Glu Asn Thr Val
      85              90              95
Ser Val Pro Trp Thr Gln Gly Arg Ile Ser Leu Pro Leu Gln Thr Ala
      100             105             110
Phe Asp Lys Phe Asn Gly Tyr Ala Asp Lys Asn Phe His Val Lys Cys
      115             120             125
Pro Lys Cys Gly Ser Thr Val Asp His Glu Leu Leu Arg Val Arg Lys
      130             135             140
Phe Arg Arg Asp Val Ala Asn Trp Leu Lys Glu Lys Met Pro Met Pro
145             150             155             160
Gly Thr Leu Tyr Asn Met Arg Gly Ile Pro Gln Ser Thr Arg Ser Gln
      165             170             175
Thr Arg

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<210> 32217
 <211> 76
 <212> PRT
 <213> A.fumigatus

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<400> 32217
Trp Lys Ala Ser Arg Asn Thr Phe Phe His His Thr Thr Thr Val Trp
1              5              10              15
Pro Ile Tyr Phe Ile Leu Phe Tyr Phe Ser Phe Ile Leu Leu Phe Leu
      20             25             30
Ser Arg Leu Phe Asn Asn Tyr Leu Val Ser Met Cys Val Leu Ile Ala
      35             40             45
Met Ile Ile Ile Asn Ser Lys Tyr Ser Ala Arg Phe Ile Ile Ser Ile
      50             55             60
Ile Asn His Leu Phe Ser Arg Val Asn Ile Ile Ser
65              70              75

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<210> 32218
 <211> 60
 <212> PRT
 <213> A.fumigatus

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<400> 32218
Pro Ala Glu Arg Lys Lys Ser Asn Gln Arg Gln Val Asp Asn Thr Pro
1              5              10              15
Asn Thr Ile Thr Ile Leu Gly Leu Thr Thr Cys Asp Leu Arg Gly Thr
      20             25             30
Phe Trp Pro Ala Tyr His Ser Pro Thr Ala Arg Leu Phe Ala Ile Val
      35             40             45
Arg His Met Glu Pro Tyr Lys Cys Arg Arg Thr Ile
      50             55             60

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<210> 32219
 <211> 95
 <212> PRT
 <213> A.fumigatus

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<400> 32219
Ser Leu Ala Asn Pro Gly Val Gly Gly Gly Ser Gly Phe Gly Ala Ala
1              5              10              15

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12596

Ile Ser Arg Arg Phe Gly Glu Glu Gly Ala Lys Val Ile Val Ala Asp
 20 25 30
 Ile Asp Val Glu Asn Gly Glu Lys Ile Ala Ala Gln Asn Pro Glu Asn
 35 40 45
 Leu Val Phe Tyr Lys Met Asp Val Thr Ser Ala Ser Asp Trp Asp Glu
 50 55 60
 Val Met Asp Leu Ala Phe Ala Lys Phe Gly Arg Leu Asp Val Leu Val
 65 70 75 80
 Asn Asn Ala Gly Thr Thr Tyr Arg Asn Lys Val Arg Thr Ile Arg
 85 90 95

<210> 32220
 <211> 80
 <212> PRT
 <213> A.fumigatus

<400> 32220
 Gly Ala Pro Leu Ala Asp Val Arg Ala Leu Gln Pro Thr Leu Glu Val
 1 5 10 15
 Thr Glu Glu Glu Trp Glu Arg Val Phe Asn Val Asn Val Arg Ser Ile
 20 25 30
 Phe Leu Gly Ser Lys Ala Leu Met Gly Arg Leu Ile Gln Gln Gly Gln
 35 40 45
 Gly Gly Ser Met Ile Asn Ile Ser Ser Thr Gly Ala Ser Arg Pro Arg
 50 55 60
 Pro Gly Leu Val Trp Tyr Asn Ala Ser Lys Gly Ala Val Ser Asn Val
 65 70 75 80

<210> 32221
 <211> 88
 <212> PRT
 <213> A.fumigatus

<400> 32221
 Ala Thr Lys Gly Leu Ala Ala Glu Tyr Gly Pro His Asn Ile Arg Val
 1 5 10 15
 Asn Thr Val Ser Pro Leu Leu Ser Gly Thr Gly Leu Phe Ser Met Phe
 20 25 30
 Thr Gly Met Glu Asp Thr Pro Glu Asn Arg Glu Lys Phe Ile Gly Asn
 35 40 45
 Val Pro Leu Gly Arg Leu Thr Asp Pro Asn Asp Val Ala Asn Met Cys
 50 55 60
 Leu Tyr Leu Ala Ser Asp Glu Gly Ser Phe Ile Asn Gly Ala Glu Met
 65 70 75 80
 Ile Val Asp Gly Gly Lys Cys Ile
 85

<210> 32222
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 32222
 Asn Ala Thr Thr Asp Glu Ile Arg Arg Thr Glu Met Ile His Ser Arg
 1 5 10 15
 Ser Tyr Thr Leu Ala Thr Ile Asp Asp His Leu Arg Ala Val Asp Glu

[illegible]

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<210> 32223
<211> 312
<212> PRT
<213> A.fumigatus
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[illegible]

<210> 32224

<211> 350
 <212> PRT
 <213> A.fumigatus

<400> 32224

Leu	Ala	Ile	Glu	Ile	Asn	Pro	Ser	Ser	Ser	Ile	Tyr	Leu	Ser	Asn	Arg
1				5					10					15	
Ala	Ala	Ala	Tyr	Leu	Ser	Ala	Asn	Arg	Tyr	Leu	Glu	Ala	Leu	Glu	Asp
			20					25					30		
Ala	Glu	Arg	Ala	Leu	Glu	Leu	Asp	Pro	Asp	Asn	Ser	Lys	Ile	Met	Tyr
		35					40					45			
Arg	Leu	Ala	Arg	Ile	Leu	Thr	Ala	Leu	Gly	Arg	Pro	Ser	Glu	Ala	Leu
	50					55					60				
Glu	Val	Leu	Ser	Arg	Val	Gln	Pro	Pro	Ala	Ser	Ala	Thr	Asp	Arg	Ala
65					70					75				80	
Ala	Pro	Glu	Lys	Met	Gln	Arg	Phe	Ile	Lys	Gln	Ala	Glu	Glu	Thr	Leu
				85					90					95	
Ala	Glu	Asp	Arg	Gly	Val	Ser	Met	Val	Leu	Phe	Cys	Ile	Glu	Gln	Ala
			100					105					110		
Arg	Gln	Leu	Leu	Gly	Arg	Gly	Val	Lys	Glu	Pro	Arg	Lys	Trp	Thr	Leu
		115					120					125			
Leu	Thr	Ala	Glu	Ala	Gln	Leu	Lys	Met	Gly	Ser	Glu	Asn	Ser	Phe	Arg
	130					135					140				
Lys	Ala	Gln	Asp	Ile	Ala	Ile	Ser	Met	Leu	Arg	Glu	Asn	Asn	Gln	Asp
145					150					155				160	
Pro	Asp	Ala	Leu	Met	Ile	Arg	Ala	Arg	Ala	Tyr	Tyr	Gly	Leu	Gly	Glu
				165				170					175		
Ser	Glu	Gln	Ala	Leu	Lys	Thr	Leu	Lys	Met	Cys	Leu	Gly	Leu	Asp	Pro
			180					185					190		
Asp	Met	Lys	Pro	Ala	Ile	Lys	Met	Leu	Arg	Thr	Val	Gln	Lys	Leu	Thr
	195						200					205			
Arg	Thr	Lys	Glu	Glu	Gly	Asn	Asn	Ala	Phe	Lys	Ala	Lys	Asp	Tyr	Arg
	210					215					220				
Lys	Ala	Ile	Glu	Leu	Trp	Ser	Glu	Ala	Leu	Glu	Val	Asp	Pro	Gln	Asn
225					230					235				240	
Lys	Asp	Met	Asn	Ser	Lys	Ile	Leu	Gln	Asn	Arg	Ala	Gln	Ala	Tyr	Ile
				245					250					255	
Asn	Leu	Lys	Glu	Tyr	Glu	Asn	Ala	Ile	Asn	Asp	Cys	Asn	Glu	Ala	Leu
		260					265						270		
Lys	Leu	Asp	Pro	Ser	Tyr	Val	Lys	Ala	Gln	Lys	Met	Arg	Ala	Lys	Ala
	275						280					285			
Tyr	Gly	Gly	Ala	Gly	Asn	Trp	Glu	Glu	Ala	Ile	Arg	Asp	Tyr	Asn	Ala
	290					295					300				
Val	Ala	Asp	Ala	Asn	Pro	Gly	Glu	Ile	Gly	Ile	Gln	Glu	Asp	Ile	Arg
305					310					315				320	
Arg	Ala	Glu	Cys	Glu	Leu	Lys	Lys	Ala	Gln	Arg	Lys	Asp	Tyr	Tyr	Lys
			325						330					335	
Ile	Leu	Gly	Val	Ser	Lys	Asp	Ala	Ser	Glu	Ser	Glu	Ile	Lys		
		340						345					350		

<210> 32225
 <211> 305
 <212> PRT
 <213> A.fumigatus

<220>

<221> UNSURE

<222> (193), (220), (228)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32225

Ile	Asp	Phe	Gly	His	Pro	Ile	Phe	Phe	Trp	Ile	Ser	Ser	Ser	His	Leu
1				5					10					15	
Cys	Ile	Val	His	Asp	Arg	Leu	Leu	Ser	Pro	Val	Tyr	Gly	Arg	Lys	Asn
			20					25					30		
Thr	Lys	Ile	Asn	Ile	Ser	Thr	Ala	Phe	Ala	Asp	Ile	Arg	Tyr	Pro	Gln
			35				40					45			
Pro	Ile	Arg	Asp	Cys	Asn	Ser	Asp	Asn	Gln	Lys	Lys	Thr	Arg	Thr	Gly
	50				55						60				
Lys	Arg	Arg	Lys	Glu	Glu	Lys	Asp	Met	Val	Leu	Pro	His	Leu	Phe	Ala
65				70					75					80	
Arg	His	Lys	Ser	Lys	Arg	Ser	Thr	Ser	Ser	Lys	Glu	Asp	Ser	Lys	Lys
			85					90					95		
Thr	Ser	Ser	Pro	Lys	Ser	Pro	Pro	Pro	Ser	Thr	Glu	Thr	Leu	Pro	Ser
			100				105						110		
Arg	Ser	Ser	Ser	Thr	Ser	Thr	Ser	Ser	Ser	Arg	His	Thr	Pro	Ser	His
			115				120					125			
His	Pro	His	His	Leu	Arg	Ser	Pro	Ser	His	Pro	Pro	Pro	Thr	Pro	Val
	130					135				140					
Pro	Leu	Pro	His	His	Leu	Phe	Ile	His	Arg	Pro	Leu	Ile	Pro	Arg	Asp
145					150					155				160	
Arg	Pro	Asn	Ser	Lys	Ser	Arg	Ser	His	Thr	Ser	Ala	Lys	Ser	Lys	Ser
			165					170					175		
Ser	Ser	Ser	Lys	Asp	Ala	Ala	Ala	Ala	Ala	Arg	Phe	Ser	Phe	Pro	Ala
			180				185						190		
Xaa	Arg	Leu	Ser	Ser	Thr	Phe	Asp	Arg	Tyr	Ser	His	Asp	Pro	Asp	Phe
	195					200					205				
His	Pro	Leu	Asn	Leu	His	Pro	Asp	Glu	Leu	Arg	Xaa	Leu	Ser	Ala	Met
	210					215					220				
Ala	Ser	Ala	Xaa	Asp	Arg	Ser	Ser	Met	Asp	Ile	Asp	Ser	Pro	Gly	Ser
225				230						235				240	
Ser	Ser	Gln	Asn	Ile	Asn	Gly	Val	Asn	Gly	Val	Gln	Thr	Asp	Arg	Val
			245					250					255		
Leu	Pro	Arg	Arg	Arg	Thr	Ser	Pro	Met	Ala	Arg	Ser	Pro	Lys	Pro	Thr
			260					265					270		
His	Ser	Asn	Trp	Arg	Ala	Ile	Asn	Phe	Ser	Arg	Thr	Glu	Ile	Thr	Ile
		275				280						285			
Ala	Gln	Leu	Lys	Ser	Ser	Pro	Lys	Val	Ser	Met	Gln	Phe	Ser	Ser	Leu
	290					295					300				

Lys
305

<210> 32226

<211> 175

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (158)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32226

Thr Phe Pro Pro Pro Ser Pro Thr Phe Asp Thr Leu Ser Gln Ser Gly
 1 5 10 15
 Thr Ala Ile Leu Ile Thr Arg Lys Arg Pro Glu Gln Glu Asn Ala Val
 20 25 30
 Lys Lys Lys Lys Ile Trp Phe Phe Leu Thr Ser Leu Pro Val Thr Asn
 35 40 45
 Pro Ser Asp Pro Leu His Pro Lys Arg Ile Arg Arg Arg Leu His Arg
 50 55 60
 Gln Lys Val Leu Leu His Arg Arg Arg Pro Phe Leu Leu Gly Arg Pro
 65 70 75 80
 Arg Leu Arg Arg Leu Arg Leu Ala Thr Pro Pro Val Ile Ile Leu Ile
 85 90 95
 Ile Phe Ala Leu Pro His Thr His Arg Arg Leu Pro Phe Leu Phe Leu
 100 105 110
 Ile Ile Tyr Ser Ser Thr Val Leu Ser Phe Leu Glu Ile Val Gln Ile
 115 120 125
 Pro Ser Arg Asp Pro Thr Pro Pro Leu Asn Pro Asn Leu Pro Arg Pro
 130 135 140
 Arg Thr Pro Pro Pro Pro Arg Gly Ser Val Ser Leu Leu Xaa Gly Ser
 145 150 155 160
 Pro Pro Pro Ser Ile Val Thr Arg Thr Ile Pro Thr Phe Ile Leu
 165 170 175

<210> 32227

<211> 103

<212> PRT

<213> A.fumigatus

<400> 32227

Ser Ile Leu Leu Thr Ala Ala Leu Gly Met Pro Lys Ala Leu Ile Arg
 1 5 10 15
 Val Gln Leu Leu Trp Val Asn Leu Val Thr Asp Gly Leu Pro Ala Thr
 20 25 30
 Ala Leu Ser Phe Asn Pro Pro Asp His Asp Val Met Arg Arg Ala Pro
 35 40 45
 Arg Lys Arg Asp Glu Pro Leu Val Gly Gly Trp Leu Leu Phe Arg Tyr
 50 55 60
 Leu Ala Ile Gly Thr Tyr Val Gly Ala Ala Thr Val Phe Gly Tyr Ile
 65 70 75 80
 Trp Trp Phe Val Tyr Asn Pro Glu Gly Pro Gln Ile Ser Phe Trp Gln
 85 90 95
 Leu Val Ser Lys Leu Ser Gln
 100

<210> 32228

<211> 125

<212> PRT

<213> A.fumigatus

<400> 32228

Ala Asn Cys Leu Ser Glu Thr Phe Ser Cys Leu Ser Asn Ser Tyr Leu
 1 5 10 15
 Gln Ser His Phe His Lys Cys Ser Ala Gln Phe Pro Glu Ile Gly Cys
 20 25 30
 Glu Met Phe Ser Asn Glu Met Ser Arg Ser Ala Ser Thr Val Ser Leu

12601

35 40 45
 Ser Ile Leu Val Val Ile Glu Met Leu Asn Ala Met Asn Ala Leu Ser
 50 55 60
 Ser Ser Glu Ser Leu Leu Ala Phe Pro Leu Trp Asn Asn Met Met Leu
 65 70 75 80
 Val Tyr Ala Ile Ile Leu Ser Met Thr Leu His Phe Ala Ile Leu Tyr
 85 90 95
 Ile Pro Phe Leu Gln Thr Leu Phe Ser Ile Leu Pro Leu Asn Trp Thr
 100 105 110
 Glu Trp Lys Ala Val Leu Ala Ile Ser Ala Pro Val Val
 115 120 125

<210> 32229
 <211> 67
 <212> PRT
 <213> A.fumigatus

<400> 32229
 Leu Val Val Arg Ala Tyr Pro Leu Ala Ser Leu Gly Tyr Ala Asn Trp
 1 5 10 15
 Ile Leu Arg His Tyr Gly Tyr Lys Ala Val Ser Ile Phe Gly Leu Thr
 20 25 30
 Leu Tyr Gly Ile Gly Ala Leu Cys Met Trp Pro Ala Gly Leu Asn Arg
 35 40 45
 Ser Phe Gly Gly Phe Cys Ala Ala Thr Phe Leu Ile Trp Ser Gly Leu
 50 55 60
 Gly Ser Leu
 65

<210> 32230
 <211> 81
 <212> PRT
 <213> A.fumigatus

<400> 32230
 Gln Pro Ile Gly Lys Ser Leu His Met Asp His Asp Gln His Met Phe
 1 5 10 15
 Val Asp Phe Lys Phe Asp Gln Ser Ile Gln Val Ser Thr His Pro His
 20 25 30
 Lys Glu Glu Asn Arg Asp Gln Gly Glu Gly Pro Gln Ala Leu Thr Gln
 35 40 45
 Gly Glu Arg Ser Cys Arg Gly Gly Thr Leu Ile Val His Pro Glu Arg
 50 55 60
 Arg Ala Gly Ser Glu Asn Leu Ser Asp Pro His Phe Gly Asn Cys Gly
 65 70 75 80
 Gly

<210> 32231
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 32231
 Phe Asn Met Arg Asn Lys Val Ile Thr Arg Tyr Pro Tyr Tyr Ser Gly
 1 5 10 15

12602

Pro Tyr Phe Gln Val Tyr Arg Asp Ser Thr Ala Leu Asp Asp Phe Asp
 20 25 30
 Ile Ser Leu Arg Leu Gln Met Gln Gly Met Gly Cys Gly Ser Thr Gln
 35 40 45
 Ser Ser Ile Arg Ala Ser Gly Cys Thr His Ser Gly Arg Ala Gly Val
 50 55 60
 Gly Ala Pro Tyr Cys Asn Cys Arg Phe Gln Ala Glu Leu
 65 70 75

<210> 32232
 <211> 677
 <212> PRT
 <213> A.fumigatus

<400> 32232
 Thr Glu Asn Thr Ile Leu Thr Ile Phe Arg Ile Gly Arg Asp Phe Ala
 1 5 10 15
 Arg Arg Gly Thr Cys Ser Phe Lys Asn Gly Lys Phe Gln His Val Asn
 20 25 30
 Asp Thr Gly Arg Arg Asp Asp Asn Arg Pro Lys Arg Asp Val Arg Pro
 35 40 45
 Lys Arg Pro Glu Leu Ser Asp Ser Glu Lys Gln Phe Arg Ser Trp Lys
 50 55 60
 Asp Thr Leu Asn Thr Asp Phe Arg Ala Ser Arg Pro Gly Arg Ala Lys
 65 70 75 80
 Leu Asn Asn Phe Phe Arg Asp Ala Arg Gln Leu Ile Glu Val Asp Ala
 85 90 95
 Gly Leu Met Gln Gly Val Ile Arg Glu Leu Ser Glu Glu Thr Gly Leu
 100 105 110
 Glu His Ile Arg Asp Leu Val Glu Asn Lys Phe Pro Lys Ala Glu Ser
 115 120 125
 Lys Ala Lys Glu Glu Val Phe Arg Ser Gln Val Leu Pro Met Leu Glu
 130 135 140
 Thr Val Ser His Pro Lys Val Leu Ser Ser Leu Ile Leu Glu Gln Ala
 145 150 155 160
 Val Gly Thr Ile Tyr Asn Val Leu Tyr Gly Ile Asn Gly Arg Arg Ala
 165 170 175
 Ala Leu Phe Leu Ser Ser Val Cys Asp Val Leu Ser Lys Ile Ser Glu
 180 185 190
 Glu Glu Thr Ala Val Glu Trp Leu Glu Ile Ser Leu Leu Val Phe Ala
 195 200 205
 Lys Ile Val Asp Leu Asn Ser Thr Ala Phe Val Gln Asp Ala Leu Lys
 210 215 220
 Asp Gln Ala Lys Arg Phe Gln Gln Leu Phe Leu Arg Met Ala Glu Gly
 225 230 235 240
 Gly Leu Ala Ser Ser Leu His His Ser Arg Asn Leu Leu Asp His Leu
 245 250 255
 Leu Cys Arg Leu Glu Ile Gly Ser Ser Leu Pro Ser Ala Pro Ala Asn
 260 265 270
 Asp Lys Leu Glu Ser Glu Pro Lys Ser Thr Ala Thr Phe Met Val His
 275 280 285
 Arg Glu Pro Pro Gly Gly Arg His Asp Asn Asp His Ala Asp Ile Val
 290 295 300
 Asn Ile Ala Ile Met Pro Thr Leu Asp Glu Ile Gln Ser Ser Arg Ile
 305 310 315 320
 Glu Tyr Leu Pro Val Asn Asp Pro Arg Gln Trp His Val Gly Gly Leu

12603

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          325          330          335
Asp Gly Leu Leu Asp Arg Asn Phe Arg Leu Leu Arg Glu Asp Thr Ile
          340          345          350
Gly Gln Leu Arg Asp Ala Ile His Gln Glu Leu Lys Gly Ser Gln Glu
          355          360          365
Pro Gly Arg Gln Ile Ser Gln Val Arg Thr His Val Tyr Pro Arg Ala
          370          375          380
Lys Ile Arg Gln Ile Tyr Phe Asp Lys Phe Leu Gly Phe His Phe Lys
          385          390          395          400
Val Gln Phe Pro Gln Pro Pro Arg Val Ser Glu Met Ser Val Lys Asp
          405          410          415
Arg Glu Asn Trp Trp Gln Leu Ser Lys Arg Leu Leu Pro Gly Ala Leu
          420          425          430
Val Cys Leu Ile Met Asn Gly Arg Asn Gly Arg Thr Val Val Phe Cys
          435          440          445
Thr Ile Val Asp Glu Gln Val Arg Ser Pro Lys Lys Gln Thr Asp Asn
          450          455          460
Ala Asn Lys Glu Ser Glu Asn Val Ala Ser Leu Trp Glu Asp Ala Lys
          465          470          475          480
Glu Ala Ser Val Lys Ile Met Leu Val Asp Thr Lys Pro Gly Met Val
          485          490          495
Arg Thr Ile Leu Asn Lys Val Leu Ser Lys Arg Asp Phe Ser Ile Val
          500          505          510
Glu Phe Pro Gly Ile Leu Leu Ala Gly Phe Glu Pro Thr Leu Arg Ala
          515          520          525
Leu Lys Lys Ile Lys Glu Asn Arg Glu Leu Pro Phe Leu Glu Ile Leu
          530          535          540
Val Ala Ser Gly Asn Val Gly Pro Val Asp Val Pro Pro Pro Leu Tyr
          545          550          555          560
Ala Leu Arg Pro Gly Phe Arg Phe Asn Leu Arg Cys Leu Met Asn Asn
          565          570          575
Asn Ala Asp Leu Tyr Val Gln Ala Asp Lys Pro Val Asp Ile Glu Tyr
          580          585          590
Leu Gln Arg Asn Ser Thr Leu Asp Trp Ala Gln Ala Arg Ala Leu Val
          595          600          605
Asn Ser Leu Gln His Arg Ile Gly Leu Ile Gln Gly Pro Pro Gly Thr
          610          615          620
Gly Lys Ser Tyr Thr Gly Val Ala Leu Ile Gln Val Leu Leu Ala Asn
          625          630          635          640
Lys Lys Gln Gly Lys Thr Asn Leu Gly Pro Met Leu Cys Val Thr Tyr
          645          650          655
Thr Asn His Ala Leu Asp Gln Leu Leu Glu Ala Leu Ile Asp Lys Gly
          660          665          670
Val Thr Ser Gln Ser
          675

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<210> 32233

<211> 161

<212> PRT

<213> A.fumigatus

<400> 32233

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Asp Trp Gln Arg Gly Thr Gly Thr Ile Leu Tyr Asn Pro Ala Val Arg
1          5          10          15
Ala Ser Val Gly Gly Ser Thr Ser Met Asn Thr Ser Ser Val Gly Asn
          20          25          30

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12604

Gly	Tyr	Ser	Ser	Arg	Pro	Tyr	Asn	Arg	Thr	Gly	Asn	Gly	Ala	Asp	Phe
	35						40					45			
Ser	Asp	Gly	Gln	Ser	Gly	Gly	Tyr	Gly	Arg	Arg	Ser	Asn	Pro	Asp	Thr
	50					55					60				
Ser	Asn	Arg	Gly	Tyr	Pro	Leu	Val	Thr	Glu	Asp	Gly	Glu	Glu	Ile	Gln
65					70					75					80
Thr	Gln	Asn	Ile	Ser	Ile	Pro	Ala	Asp	Met	Val	Gly	Cys	Ile	Ile	Gly
			85						90					95	
Arg	Gly	Gly	Ser	Lys	Ile	Thr	Glu	Ile	Arg	Arg	Ser	Ser	Gly	Ala	Arg
			100						105				110		
Ile	Ser	Ile	Ala	Lys	Ala	Pro	His	Asp	Glu	Thr	Gly	Glu	Arg	Met	Phe
	115						120					125			
Thr	Ile	Met	Gly	Ser	Ala	Gln	Ala	Asn	Glu	Lys	Ala	Leu	Tyr	Leu	Leu
	130					135					140				
Tyr	Glu	Asn	Leu	Glu	Ala	Glu	Lys	Thr	Arg	Arg	Ser	Gln	Leu	Pro	Gln
145					150					155					160
Glu															

<210> 32234

<211> 212

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (86)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32234

Pro	Thr	Ala	Ala	Leu	Ser	Gly	Arg	Met	Val	Phe	Ser	Glu	Glu	Asn	Gln
1				5					10					15	
Leu	Asp	Leu	Gly	Leu	Gly	Ala	Leu	Phe	Lys	Ala	Gln	Val	Ser	Glu	Asn
		20					25				30				
Gly	Ala	Ala	Val	Ala	Val	Glu	Ser	Asp	Gly	His	Ala	Leu	Ser	Tyr	Ala
	35					40					45				
Asp	Leu	His	Ser	Lys	Ala	Leu	Tyr	Leu	Ala	Tyr	Gln	Ile	Gln	Arg	Leu
	50					55					60				
Cys	Pro	Cys	Asp	Gly	Thr	Pro	Val	Gly	Ile	Leu	Ile	Pro	Arg	Gly	Ile
65					70					75					80
Asn	His	Ile	Leu	Gly	Xaa	Val	Ala	Val	Leu	Tyr	Leu	Gly	Arg	Ser	Cys
			85						90					95	
Val	Pro	Leu	Asp	Phe	Lys	Leu	Pro	Asp	Asp	His	Leu	Asn	Asn	Met	Leu
		100						105				110			
His	Asp	Ile	Gly	Thr	Asn	Leu	Val	Ile	Cys	Asp	Gln	Glu	Thr	Thr	His
	115					120						125			
Arg	Leu	Pro	Thr	Phe	Thr	His	Val	Leu	Ala	Asp	His	Thr	Ile	Glu	Ala
	130					135					140				
Pro	Gly	Pro	Ser	Phe	Glu	Pro	Leu	Leu	Lys	Gly	Pro	Lys	Ser	Cys	Ser
145					150					155					160
His	Ile	Leu	His	Thr	Ser	Gly	Thr	Thr	Gly	Lys	Pro	Lys	Ala	Ile	Glu
			165						170					175	
Ile	Phe	Ala	Glu	Gly	Ala	Tyr	Gln	His	Pro	Ser	Arg	Ser	Phe	Val	Pro
		180					185						190		
Cys	Lys	Arg	Lys	Val	Thr	Val	Ser	Val	Ile	Tyr	Arg	Val	Cys	Leu	Phe
		195					200						205		

Pro Leu Arg Trp
210

<210> 32235

<211> 599

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (494), (543)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32235

Lys	Lys	Gly	Asp	Arg	Phe	Gly	His	Ile	Pro	Ser	Val	Pro	Phe	Ser	Ala
1			5						10				15		
Ser	Leu	Val	Asp	Leu	Trp	Gly	Ser	Leu	Val	Thr	Gly	Ala	Thr	Ile	Val
			20					25				30			
Cys	Ile	Pro	Lys	Glu	Thr	Val	Leu	Asp	Pro	Leu	Glu	Leu	Ser	Arg	Gln
			35				40				45				
Ile	Lys	Ser	Leu	Lys	Leu	Asn	Val	Met	Gln	Ile	Thr	Thr	Ser	Leu	Leu
	50					55				60					
Asn	Ile	Thr	Ala	Tyr	Ala	Ser	Pro	Ser	Ala	Phe	Ser	Ser	Leu	Glu	Thr
65				70					75				80		
Leu	Ile	Thr	Gly	Gly	Glu	Ala	Ile	Asn	Val	Gln	Thr	Ile	Arg	Thr	Ile
			85					90				95			
Phe	Glu	Gly	Gly	Pro	Pro	Arg	Arg	Ile	Ile	Asn	Gly	Tyr	Gly	Pro	Thr
			100					105				110			
Glu	Cys	Ser	Val	Tyr	Thr	Leu	Trp	His	Pro	Val	Ser	Arg	Glu	Glu	Ala
			115				120				125				
Gln	Arg	Gly	Glu	Ile	Pro	Val	Gly	Lys	Pro	Phe	Cys	Asn	Val	Gln	Thr
			130				135				140				
Cys	Leu	Val	Asp	Glu	Asn	Leu	Ile	Pro	Val	Lys	Ala	Gly	Val	Ile	Gly
145				150						155				160	
Glu	Leu	Leu	Ile	Ala	Gly	Ala	Gly	Val	Ala	Gly	Gly	Tyr	Ile	Gly	Glu
			165				170					175			
Pro	Glu	Lys	Thr	Ala	Lys	Ser	Phe	Val	Ser	Leu	Pro	His	Leu	Pro	Leu
			180				185					190			
His	Ser	Asn	Arg	Gly	Pro	Gly	His	Ile	Tyr	Arg	Thr	Gly	Asp	Leu	Met
			195				200					205			
Arg	Met	Asp	Glu	Asp	Gly	Val	Tyr	Tyr	Tyr	Ile	Gly	Arg	Lys	Asp	Ser
	210					215					220				
Gln	Ile	Lys	Ile	Arg	Gly	Gln	Arg	Val	Glu	Ile	Glu	Ala	Leu	Glu	Ser
225				230					235					240	
Asn	Leu	Val	Gln	Leu	Lys	Ala	Val	Ser	Ala	Ala	Ala	Val	Ile	Lys	Ile
			245					250						255	
Thr	Pro	Lys	Gly	Ala	Gly	Arg	Asn	Pro	Phe	Leu	Val	Ala	Phe	Cys	Val
			260				265					270			
Pro	Ile	Ser	Pro	Cys	Ile	Thr	Ala	Ala	Ala	Ile	Thr	Lys	Glu	Tyr	Val
			275				280					285			
Glu	Gly	Lys	Thr	Ile	Lys	Leu	Val	Leu	Arg	Ile	Glu	Val	Val	Val	Ser
			290			295					300				
Leu	Pro	Leu	Lys	Thr	Asn	Gly	Lys	Thr	Asp	Arg	Lys	Glu	Leu	Glu	His
305				310					315					320	
Arg	Tyr	Leu	Ala	Lys	Ile	Thr	Asp	Ser	Cys	Met	Thr	Ser	Arg	Tyr	Ala
			325						330					335	

Gly Lys Asp Ile Gly Asn Val Glu Ala Lys Leu Lys Ala Leu Cys Val
 340 345 350
 Asp Ile Leu Ser Leu Pro Thr Glu Asp Ile Asp Pro Thr Asp Asp Phe
 355 360 365
 Met Ala Met Gly Thr Asn Ser Leu Met Val Ala Ile Leu Leu Ala Arg
 370 375 380
 Ile Asn Arg Thr Phe Gly Val Ser Leu Gly Ala Ser Lys Ile Tyr Glu
 385 390 395 400
 Asn Pro Thr Leu Arg Ser Leu Thr Asn Leu Leu Glu Thr Thr Gln Gly
 405 410 415
 His Ser Thr Glu Leu Thr Asn Glu Ala Glu Gln Glu Leu Trp Leu Gln
 420 425 430
 Asp Thr Gln Leu Gly Gln His Leu Arg Pro Leu Pro Gly Thr Val Val
 435 440 445
 Asp Trp Glu Asp Val Ser Glu Gly Arg Val Phe Leu Thr Gly Ala Thr
 450 455 460
 Gly Phe Val Gly Ala Phe Phe Leu Ala Glu Leu Leu Arg Met Pro Thr
 465 470 475 480
 Val Lys Lys Val Ala Cys Leu Ile Arg Ala Lys Asn Gln Xaa Ala Gly
 485 490 495
 Arg Leu Arg Leu Glu Asn Val Leu Arg Lys Tyr Gln Ile Tyr Ser Asp
 500 505 510
 Leu Asp Lys Val Val Val Leu Pro Gly Ser Phe Ser Glu Ala Asn Leu
 515 520 525
 Gly Leu Asn Arg Lys Asp Tyr Asp Tyr Tyr Ala Glu Trp Ala Xaa Val
 530 535 540
 Val Phe His Leu Gly Ala Lys Val Ser Tyr Val Ala Pro Tyr Ser Ser
 545 550 555 560
 His Arg Met Asp Asn Val Val Gly Thr Cys Asn Ile Leu Glu Phe Ala
 565 570 575
 Ser Pro Lys Pro Ser Lys Gly His Ser Leu His Leu His His Pro Arg
 580 585 590
 Tyr Met Gly Leu Pro Gly Ser
 595

<210> 32236

<211> 466

<212> PRT

<213> A.fumigatus

<400> 32236

Lys Pro Ala Gly Val Asn Thr Gly Phe Gly Gly Ser Ala Asp Ser Arg
 1 5 10 15
 Thr Asp Arg Val Val Ala Leu Gln Ser Gly Leu Leu Gln Leu Leu Gln
 20 25 30
 Ala Gly Val Leu Val Arg Ser Asp Lys Gly Leu Gln Cys Gln Gln Gln
 35 40 45
 Gln Ser Leu Glu Ser His Ala Met Pro Ala Ser Trp Val Arg Gly Thr
 50 55 60
 Met Leu Val Arg Cys Asn Ser Asn Ala Arg Gly His Ser Ala Val Ser
 65 70 75 80
 Leu Pro Val Ile Glu Ser Leu Leu Arg Leu Ile Glu Asn His Ile Thr
 85 90 95
 Pro Val Val Pro Leu Arg Gly Ser Ile Ser Ala Ser Gly Asp Leu Met
 100 105 110
 Pro Leu Ser Tyr Ile Ala Gly Ala Ile Glu Gly Ser Pro Asp Val Tyr

12607

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      115              120              125
Val Gln Val Gln Asp Ala Asp Lys Thr Arg Ile Met Asn Ser Arg Asp
      130              135              140
Ala Leu Leu Ser Thr Gly Leu Glu Ala Gln Thr Leu Gly Pro Lys Glu
145      150      155      160
Gly Leu Gly Leu Val Asn Gly Thr Ser Ala Ser Ala Ala Leu Ala Ser
      165      170      175
Leu Val Met Tyr Glu Ala His Gln Leu Ala Val Leu Val Gln Ala Leu
      180      185      190
Ser Ala Val Thr Val Glu Ala Leu Met Gly Asn Ala Glu Ser Phe His
      195      200      205
Pro Phe Ile Ser Ala Ile Arg Pro His Asp Gly Gln Ile Glu Cys Ala
      210      215      220
Arg Asn Val Leu Ser Phe Leu Gln Gly Ser Gln Leu Ala Gln Asn Val
225      230      235      240
Glu Arg Asp Leu Lys Asp Arg Asn Arg Pro Gly Leu Ile Gln Asp Arg
      245      250      255
Tyr Ala Leu Arg Thr Val Pro Gln Trp Ile Gly Pro Gln Leu Glu Asp
      260      265      270
Leu Leu Leu Ala His His Gln Val Thr Val Glu Leu Asn Ser Ser Cys
      275      280      285
Asp Asn Pro Leu Val Asp Met Gln Ser Gly Asp Ile Phe Tyr Gly Gly
      290      295      300
Asn Phe Gln Ala Val Ser Ile Thr Ser Ala Met Glu Lys Thr Arg Thr
305      310      315      320
Cys Leu Gln Met Phe Gly Arg Leu Leu Phe Ala Gln Ala Thr Glu Leu
      325      330      335
Ile Asp Pro Asn Leu Asn Asn Gly Leu Pro Thr Asn Leu Val Ala Asp
      340      345      350
Asp Pro Ser Leu Ser Phe Thr Met Lys Gly Val Asp Ile Ser Met Ala
      355      360      365
Ser Tyr Met Ala Glu Leu Ala Tyr Leu Ala Asn Pro Val Ser Ser His
      370      375      380
Val Gln Thr Ala Glu Met His Asn Gln Ser Val Asn Ser Met Ala Phe
385      390      395      400
Val Ser Ser Arg Tyr Thr Met Gln Ala Val Glu Ile Val Ser Leu Met
      405      410      415
Cys Ala Cys Ser Val Tyr Ile Gly Cys Gln Ala Leu Asp Leu Arg Val
      420      425      430
Pro Asn Ser Thr Ser Trp Thr Ala Gln Arg Lys Asn Phe Gln Arg Phe
      435      440      445
Thr Pro His Met Phe Leu Arg Lys Pro Pro Glu Thr Glu Leu Arg Asn
      450      455      460
Pro Gln
465

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<210> 32237

<211> 67

<212> PRT

<213> A.fumigatus

<400> 32237

```

Leu Val Ile Leu Leu Ile His Ser Gly Leu Asn Arg Lys Ile Arg Lys
1              5              10              15
Phe Trp Arg Pro Phe Cys Pro Tyr Asn Ser Ile Asn Leu Asp Ser Glu
      20              25              30

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12608

Glu Gly Cys Glu Gly Ser Val Ser Val Gly Arg His Val Val Pro Tyr
 35 40 45
 Gly His His Thr Tyr Asp Lys Lys Glu Val Lys Tyr Gly Ile Ser Asn
 50 55 60
 Tyr Leu Leu
 65

<210> 32238

<211> 601

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (1), (3), (4)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32238

Xaa His Xaa Xaa Gly Leu Ala Leu Arg Asn Asn Leu Thr Gly Tyr Val
 1 5 10 15
 Pro Leu Thr Ala Val Ser Lys Lys Leu Asp Glu Lys Ile Glu Lys Ile
 20 25 30
 Leu Asn Asp Asn Asp Asn Glu Asp Ser Asp Ala Glu Glu Glu Asp Gly
 35 40 45
 Asp Asp Asp Ser Leu Asp Leu Thr Asp Tyr Phe Tyr Leu Gly Gln Tyr
 50 55 60
 Leu Arg Ala Ser Val Val Ser Val Gly Ser Asn Ala Ala Asp Ala Pro
 65 70 75 80
 Ser Lys Asn Lys Lys Arg Ile Glu Leu Ser Val Asp Pro Arg Gln Ala
 85 90 95
 Asn Ala Gly Leu Ser Lys Ser Asp Leu Glu Val Asn Thr Ala Ile Gln
 100 105 110
 Ala Ser Val Val Ser Val Glu Asp His Gly Leu Val Met Asp Leu Gly
 115 120 125
 Ile Glu Gly Ala Asp Val Lys Gly Phe Met Ser Lys Lys Glu Ile Asp
 130 135 140
 Pro Lys Thr Asp Tyr Ser Ser Ile Lys Glu Gly Ser Val Phe Leu Cys
 145 150 155 160
 Met Val Thr Gly Gln Asn Ala Asn Gly Ser Val Val Lys Leu Ser Ala
 165 170 175
 Asn Leu Gln Ser Ala Gly Ser Ile Lys Lys Ser His Tyr Leu Ser Thr
 180 185 190
 Ala Ser Thr Ile Asn Ser Phe Leu Pro Gly Thr Ala Ala Glu Ile Leu
 195 200 205
 Leu Thr Glu Val Ser Ser Ser Gly Leu Ile Gly Lys Ile Met Gly Met
 210 215 220
 Leu Asp Ala Thr Val Asp Leu Val Gln Ser Gly Gly Asn Ser Gly Lys
 225 230 235 240
 Asp Asp Leu Thr Lys Lys Phe Gln Met Gly Ala Lys Ile Lys Gly Arg
 245 250 255
 Ile Val Cys Thr Phe Pro Ala Ser Glu Pro Phe Lys Val Gly Phe Ser
 260 265 270
 Ile Leu Asp His Val Leu Lys Phe Ala Thr Glu Gly His Gly Pro Gly
 275 280 285
 Thr Ser Glu Asp Ala Pro Ala Ile Ser Ala Ile Ile Pro Glu Thr Lys
 290 295 300

Val Val Met Val Asp Pro Gly Met Gly Val Tyr Val Gln Met Gly Ser
 305 310 315 320
 Thr Lys His Val Gly Phe Val His Val Ser Arg Leu Ala Asp Gly Lys
 325 330 335
 Val Glu His Ile Ala Pro Glu His Gly Pro Phe Arg Ile Asp Ser Val
 340 345 350
 His Glu Ala Arg Val Val Gly Tyr Ser Ala Phe Asp Gly Leu Tyr Leu
 355 360 365
 Leu Ser Phe Glu Arg Lys Val Ile Glu Gln Pro Phe Leu Arg Leu Glu
 370 375 380
 Asp Val Thr Val Gly Thr Val Val Lys Gly Lys Ile Glu Lys Leu Leu
 385 390 395 400
 Ile Gly Pro Ala Gly Val Asp Gly Leu Ile Val Thr Leu Ala Asp Gly
 405 410 415
 Ile Thr Gly Leu Val Pro Ser Met His Phe Ala Asp Thr Ala Leu Gln
 420 425 430
 Phe Pro Glu Lys Lys Phe Arg Glu Gly Met Thr Ile Thr Ala Arg Ile
 435 440 445
 Leu Ser Val Asn Leu Gln Lys Arg Gln Ile Arg Leu Thr Leu Lys Lys
 450 455 460
 Ser Leu Leu Asn Ser Glu Ser Ala Ile Trp Lys Asp Tyr Gln Asp Ile
 465 470 475 480
 Val Pro Gly Ser Gln Ser Pro Gly Thr Ile Val Asn Ile Gln Pro His
 485 490 495
 Gly Ala Val Val Gln Phe Tyr Gly Pro Val Arg Gly Phe Leu Pro Val
 500 505 510
 Ser Glu Met Ser Glu Ala Tyr Ile Lys Asp Pro Ser Gln His Phe Arg
 515 520 525
 Gln Gly Gln Val Val Asn Val His Ala Leu Ser Val Asp Pro Ala Leu
 530 535 540
 Gly Lys Leu Ala Val Ser Cys Lys Asp Pro Ser Thr Phe Thr Glu Thr
 545 550 555 560
 Tyr Arg Lys Ala Phe Glu Lys Ile Gln Pro Gly Leu Arg Val Thr Gly
 565 570 575
 Thr Val Phe Glu Lys Ser Val Asp Asp Val Leu Leu Lys Leu Glu Ser
 580 585 590
 Ser Pro Arg Gly Trp Lys Asp Thr Arg
 595 600

<210> 32239

<211> 597

<212> PRT

<213> A.fumigatus

<400> 32239

His Asn Glu Phe Ser Ile Leu Val Pro Thr Asn His Ala Pro Ser Asn
 1 5 10 15
 Glu Met Ser Ala Asp Ser Ser Ser Pro Leu Val Val Lys Glu Pro Lys
 20 25 30
 Asp Gly Gly Met Pro Thr Glu Gly Glu Lys Leu Arg Leu Val Ile Ile
 35 40 45
 Gly Gly Ala Arg Gly Gly Met Ser Ala Ala Val Arg Ala Arg Arg Leu
 50 55 60
 Asn Glu Asn Ala Ser Ile Ile Val Ile Glu Arg Gly Ser Tyr Ile Ser
 65 70 75 80
 Tyr Thr Asn Cys Phe Ala Pro Phe Ser Leu Gly Gly Ala Ile Glu Arg

													85							90				95		
Asp	Thr	Trp	Ile	Ala	Val	Gln	Thr	Pro	Ala	Gly	Leu	Lys	Ala	Arg	Phe											
			100						105						110											
Asn	Val	Asp	Val	Arg	Val	Cys	Thr	Glu	Leu	Val	Ser	Ile	Ser	Arg	Glu											
			115						120						125											
Arg	His	Ser	Ile	Thr	Val	Arg	Cys	Arg	Lys	Thr	Asp	Thr	Thr	Tyr	Asp											
			130						135						140											
Leu	Pro	Tyr	Asp	Lys	Met	Ile	Leu	Ala	Gln	Gly	Ala	Asp	Pro	Ala	Gly											
145									150						155				160							
Arg	Pro	Met	Ala	Asp	Ile	Glu	Lys	Asp	Lys	Val	Phe	Pro	Leu	Gln	Thr											
								165						170				175								
Pro	Ala	Asp	Leu	Gln	Ala	Ile	Arg	Ser	Phe	Val	Val	Lys	Asn	Asp	Cys											
								180						185				190								
Arg	Glu	Val	Val	Ile	Leu	Gly	Gly	Ala	Phe	Thr	Gly	Leu	Lys	Ala	Val											
								195						200				205								
Glu	Ser	Leu	His	Ser	Phe	Gly	Leu	His	Val	Arg	Val	Val	Glu	Ala	Gly											
								210						215				220								
Asp	Arg	Leu	Cys	Pro	Glu	Phe	Asp	Pro	Asp	Phe	Ala	Thr	Ile	Ile	Gln											
225									230						235				240							
Lys	Glu	Leu	Val	Lys	Arg	Gly	Val	Gly	Ile	His	Leu	Gly	Arg	Gly	Glu											
								245						250				255								
Cys	Gln	Thr	Ile	Ala	Glu	Thr	Glu	Asp	Ser	Asp	Arg	Cys	Arg	Ile	Glu											
								260						265				270								
Phe	His	Asp	Gly	Ser	Ser	Leu	Ser	Ala	Asp	Leu	Val	Val	Val	Ala	Thr											
								275						280				285								
Glu	Pro	Glu	Pro	Arg	Val	Gln	His	Ala	Lys	Asn	Ala	Gly	Leu	Thr	Val											
								290						295				300								
Arg	Lys	Gly	Ile	Val	Val	Asn	Ala	Phe	Met	Gln	Thr	Ser	Asp	Pro	Asp											
305									310						315				320							
Ile	Tyr	Ala	Val	Gly	Ser	Val	Ala	Glu	Val	Val	Asn	Ser	Ile	Ser	His											
								325						330				335								
Met	Pro	Gln	Val	Ser	Ser	Ser	Met	Ser	Gly	Ala	Ser	Asn	Arg	Gln	Gly											
								340						345				350								
Arg	Leu	Ala	Ala	Asp	His	Ile	Phe	Thr	Arg	Ala	Thr	Ala	Tyr	Pro	Gly											
								355						360				365								
Thr	Ala	Gly	Thr	His	Val	Tyr	His	Val	Phe	His	Leu	Thr	Ala	Ala	Ile											
								370						375				380								
Thr	Gly	Leu	Ser	Val	Ser	Glu	Leu	Arg	Gln	Ile	Gly	Tyr	Asp	Pro	Gln											
385									390						395				400							
Ser	Val	Thr	Ile	His	Gln	Pro	Asp	His	Ala	Gly	Tyr	Phe	Pro	Ser	Ala											
								405						410				415								
Gln	Gln	Leu	Thr	Leu	Arg	Val	Ala	Phe	Glu	Arg	Ala	Ser	Gly	Val	Leu											
								420						425				430								
Leu	Gly	Ala	Gln	Ile	Ile	Gly	His	Ser	Gly	Val	Asp	Gly	Arg	Ile	Asp											
								435						440				445								
Val	Leu	Ala	Thr	Ala	Met	Gln	Ala	Gly	Met	Thr	Val	Phe	Asp	Leu	Glu											
								450						455				460								
His	Leu	Glu	Leu	Ser	Tyr	Met	Pro	Gln	Tyr	Gly	Ser	Val	Arg	Asp	Pro											
465									470						475				480							

12611

530 535 540
 Ile Gly Lys Asp Arg Pro Val Leu Val Tyr Ser Arg Val Gly Tyr His
 545 550 555 560
 Gly Tyr Leu Ala Tyr Arg Asn Leu Val Gln Ser Gly Tyr Arg Ala Ala
 565 570 575
 Asn Leu Asp Gly Gly Leu Lys Leu Phe Thr Asp Gly Gly Tyr Gln Pro
 580 585 590
 Gln Leu Thr Val Asp
 595

<210> 32240
 <211> 178
 <212> PRT
 <213> A.fumigatus

<400> 32240
 Cys Ile Val Ala Trp Arg Lys Val Leu Lys Asp Leu Ile Ile Phe Phe
 1 5 10 15
 Lys Glu Val Gln Lys Ser Tyr Glu Thr Arg Ser Lys Leu Tyr Leu Ser
 20 25 30
 Ala Ser Asn Val Val Asn Asn Ala Ser Leu Pro Pro Thr Phe Leu Lys
 35 40 45
 Ser Gly Gly Leu Ala Asp Ala Thr Asp Ile Leu Arg Asp Phe His Arg
 50 55 60
 Gln Gly Tyr Leu Glu Ala Asn Lys Ala Ala Glu Val Glu Ser Glu Val
 65 70 75 80
 Val Asn Gln Leu Met Gly Leu Arg Asn Asp Leu Gln Lys Lys Thr Lys
 85 90 95
 Glu Ile Lys Ser Leu Gln Gly Asp Phe Arg Asn Ser Val Asp Lys Glu
 100 105 110
 Val Glu Asn Thr Arg Lys Thr Val Arg Gln Leu His Glu Ala Leu Gly
 115 120 125
 Leu Val Asp Thr Asp Pro Ser Ala Thr Ser Gly Lys Gly Asp Pro Phe
 130 135 140
 Ile Ile Arg Leu Ser Val Asp Arg Gln Ile Glu Lys Gln Ile Glu Glu
 145 150 155 160
 Glu Asn Tyr Leu His Arg Val Ser Leu Ser Glu Ala Ser Tyr Arg Leu
 165 170 175
 Asn His

<210> 32241
 <211> 83
 <212> PRT
 <213> A.fumigatus

<400> 32241
 Thr Ile Asp Thr Ala Val Arg Leu Val Thr Glu Leu Asp Tyr Pro Asp
 1 5 10 15
 Ser Tyr Ser Asp Arg Val Leu Arg Ser Asp Ser Phe Tyr Asp Tyr Tyr
 20 25 30
 Met Ile Ser Phe Thr Ile Pro Phe Ala Pro Pro Val Leu Leu Ile Thr
 35 40 45
 Ala Asn Ser Arg Ser Ile Ser Asn Ala Ser Gly Gln Thr Asp Asn Ala
 50 55 60
 Leu Ile Gly Ala Leu Pro Tyr Leu Thr Thr Gly Ile Ala Leu Pro Asp

12612

65

70

75

80

Tyr Pro Gly

<210> 32242

<211> 113

<212> PRT

<213> A.fumigatus

<400> 32242

Ala Phe Leu Asn Leu Glu Asn Ser Gly Arg Glu Leu Glu Ser Ile Val
1 5 10 15
Val Ser Glu Ile Gln Lys Ala Tyr Asn Ala Tyr Ala Ser Ile Leu Lys
20 25 30
Arg Glu Ala Asp Glu Ala Tyr Asp Thr Val Glu Lys Leu Arg Thr Gly
35 40 45
Pro Ile Ser Met Pro His Asp His Glu Trp Asn His Phe Ile Ala Asn
50 55 60
Thr Asp Glu Leu Val Asp Pro Arg Val Ser Leu Arg Asn Val Glu Asn
65 70 75 80
Ile Thr Tyr Pro Gly Lys Asp His Pro Ala Ala Ala Glu Val Arg Ser
85 90 95
Gly Met Leu Glu Arg Lys Ser Lys Tyr Leu Lys Ser Tyr Thr Pro Gly
100 105 110
Trp

<210> 32243

<211> 132

<212> PRT

<213> A.fumigatus

<400> 32243

Leu Asp Ile Arg Tyr Val Leu Ser Pro Thr His Leu His Glu Phe Lys
1 5 10 15
Ser Ala Asp Arg Val Ala Trp Gln Thr Pro Val Met Ser Leu Tyr Leu
20 25 30
Pro Glu Gln Lys Leu Gly Ser His Ser Gln Pro Asp Ser Thr Ser His
35 40 45
Lys Phe Met Leu Lys Gly Arg Gln Thr Gly Pro Met His Arg Gly His
50 55 60
Ser Trp Val Phe Arg Ala Glu Ser His Glu Thr Met Met Ala Trp Tyr
65 70 75 80
Glu Asp Ile Glu Ser Leu Ile Ser Lys Thr Gly Glu Ala Arg Tyr Ala
85 90 95
Tyr Val Arg Arg His Val Arg Thr Val Asn Arg Ala Ser Ala Ser Thr
100 105 110
Thr Leu Ile Trp Met Lys Thr Lys Pro Ile Ala His Arg Met Gln Arg
115 120 125
Arg Pro Val Gly
130

<210> 32244

<211> 354

<212> PRT

<213> A.fumigatus

<400> 32244

Gln Ser Ser Trp Glu Leu Ile Thr Thr His Leu Ser Ser Gln Gln Leu
 1 5 10 15
 Gly Glu Pro Phe Asn Ser Ile Leu Trp Arg Arg Ala Glu Lys Met Cys
 20 25 30
 Leu Ile Glu Lys Tyr Thr Asp Val Tyr Pro Met Glu Ile Arg Thr Arg
 35 40 45
 Thr Val Ile Arg Arg Cys Leu Phe Ser Asp Gly Arg Gly Thr Cys Asp
 50 55 60
 Arg Ala Arg Val Tyr Asp Arg Gly Glu Phe Tyr His Val Arg Gln Ser
 65 70 75 80
 Gln Gln Gly Gly Pro Arg Arg Met Thr Ser Pro Arg Ile Lys Thr Ile
 85 90 95
 Val Pro Arg Asn Leu Ser Glu Thr Arg Cys Gln Glu Glu His Arg His
 100 105 110
 Pro Ser Pro Thr Trp Arg Leu Ser Gln Ala Arg Ser Arg Ser Tyr Ser
 115 120 125
 Phe Arg Ile Pro Ile Ser Arg Arg Ser Ser Glu Thr Ser Asp Arg Glu
 130 135 140
 Thr Leu Cys Glu Arg Arg Gly Arg Gln Arg Ser Pro His Pro Ile Val
 145 150 155 160
 Val Asp Ser Pro Glu Val Glu Glu Arg Thr Pro Arg Asn Asp Arg Pro
 165 170 175
 Asp Ser Val Arg Ile Arg Cys Ile Ser Pro Gln Ala Gly Arg Ala Pro
 180 185 190
 Thr Thr Thr Asp Arg Glu Gln Ala Asn Asp Val Val Glu Ile Pro Arg
 195 200 205
 Gln Ala Arg Ser Gln Gln Pro Ser Arg Glu Gln Arg Pro Pro Arg Glu
 210 215 220
 Arg Thr Pro Val Thr Glu Arg Glu Pro Val Gln Arg Arg Pro Arg Arg
 225 230 235 240
 Ser Leu Asn Cys Val Val Asp Ile His Asn Asp Ala Ala Ala Ser Gln
 245 250 255
 Asp Arg Gln Arg Gln Ser Ala Glu Pro Arg Gln Val Arg Phe Ser Ser
 260 265 270
 Asp Val Glu Tyr Glu Met Asn Val Asn Ser Thr Arg Ala Arg Asn Arg
 275 280 285
 Ser Ala Ala Phe His Gln Glu Glu Ser Ile Asp Ala Arg Ala Pro Thr
 290 295 300
 His Arg Ser Leu Phe Thr Gln Gln Pro Phe Cys Lys Arg Arg Arg Gln
 305 310 315 320
 Gln Glu Gln Arg Gly Arg Ala Ile Ser Arg Glu Ser Asn Pro Tyr Pro
 325 330 335
 Arg Val His Ser Ser Gln Ser Arg Lys Gly Glu Asp Ser Arg Ile Gln
 340 345 350
 Glu Asp

<210> 32245

<211> 70

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (41)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32245

```

Arg Asp Met Glu Asn Ser Pro Leu Cys Pro Ala Arg Phe Ile Ser Ser
1           5           10           15
Glu Asp Gly Thr Arg Arg Glu Phe Lys Lys Ser Lys His Asp Asp Lys
          20           25           30
Arg Lys Ala Ile Thr Leu Cys Pro Xaa Phe His Glu Leu Phe Ser Ala
          35           40           45
Pro Ile Thr Leu Val Glu His Val Gln Val Glu Pro Phe Asp Pro Leu
          50           55           60
Leu Lys Ser Thr Gln Leu
65           70

```

<210> 32246

<211> 86

<212> PRT

<213> A.fumigatus

<400> 32246

```

Gly His Asp Ile Gly Tyr Pro Thr Trp His Gln Lys Met Ala Leu His
1           5           10           15
Gln Phe Asp Tyr Leu Phe Ala Leu Gly Thr Ile Phe Ala Phe Leu Asp
          20           25           30
Ala Tyr Asn Ile Gly Ala Asn Asp Val Ala Asn Ser Trp Ala Thr Ser
          35           40           45
Val Ser Ser Arg Ser Leu Gln Tyr Trp Gln Ala Met Val Leu Ala Ser
          50           55           60
Ile Met Glu Phe Ser Gly Arg Tyr Val Cys Ser Gly Thr Gly Ile Ala
65           70           75           80
Phe Pro Phe Gly Gly Tyr
          85

```

<210> 32247

<211> 178

<212> PRT

<213> A.fumigatus

<400> 32247

```

Leu Phe Cys Asn Ser Ile Gly Val Gly Ala Arg Val Ala Asp Thr Ile
1           5           10           15
Arg Thr Lys Ile Val Asp Val Lys Ala Phe Glu Glu Asn Pro Ala Leu
          20           25           30
Leu Met Leu Gly Met Val Cys Ala Val Thr Ala Ser Ser Ile Tyr Leu
          35           40           45
Thr Val Ala Thr Arg Leu Gly Met Pro Val Ser Thr Thr His Ser Ile
          50           55           60
Met Gly Gly Val Ile Gly Met Gly Ile Ala Ala Leu Gly Ser Asp Gly
65           70           75           80
Ile Gln Trp Trp Gly Gly Asp Ile Asn Ser Gly Val Val Gln Val Phe
          85           90           95
Leu Ala Trp Ile Ile Ala Pro Val Leu Ser Gly Ala Phe Gly Ala Ile
          100          105          110
Ile Phe Leu Leu Thr Arg Tyr Gly Val Met Glu Arg Lys Asn Ser Val
          115          120          125

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12615

Leu Lys Ala Phe Ile Ser Ile Pro Ile Tyr Phe Gly Ile Thr Ser Ala
 130 135 140
 Leu Leu Thr Ser Met Val Pro Gly Pro Ser Thr Met Leu Asp Asp Thr
 145 150 155 160
 Asp Trp His Ser Ala Tyr Arg Val Glu Gly Trp Phe Gln Gln Asn Gln
 165 170 175
 Ala His

<210> 32248
 <211> 393
 <212> PRT
 <213> A.fumigatus

<400> 32248
 Arg Leu Ser Ser Pro Ser Leu Ser Thr Leu Ala Ser Pro Pro Leu Cys
 1 5 10 15
 Ser Pro Val Trp Ser Pro Ala Leu Ala Arg Cys Leu Met Ile Leu Thr
 20 25 30
 Gly Thr Val Leu Ile Val Trp Lys Gly Gly Ser Ser Arg Ile Lys Leu
 35 40 45
 Thr Asp Ser Glu Thr Thr Gly Val Ile Ile Gly Val Gly Ala Ala Val
 50 55 60
 Ala Leu Leu Val Ala Val Phe Phe Leu Pro Trp Leu Tyr Arg Arg Leu
 65 70 75 80
 Ile Lys Glu Asp Trp Gln Leu Lys Trp Tyr His Leu Phe Met Gly Pro
 85 90 95
 Leu Val Leu Arg Arg Gly Glu Val Pro Pro Pro Glu Gly Tyr Lys
 100 105 110
 Thr Val Gln Asp Tyr Tyr Lys Gly His Lys Thr Leu Glu Leu Glu
 115 120 125
 Arg Glu Arg Ala Asn Ile Glu Arg Ala Gly Pro Ser Asp Glu Glu Ser
 130 135 140
 Glu Pro Ala Val Asp Lys Glu Gly Lys Glu Gly Gln Ala Ala Ala Ala
 145 150 155 160
 Ser Val Glu Ile Glu Glu Pro Lys Phe Thr Leu Ile Gly Pro Arg Pro
 165 170 175
 Asp Gly Ala Ala Phe Ser Pro Ala Val Leu Phe Trp Gln Phe Arg Arg
 180 185 190
 Phe Phe Phe Arg Gly Ile Glu Gln Asp Val Val Ser Leu Gln Lys Lys
 195 200 205
 Arg Asn Ile Leu Thr Gly Asp Leu Glu Met Val His Ala His Ala Arg
 210 215 220
 His Tyr Asp Asn Lys Ala Glu Tyr Met Tyr Ser Phe Leu Gln Val Met
 225 230 235 240
 Thr Ala Ser Thr Ala Ser Phe Thr His Gly Ala Asn Asp Val Ser Lys
 245 250 255
 Tyr Val Ser Ser Arg Leu Cys Val Leu Lys Pro Ala Asp Arg Phe Ile
 260 265 270
 Gln Arg Cys Trp Ser Leu Cys His His Leu Leu Cys Leu Val Asn Gln
 275 280 285
 Pro Ala Gln Val Gln Glu Ser Arg Ser Val Leu Asp Pro Val Ser Ser
 290 295 300
 His Phe Asp Ile His Arg His Ile Leu Ile Asn Leu Arg Ala Phe Gly
 305 310 315 320
 Gly Ala Ala Ile Val Ile Gly Leu Trp Thr Tyr Gly Tyr Asn Ile Met

12616

```

          325          330          335
Arg Asn Leu Gly Asn Arg Ile Thr Leu His Ser Pro Ser Arg Gly Phe
          340          345          350
Ser Met Glu Leu Gly Ser Ala Ile Thr Val Ile Met Ala Thr Lys Leu
          355          360          365
Ser Met Leu His Pro Leu Cys Phe Thr Asp His Asn Arg Val Phe Thr
          370          375          380
Thr Gly Leu Glu Gly Ala Ala Leu Ile
385          390

```

<210> 32249
 <211> 115
 <212> PRT
 <213> A.fumigatus

```

<400> 32249
Arg Thr Leu Ala Gly Pro Arg Ala Cys Asn Lys Lys Asp Pro Val Thr
1          5          10          15
His His His Phe Gly Phe Cys Tyr Thr Ser Leu Ala Phe Ser Glu Val
          20          25          30
Leu Ile His Ser Val Met Ser Pro Ile Asn Pro Ile Ile Pro Gly Phe
          35          40          45
Ala Pro Asp Pro Ser Val Val Lys Val Gly Glu Trp Phe Phe Leu Ile
          50          55          60
Asn Ser Ser Phe His Leu Phe Pro Gly Leu Pro Ile Tyr Ala Ser Gln
65          70          75          80
Asp Leu Val Ser Trp Arg His Ile Gly Ser Arg Ser Ser Arg Asp Glu
          85          90          95
Ile Thr Ser Ala Lys Leu Met Gln His Gln Glu Thr Gln Leu Ile Ala
          100          105          110
Asn Leu Ser
          115

```

<210> 32250
 <211> 472
 <212> PRT
 <213> A.fumigatus

```

<400> 32250
Asn His Gln Cys Lys Thr Asn Ala Thr Pro Gly Asn Ala Ile Asn Arg
1          5          10          15
Gln Ser Gln Leu Ser Leu Ser Arg Ser Lys Thr Glu Leu His Pro Leu
          20          25          30
Pro Thr Gly Glu Val Leu Val Ala Thr Gly Gly Leu Tyr Ala Pro Thr
          35          40          45
Ile Arg Tyr His Asp Gly Thr Phe Tyr Val Val Cys Thr Asn Val Val
          50          55          60
Arg Thr Val Thr Gly Asp Ser Thr Gln Asn Phe Ile Ile Ser Ser Lys
65          70          75          80
Asp Ile Trp Ala Asp Ser Trp Ser Asp Pro Val Tyr Phe Glu Phe Asp
          85          90          95
Gly Ile Asp Pro Ser Leu Phe Phe Asp Asp Asp Gly Lys Thr Tyr Ile
          100          105          110
Gln Gly Ser Ala Ala Pro Gly Pro Phe Thr Thr Ile Asn Met Phe Glu
          115          120          125
Ile Asp Leu Gly Ser Gly Arg Lys Leu Ser Glu Glu Arg Thr Ile Trp

```

130 135 140
 Arg Gly Thr Gly Gly Ile Tyr Pro Glu Gly Pro His Leu Tyr Lys Gln
 145 150 155 160
 Lys Gly Tyr Tyr Tyr Val Val Ile Ala Glu Gly Gly Thr His Glu Gly
 165 170 175
 His Met Val Thr Met Ala Arg Ser Thr Asp Ile Trp Gly Pro Tyr Glu
 180 185 190
 Gly Cys Pro Asp Asn Pro Val Leu Thr Ala Arg Asp Thr Asp Glu Tyr
 195 200 205
 Ile Gln Tyr Thr Gly His Cys Asp Val Phe Gln Asp Asp Arg Asp Gln
 210 215 220
 Trp Trp Cys Thr Cys Leu Gly Val Arg Lys Asp Lys Asn Gly Arg Tyr
 225 230 235 240
 Val Met Gly Arg Glu Thr Phe Leu Thr Gln Gly Arg Trp Asp Gly Asp
 245 250 255
 Trp Leu Ser Leu Asp Gln Val Lys Pro Met Pro Ser Gly Leu Leu Ser
 260 265 270
 Arg Gly Glu Gly Lys Lys Leu Val Ala Asn Pro Ser Val Asp Tyr Val
 275 280 285
 Tyr Ile Arg Asp Ala Ile Leu Ser Asn Tyr Thr Leu Pro Ser Ser Ala
 290 295 300
 Ser Asp Gly Leu Thr Leu Thr Ala Ser Ser Ala Asp Leu Ser His Pro
 305 310 315 320
 Glu Lys Ser Pro Ser Phe Ile Gly Lys Arg Gln Arg His Leu Asp Gly
 325 330 335
 Cys Ser Gly Val Glu Leu Asp Ile Val Glu Ala Thr Trp Met Ala Thr
 340 345 350
 Lys Leu Arg Ala Gly Met Ala Cys Tyr Lys Asp Glu His Arg Phe Leu
 355 360 365
 Arg Ile Tyr Tyr Asp Ala Thr Glu Leu Ala Ile Val Thr Glu Thr Ile
 370 375 380
 Asn Lys Pro Lys Gly Ile Cys Arg Gln Glu Arg Leu Thr Leu Glu Ser
 385 390 395 400
 Leu Pro Lys Ser Ile Ala Phe Arg Ile Gln Tyr Thr Glu Gln Glu Tyr
 405 410 415
 Arg Leu Phe His Thr Val Gly Asn Ala Gly Gln Ala Asn Trp Lys Cys
 420 425 430
 Val Ser Thr Ile Asp Thr Leu Asn Leu Thr Gly Pro Asp Phe Thr Gly
 435 440 445
 Pro Val Ile Gly Val Phe Ala Val Ala Glu Ser Thr Asp Thr Glu Val
 450 455 460
 Arg Phe Arg Asn Leu Thr Ile Cys
 465 470

<210> 32251

<211> 111

<212> PRT

<213> A.fumigatus

<400> 32251

Val Val Thr Ala Ala Pro Ser Ser Arg Ser Cys Thr Ala Leu Leu Thr
 1 5 10 15
 Thr Cys Gln Pro Gly Leu Cys Ile Pro Ile Gln Val Pro Tyr Asn Ser
 20 25 30
 Ile Leu Gln Leu Ser Val Ser Met Glu Ser Val Arg Gln Ser Cys Arg
 35 40 45

12618

Pro	Lys	His	Gln	Val	Leu	Val	Leu	Lys	Cys	Tyr	Pro	Gln	Tyr	Gln	Lys
50						55					60				
Gly	Val	Gln	Asp	Val	Lys	Pro	Asn	Ser	Ser	Glu	Leu	Ser	Tyr	Leu	Leu
65					70					75					80
Tyr	Tyr	Val	Ser	Thr	Arg	Arg	Ser	Lys	Leu	Thr	Lys	Val	Gly	Ala	Phe
				85					90					95	
Leu	Glu	Lys	Arg	Ala	Ala	Arg	Asp	Val	Trp	Arg	Asn	Lys	Leu	Gly	
			100					105					110		

<210> 32252

<211> 445

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (444)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32252

Val	Pro	Ser	Glu	Pro	Ala	Arg	Ser	His	Gln	Pro	Ser	Arg	Trp	Gln	Ser
1				5					10					15	
Pro	Leu	Thr	Tyr	Leu	Gly	Ile	Leu	His	Arg	Asn	Val	Gln	Val	Thr	Leu
			20					25				30			
Gln	Ile	Leu	Thr	Ala	Leu	Ile	Glu	Lys	Val	Pro	Arg	Asp	Leu	Pro	Ile
			35				40					45			
Tyr	Ala	Arg	Ser	Val	Met	Asn	Val	Leu	Glu	Thr	Val	Leu	Arg	Ser	Gly
			50			55					60				
Asp	Leu	Ser	Met	Val	Glu	Glu	Ser	Ile	Ser	Thr	Phe	Glu	Thr	Phe	Cys
65				70					75						80
Gln	His	Gln	Asp	Met	Ala	Ala	Leu	Ser	Ala	Glu	Gln	Asp	Phe	Ala	Ser
			85					90						95	
Gln	Tyr	Arg	Glu	Val	Val	Arg	Thr	Tyr	Ala	Asp	Phe	Ala	Asp	Gln	Thr
			100					105					110		
Lys	Ser	Val	Ser	Gln	Leu	Lys	Thr	Ala	Pro	Ser	Ser	Pro	Met	Val	Ile
			115				120					125			
Arg	Trp	Arg	Thr	Ala	Gly	Leu	Arg	Ala	Ile	Lys	Gly	Val	Val	Ser	Ser
			130			135					140				
Glu	Ala	Gly	Leu	Ala	Ala	Asp	Gly	Gly	Asp	Ser	Leu	Arg	Ile	Leu	Leu
145				150					155						160
Pro	Val	Ile	Leu	Glu	Cys	Leu	Tyr	Asn	Gly	Asp	Asp	Ser	Leu	Leu	Ala
				165				170					175		
Ser	Leu	Glu	Leu	Arg	Leu	His	Glu	Ser	Glu	Lys	Asn	Glu	Pro	Ala	Leu
			180				185					190			
Gly	Arg	Arg	Arg	Arg	Ile	Ser	Thr	Ala	Thr	Val	Gln	Thr	Val	Asp	Ala
			195				200					205			
Met	Asp	Gly	Asp	Pro	Ala	Leu	Ala	Ser	Gln	Ser	Ala	Ala	Asp	Val	Asp
			210			215					220				
Arg	Gln	Ala	Glu	Met	Asp	Met	Arg	Leu	Leu	Ala	Leu	Arg	Cys	Leu	Glu
225				230					235						240
Arg	Ile	Val	Val	Thr	Gly	Ser	Ser	Arg	Gly	Gln	Ile	Arg	Val	Thr	Thr
				245				250						255	
Lys	Val	Val	Leu	Gln	Phe	Ile	Leu	Gly	Asn	Ser	Pro	Leu	Ser	Glu	Asp
			260				265					270			
Gly	Lys	Pro	Met	His	Met	Asp	Ser	Thr	Gly	Gly	Trp	Ala	Thr	Ser	Leu
			275				280					285			

12619

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Val Glu Leu Val Ala Lys Trp Cys Pro Val Gln Val Arg Phe Ile Ile
  290                295                300
Leu Val Ser Ala Met Glu Met Leu Leu Glu Asn Gln Pro Ser Glu Glu
305                310                315                320
Thr Leu Gln Arg Ser His Ala Leu Ile Tyr Leu Ile Asp Trp Leu Leu
                325                330                335
Lys Ser Pro Val Asn Met Ile Gly Leu Ser Val Ile Asp Ile Leu Leu
                340                345                350
Gly Leu Met Gln Phe Met Ser Thr Leu Leu Ser Arg Pro Ala Ser Ala
                355                360                365
Arg Ser Ala Glu Gln Gly Leu Asp Glu Lys Leu Gly Asp His Asp Leu
                370                375                380
Val Leu Ser Pro Glu Arg Leu Lys Met Leu Ala Leu Leu Gln Arg Thr
385                390                395                400
Ile Gly Asp Leu Thr His Ile Tyr Tyr Gly Asp Gln Val Val Asp
                405                410                415
Met Val Arg Thr Ile Leu Thr Arg Val Lys Pro Ser Ser Ser Pro Arg
                420                425                430
Gly Trp Lys Val Pro Lys Arg Leu Ala Gln Gly Xaa Phe
                435                440                445

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<210> 32253
 <211> 181
 <212> PRT
 <213> A.fumigatus

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<400> 32253
Asp Leu Trp Thr Phe Gln Pro Ala Val Val Lys Thr Asn Tyr Trp Ala
1                5                10                15
Ile Lys Ala Leu Asn Ala Ser Arg Ser Ala Trp Met Ser Ala Trp Ser
                20                25                30
Phe Arg Val Trp Arg Ser Ala Ser Ser Leu Gln Thr Val Ser Tyr Leu
                35                40                45
Val Phe Thr Pro Val Ile Glu Thr Arg Thr Gly Gln Ile Val Val Arg
50                55                60
Pro Pro Arg Phe Gly Pro Gly Ser Ser Asp Arg Pro Pro Pro Pro Ser
65                70                75                80
Pro Tyr Leu His Leu Ala Gly Ala Ser Pro Ala Pro Ser Pro Ala Ser
                85                90                95
Arg Val Ser Ala Ser Gly Ser Pro Arg Pro Ala Gly Ser Pro Cys His
                100                105                110
Trp Ser Ser Cys Pro Gly Gly Ala Ser Ala Arg Gln Met Val Ser Trp
                115                120                125
Ala Ala Leu Ala Thr Thr Pro Pro Gly Cys Glu Ser Arg Ser Ser His
130                135                140
Ala Ser Ala Ala Arg Cys Gly Trp Pro Arg Gly Cys Gly Ser Pro Pro
145                150                155                160
Arg Val Ala Pro Phe Pro Pro Arg Asn Ala Ala Pro Ala Ala Ala
                165                170                175
Pro Leu Pro Phe Pro
                180

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<210> 32254
 <211> 282
 <212> PRT
 <213> A.fumigatus

<400> 32254

Gly Arg Gln Thr Met Ala Phe Arg Leu Ser Ser Ser Arg Pro Pro Pro
 1 5 10 15
 Leu His Ile Glu Ser Asn Gly Arg Thr Ala Ser Ala Ser Ser Ser Asp
 20 25 30
 Ser Lys His Pro Lys Thr Pro Gly Asn Lys Ile Ser Ser Phe Phe Gly
 35 40 45
 Trp Lys Ala Val Thr Thr Ser Pro Ser Ala Glu Ser Ser Ser Thr Glu
 50 55 60
 Ile Ser Asp Ser Gly Arg Ser Pro Leu Pro Ser Pro Met Pro Pro Ser
 65 70 75 80
 Met Pro Thr Thr Ser Phe Ser Ile Thr Pro Ser Thr Thr Val Pro Phe
 85 90 95
 Asp Pro Thr Arg Val Pro Ala Arg Asn Pro Ser Leu Ser Gly Ala Ser
 100 105 110
 Ile Leu Glu Ala Ala Ser Ala Ser Lys Leu Ala Asp Leu Glu Asn Glu
 115 120 125
 Leu Arg Glu Ile Ser Ser Glu Leu Ala Gly Ser Ile Arg Arg Glu Met
 130 135 140
 Glu Leu Glu Asp Leu Val Glu Arg Leu Gln Ser Glu Ile Pro Gln Asp
 145 150 155 160
 Ala Asn Arg Arg Thr Ser Asp Tyr Phe Ser Asp Ser Gly Thr Ser Ser
 165 170 175
 Ile Arg Tyr Ile Tyr Asp Ala Ser Gly Lys Ile Asp Asp Leu Asp Lys
 180 185 190
 Tyr Arg Arg Ala Ala Glu Gln Glu Arg Ala Gln Leu Lys Val Glu Leu
 195 200 205
 Ser Gln Lys Trp Gln Glu Glu Arg Ala Arg Arg Ala Ala Thr Glu Ser
 210 215 220
 His Val Gln Ile Leu Glu Ser Gln Val Asn Gln Val Trp Phe Pro Pro
 225 230 235 240
 Leu Val Leu Ser Ala Leu Ala Gln Leu Met Trp Ser Val Thr Thr Arg
 245 250 255
 Glu Ser Arg Val Leu Arg Pro Ile Ile Gln Gly Ser Gly Ala Arg Asp
 260 265 270
 Cys Ser Gly Arg Tyr Pro Gln Lys Thr Gly
 275 280

<210> 32255

<211> 111

<212> PRT

<213> A.fumigatus

<400> 32255

Pro Arg Ala Glu Asp Ala Lys Arg Trp His Ser Val Tyr His Pro Ala
 1 5 10 15
 Ala His Arg Leu Cys Thr Ser Ser Pro Thr Val Glu Pro His Arg Pro
 20 25 30
 Ala Pro Arg Thr Arg Asn Ile Pro Arg Pro Leu Gly Thr Lys Ser Ala
 35 40 45
 Pro Phe Ser Ala Gly Lys Pro Ser Pro His Arg Pro Ala Arg Ser Pro
 50 55 60
 Arg Ala Pro Arg Ser Arg Ile Arg Ala Gly Pro Leu Ser His Leu Arg
 65 70 75 80
 Cys Leu Leu Gln Cys Pro Pro Pro Pro Ser Pro Ser Pro Pro Arg Pro

12621

				85					90					95			
Gln	Ser	His	Leu	Ile	Pro	Leu	Gly	Ser	Arg	Pro	Ala	Thr	Pro	Pro			
			100					105					110				

<210> 32256
 <211> 523
 <212> PRT
 <213> A.fumigatus

<400> 32256

Cys	Gly	Gln	Leu	Arg	Arg	Glu	Arg	Val	Glu	Ser	Ser	Asp	Leu	Ser	Ser		
1				5					10					15			
Lys	Ala	Arg	Glu	Leu	Glu	Ile	Ala	Leu	Glu	Asp	Thr	Arg	Arg	Lys	Leu		
			20					25					30				
Ala	Glu	Glu	Arg	Gln	Ile	Lys	Asp	Asn	Phe	Glu	Asp	Leu	Leu	Thr	Ala		
			35				40					45					
Met	Arg	Val	Glu	Leu	Glu	Gln	Leu	Arg	Asn	Glu	Arg	Asp	His	Leu	Arg		
			50			55					60						
Asp	Asn	Val	Ile	Pro	Gln	Leu	Gln	Gln	Gln	Gln	Gln	Gln	Pro	Pro	Gln		
65					70				75						80		
Ser	Thr	Pro	Ala	Pro	Glu	Ser	Ser	Glu	Ile	Gln	Arg	Leu	Leu	Gly	Glu		
				85					90					95			
Ile	Glu	Ala	Leu	Lys	Ile	Glu	Asn	Ala	Ser	Leu	Ala	Gln	Leu	Gln	Gly		
			100					105					110				
Ser	Arg	Phe	Ala	Ser	Ile	Ala	Glu	Glu	Gly	Gly	Leu	Pro	Gln	Arg	Arg		
			115				120					125					
Pro	Ala	Gly	Leu	Gly	Leu	Ser	Arg	Ser	Asn	Ser	Leu	Ala	Arg	His	Ser		
			130			135					140						
Lys	Ser	Ser	Gly	Val	Gly	Gly	Leu	Ser	Arg	Ser	Asn	Ser	Leu	Ser	Arg		
145					150					155					160		
Ser	Asn	Ser	Val	Ser	Thr	Lys	Asp	Arg	Pro	Asp	Arg	Glu	Thr	Leu	Ala		
				165					170					175			
Asp	Arg	Met	Glu	Asp	Val	Glu	Ala	Gln	Arg	Asp	Ala	Leu	His	Gln	Ala		
			180					185					190				
Leu	Arg	Tyr	Leu	Leu	Met	Arg	Gln	Glu	Gln	Gln	Ala	Arg	Glu	Tyr	Glu		
			195				200					205					
Lys	Arg	Leu	Lys	Leu	Met	Glu	Leu	Glu	Leu	Ala	Arg	Ala	Gln	Glu	Leu		
			210			215					220						
Gly	Ser	Pro	Arg	Arg	Leu	Gly	Tyr	Glu	Arg	Glu	Val	Arg	Asn	Leu	Arg		
225					230					235				240			
Glu	Glu	Val	Asn	His	Leu	Arg	Gln	Arg	Ala	Glu	Asp	Ala	Leu	Glu	Gln		
				245					250					255			
Lys	Trp	Gln	Cys	Glu	Lys	Gly	Leu	Ala	Gly	Leu	Lys	Met	Asp	Leu	Asp		
			260					265					270				
Arg	Ala	Glu	Gln	Glu	Thr	Thr	Ser	Leu	Arg	Val	Leu	Leu	Gln	Glu	His		
			275				280					285					
Asp	Ile	Ala	Phe	Pro	Glu	Gly	Thr	Glu	Ser	Glu	Arg	Asp	Gly	Phe	Ala		
			290			295					300						
Glu	Val	Ile	Ala	Thr	Ser	Ser	Tyr	Leu	Glu	Met	Ala	Tyr	Lys	Gln	Leu		
305					310					315				320			
Gln	Ala	Glu	Arg	Glu	Val	Val	Glu	Ala	Ser	Ala	Ala	His	Ser	Pro	Leu		
				325					330				335				
Val	Glu	Ser	Glu	Ala	Phe	Ala	Ala	Ser	Ile	Ser	Arg	Thr	Glu	Ala	Leu		
			340					345				350					
Ala	Asn	His	Val	Gln	Gln	Gln	Leu	Gln	Arg	Asn	Asn	Ser	Leu	Arg	Asn		
			355				360					365					

12622

Arg Leu Ala Lys Ala Ile Gly Lys Gly Glu Lys Asp Gln Gln Leu Ser
 370 375 380
 Ala Ala Arg Ile Asn Glu Leu Gln Ala Arg Leu Lys Glu Met Glu Glu
 385 390 395 400
 Ala Leu Leu Leu Ala Gln Gln His Ser Glu Glu Glu Met Ala Arg His
 405 410 415
 Glu Glu Glu Ile Arg Asn Leu Glu Ala Ser His Asn Ala Gln Leu Met
 420 425 430
 Arg Val Lys Asn Gly Ser Arg Ser Pro Ala Ala Leu Ser Pro Lys Pro
 435 440 445
 Pro Ser Ser Pro Phe Gly Ala Arg Ser Pro Arg Leu Asp Lys Thr Thr
 450 455 460
 Ser Gly Lys Gly Ile Pro Leu Asp Glu Ala Ile Gln Arg Gln Thr Leu
 465 470 475 480
 Glu Lys Arg Val Lys Glu Leu Glu Lys Leu Leu Arg Asp Ala Asp Thr
 485 490 495
 Glu Met Glu Glu Val Val Gly Arg Met Asn Arg Ala Gln Ile Glu Val
 500 505 510
 Ala Glu Leu Gln Ser Asp Arg Tyr Val Phe Leu
 515 520

<210> 32257
 <211> 193
 <212> PRT
 <213> A.fumigatus

<400> 32257
 Leu Asn Ala Met Glu Leu Trp Thr Trp Ile Leu Phe Gln Ala His Gln
 1 5 10 15
 Met Pro Ile His Thr Thr Gly Leu Ser Gly Arg Tyr Gln Cys Leu Cys
 20 25 30
 Pro Tyr Leu Ser Val Val Gln Lys Met Thr Asp Leu Cys Leu Leu Phe
 35 40 45
 Gln Lys Val Leu Asn Leu Val Leu Val Ala Phe His Ala Cys Met Ala
 50 55 60
 Thr Leu Thr Ala Ala Ser Ile Thr Pro Ala Tyr Glu Asp Ile Ala Ile
 65 70 75 80
 Glu Phe Gly Lys Ser Val Gln Ser Ala Ser Tyr Leu Thr Ser Leu Gln
 85 90 95
 Ile Ala Ile Leu Gly Gly Ala Pro Leu Phe Trp Lys Pro Leu Ser Asn
 100 105 110
 Arg Phe Gly Arg Arg Pro Ile Phe Leu Leu Ser Leu Ile Ile Ser Leu
 115 120 125
 Ile Cys Asn Val Gly Cys Ala Lys Ser Pro Thr Tyr Gly Ser Met Ala
 130 135 140
 Ala Cys Arg Ala Leu Val Ala Phe Phe Ile Ser Pro Ala Ala Ala Ile
 145 150 155 160
 Gly Ser Ala Val Val Thr Glu Thr Phe Phe Lys Lys Glu Arg Ala Lys
 165 170 175
 Tyr Met Gly Val Phe Thr Thr Gly Met Gly Gly Ser Met Gly Val Ser
 180 185 190
 Ile

<210> 32258
 <211> 422

<212> PRT

<213> A.fumigatus

<400> 32258

Arg	Asn	Pro	Ser	Glu	Ala	Leu	Ser	Ser	Ser	Phe	Asp	Pro	Ser	Phe	Ser
1				5					10					15	
Val	Ser	Leu	Leu	Gly	Asn	Val	Ser	Arg	Glu	Ile	Gly	Ser	Ala	Leu	Ala
		20					25					30			
Asp	Gly	Leu	Asn	Arg	Leu	Asp	Leu	Ser	Gln	Leu	Ser	Glu	Ser	Ser	Ala
	35					40					45				
Ser	Ser	Ser	Ser	Glu	Ser	Ala	Ser	Phe	Asp	Met	Ser	Ser	Ser	Glu	Gly
	50				55					60					
Ala	Pro	Glu	Ser	Trp	Ile	Ser	Ser	Phe	Cys	Ser	Leu	Met	Gly	His	Glu
65				70					75					80	
Phe	Phe	Ala	Glu	Val	Ser	Glu	Asp	Phe	Ile	Glu	Asp	Asp	Phe	Asn	Leu
			85					90					95		
Thr	Gly	Leu	Gln	Ser	Gln	Val	Pro	Met	Tyr	Lys	Glu	Ala	Leu	Glu	Met
		100					105						110		
Ile	Leu	Asp	Val	Glu	Pro	Glu	Glu	Asp	Glu	Asp	Glu	Glu	Glu	Glu	Glu
	115					120					125				
Glu	Glu	Glu	Glu	Glu	Asp	Asp	Asp	Glu	Ile	Leu	Gly	Asp	Glu	Arg	Pro
	130				135						140				
Pro	Gly	Tyr	Arg	Arg	Ala	Gly	Asp	Arg	Arg	His	Ala	Arg	Val	Ala	Ser
145				150						155				160	
Asp	Leu	Ser	Val	Ile	Glu	Ser	Ser	Ala	Glu	Leu	Leu	Tyr	Gly	Leu	Ile
			165					170					175		
His	Gln	Arg	Tyr	Ile	Thr	Ser	Arg	Pro	Gly	Ile	Gln	Gln	Met	Leu	Glu
	180						185					190			
Lys	Tyr	Glu	Met	Gln	His	Phe	Gly	Val	Cys	Pro	Arg	Thr	Tyr	Cys	Asn
	195						200					205			
Gly	Ser	Lys	Val	Leu	Pro	Val	Gly	Cys	Ser	Asp	Thr	Pro	Gly	Gln	Glu
	210				215						220				
Thr	Val	Lys	Leu	Phe	Cys	Pro	Ser	Cys	Gln	Asp	Leu	Tyr	Thr	Pro	Pro
225				230						235				240	
Asn	Ser	Arg	Phe	His	Ser	Val	Asp	Gly	Ala	Phe	Phe	Gly	Thr	Thr	Phe
			245					250					255		
Gly	Tyr	Leu	Phe	Phe	Met	Thr	Phe	Pro	Asp	Leu	Asp	Ile	Gly	Pro	Arg
		260				265						270			
Leu	Asp	Pro	Ser	Met	Leu	Thr	Ala	Ala	Pro	Thr	Asn	Ala	Asn	Asn	Gln
	275					280						285			
Ser	Arg	Ser	Ser	Ser	Leu	Thr	Ser	Gly	Val	Asn	Arg	Ala	Thr	Pro	Asp
	290					295					300				
Leu	Pro	Pro	Pro	Pro	Pro	Asn	Gln	Pro	Thr	Glu	Ile	Asn	Gly	Val	Arg
305				310						315				320	
Thr	Ser	Asn	Phe	Cys	Pro	Gly	Leu	Gly	Pro	Gly	Arg	Ile	Tyr	Glu	Ser
		325				330						335			
Lys	Ile	Tyr	Gly	Phe	Arg	Val	Ser	Glu	Arg	Ser	Arg	Val	Gly	Pro	Arg
		340				345						350			
Met	Lys	Trp	Leu	Arg	Met	Lys	Pro	Ala	Asp	Ile	Arg	Glu	Leu	Asp	Glu
	355					360						365			
Leu	Ala	Gln	Tyr	Glu	Ala	Ile	His	Gly	Ser	Ala	Asn	Asp	Gly	Gly	Asp
	370				375						380				
Thr	Glu	Met	Asn	Ile	Glu	Ala	Gln	Asn	Ala	Ala	Ala	Ile	Ala	Ala	Arg
385				390					395					400	
Lys	Lys	Ala	Pro	Met	Arg	Arg	Arg	Arg	His	His	Pro	Asp	Gln	Met	Ser
			405					410					415		

Ile Asn Gly Ala Glu Gly
420

<210> 32259

<211> 501

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (491)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32259

Phe	Glu	Ala	Ser	Ala	Ala	Ser	Lys	Thr	Pro	Arg	Thr	Arg	Met	Pro	Arg
1			5						10					15	
Ser	Val	Pro	Pro	Asn	Ile	Ser	Pro	Leu	Pro	Gln	Lys	Asp	Asp	Ser	Ser
			20					25					30		
Leu	Ser	Ala	Ser	Glu	Tyr	Pro	Asn	Ile	Ala	Ser	Arg	Thr	Ala	Pro	Pro
			35					40					45		
Ser	Pro	Ser	Ala	Val	Arg	Arg	Thr	His	Ser	Leu	Leu	Ser	Glu	Thr	His
			50					55				60			
Thr	Gly	Tyr	Gln	Ser	Leu	Glu	Ser	Gln	Met	Glu	Ala	Gly	Glu	Thr	Thr
65					70					75				80	
Ser	Leu	Leu	Gly	Lys	Thr	Arg	Glu	Asn	His	Arg	Gly	Thr	Pro	Arg	Arg
				85					90					95	
Ser	Tyr	Thr	Ser	Ile	Ser	Ala	Ile	Pro	Thr	Pro	Asp	Asn	Tyr	Leu	Arg
			100					105					110		
His	Ser	Leu	Thr	Ser	Gly	Ser	Leu	Arg	Arg	Ser	Arg	His	His	Ser	Arg
			115					120				125			
Ala	Asn	Ser	Gln	Ser	Leu	Arg	Phe	Ser	Arg	Arg	Ser	Ser	Ile	Asp	Asp
			130				135					140			
Glu	Gln	Asp	Glu	Asp	Leu	Pro	Pro	Ser	Ala	Lys	Asp	Gly	Met	Thr	Ala
145					150					155				160	
Ser	Phe	Leu	Asp	Glu	Arg	Asn	Trp	Tyr	Asp	Gln	Phe	Thr	Ser	Thr	Asp
			165						170					175	
Trp	Val	His	Asp	Ser	Ile	Ala	Asp	Gly	Ala	Arg	Leu	Arg	Glu	Leu	Arg
			180					185					190		
Lys	Arg	Lys	Asp	Phe	Arg	Gly	Arg	Leu	Leu	Ala	Ala	Phe	Asp	Gly	Ala
			195				200					205			
Gln	Gly	Trp	Ile	Leu	Val	Ala	Leu	Ile	Gly	Cys	Ile	Thr	Ala	Ala	Ile
			210			215					220				
Ala	Tyr	Phe	Val	Asp	Val	Thr	Glu	Asp	Phe	Val	Phe	Asp	Leu	Lys	Glu
225					230					235				240	
Gly	Phe	Cys	Thr	Thr	Arg	Trp	Phe	His	Asn	Arg	Glu	Ser	Cys	Cys	Ala
			245					250						255	
Asp	Thr	Leu	Asp	Cys	Ser	Arg	Trp	Arg	Ser	Trp	Ser	Gln	Ile	Leu	Ser
			260					265					270		
Pro	Ser	Gly	Ser	Asp	Asn	Gly	Trp	Val	Asp	His	Ser	Met	Phe	Val	Leu
			275				280					285			
Trp	Val	Val	Ile	Leu	Ser	Val	Ile	Ser	Cys	Tyr	Leu	Thr	Leu	Phe	Thr
			290			295					300				
Lys	Thr	Val	Val	Pro	Ser	Ser	Val	Ser	Leu	Thr	Thr	Leu	Asp	Glu	Asn
305					310					315				320	
Leu	Gly	Ala	Gly	Thr	Ser	Arg	Gly	Thr	Asn	His	Asp	Ala	Ser	Glu	Asp
			325					330						335	

Asn Ser Pro Ala Ser Leu Ile Asn Pro Lys Ala His Tyr Pro Thr Ile
 340 345 350
 Ser Thr Arg Pro Ala Met Thr Tyr Tyr Ser Ala Ala Gly Ser Gly Val
 355 360 365
 Ala Glu Val Lys Val Ile Asn Ser Gly Phe Val Leu His Gly Tyr Leu
 370 375 380
 Gly Phe Lys Thr Leu Val Ile Lys Thr Ile Ala Leu Val Phe Ser Val
 385 390 395 400
 Ser Ser Gly Leu Ser Leu Gly Lys Glu Gly Pro Tyr Val His Ile Gly
 405 410 415
 Ala Cys Val Gly Asn Ile Ala Cys Arg Leu Phe Ser Lys Tyr Asn Asp
 420 425 430
 Asn Asp Gly Lys Arg Arg Glu Val Leu Ser Ala Ser Ala Ala Ser Gly
 435 440 445
 Val Ala Val Ala Phe Gly Ala Pro Ile Gly Gly Val Leu Phe Ser Leu
 450 455 460
 Glu Lys Ile Ser Tyr Tyr Phe Pro Pro Lys Thr Leu Phe Arg Thr Phe
 465 470 475 480
 Phe Cys Cys Ile Ala Ala Leu Ser Leu Xaa Ile Pro Gln Pro Leu
 485 490 495
 Arg His Tyr Gln Arg
 500

<210> 32260

<211> 750

<212> PRT

<213> A.fumigatus

<400> 32260

Phe Leu Ser Pro Pro Ala Ala Leu Gly Cys Tyr Asp Phe Leu Ser Val
 1 5 10 15
 Leu Leu Thr Lys Ile Pro Phe Ser Phe Phe Leu Ser Leu Leu Ile Asn
 20 25 30
 Arg Arg Ser Arg Leu Ala Leu His Asn Met Ser Ala His Thr Ala Lys
 35 40 45
 Arg Arg Lys Leu Ser Pro Arg Pro Glu Asn Gly Ser Thr Gln Lys Phe
 50 55 60
 Ser Ser Asp Gly Arg Asp Ala Glu Leu Ser Lys Ser Ile Arg Ser Asn
 65 70 75 80
 Arg Lys Val Gln Asp Asp Arg Ala Gly Glu Leu Ala Leu Ala Ser Gly
 85 90 95
 Leu Tyr Lys Ser Ser Phe Phe Lys Leu Gln Leu Asp Glu Leu Leu Ser
 100 105 110
 Ser Ser Lys Pro Asn Tyr Asp Lys Gln Val Ser Arg Val Gln Asp Thr
 115 120 125
 Leu His Arg Val Lys Glu Ala Ile Glu Gln Leu His Glu Arg Pro Pro
 130 135 140
 Met Leu Pro Cys Glu Ala Glu Arg Glu Leu Arg Thr Thr His Gly Ile
 145 150 155 160
 Val Val Pro Phe Pro Asp Pro Arg Pro Ser Arg Glu Thr Lys Tyr Ser
 165 170 175
 Val Ser Tyr Val Pro Pro Thr Asn Ile Asn Val Val Gly Ser Phe Ala
 180 185 190
 Ser Lys Thr Gly Ile Lys Gln Thr Glu Lys Tyr Thr Ile Asp Leu Ala
 195 200 205
 Val Thr Met Pro Arg Ser Leu Phe Gln Glu Lys Asp Tyr Val Asn Tyr

	660		665		670										
Ile	Ala	Asp	Ala	Phe	Ser	Ser	Leu	Glu	Lys	Ser	Ile	Gln	Asp	Met	Glu
	675		680		685										
Gly	Val	Pro	Leu	Thr	Val	Arg	His	Leu	Ala	Pro	Ala	Ser	Pro	Leu	Leu
	690		695		700										
Arg	Tyr	Ala	Ala	Leu	Arg	Val	Gln	His	Pro	Ser	Ser	Ile	Ser	Gly	Glu
	705		710		715									720	
Arg	Val	Asp	Val	Val	Leu	Gln	Phe	Glu	Ser	Ser	Ala	Arg	Trp	Pro	Asp
			725		730								735		
Asp	Leu	Val	Gly	Phe	His	Ser	Ala	Gly	Arg	Arg	Ser	Met	Tyr		
	740		745		750										

<210> 32261

<211> 273

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (239)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32261

Val	Met	Ala	Gln	Asp	His	Thr	Pro	Asp	Ala	Val	Pro	Val	Asn	Glu	Lys
1			5					10					15		
Asp	Pro	Pro	Asn	Gln	Gln	Leu	Asp	Asp	Thr	Thr	Ser	Asp	Arg	Phe	Val
		20					25					30			
Pro	Leu	Ala	Gly	Phe	Pro	Arg	Asp	Glu	Glu	Ser	Gly	Val	Asn	Asn	Gly
	35					40					45				
Val	Asp	Pro	Arg	Ser	Lys	Ser	Leu	Ser	Arg	Thr	Ala	Thr	Asn	Thr	Ser
	50				55						60				
His	Ile	Gly	Thr	Leu	Ala	Arg	Thr	Leu	Ser	Leu	Val	Arg	Thr	Arg	
	65			70				75					80		
Glu	Ser	Gly	Lys	Asp	Ile	Gly	Pro	Pro	Pro	Asp	Gly	Gly	Leu	Phe	Ala
			85					90					95		
Trp	Thr	Gln	Val	Leu	Leu	Ala	His	Phe	Val	Ile	Phe	Asn	Thr	Trp	Gly
		100						105				110			
Tyr	Ile	Asn	Gly	Phe	Gly	Val	Phe	Gln	Thr	Tyr	Tyr	Thr	Glu	His	Leu
	115					120						125			
Gly	Arg	Pro	Pro	Ser	Asp	Ile	Ser	Trp	Val	Gly	Ser	Ile	Gln	Ile	Phe
	130					135				140					
Leu	Leu	Phe	Phe	Ile	Gly	Thr	Leu	Ser	Gly	Arg	Ala	Thr	Asp	Ala	Gly
	145				150				155					160	
Phe	Phe	Lys	Val	Thr	Leu	Ala	Thr	Gly	Ala	Leu	Leu	Glu	Val	Phe	Cys
			165					170					175		
Ile	Phe	Met	Thr	Ser	Leu	Cys	Thr	Glu	Tyr	Trp	Gln	Leu	Phe	Leu	Thr
	180						185					190			
Gln	Gly	Val	Gly	Gln	Gly	Ile	Gly	Cys	Gly	Leu	Met	Phe	Cys	Pro	Thr
	195					200					205				
Val	Ala	Leu	Met	Ala	Thr	Tyr	Phe	Thr	Thr	Lys	Arg	Ala	Leu	Ala	Ile
	210				215					220					
Gly	Ile	Val	Ala	Cys	Gly	Ser	Ala	Thr	Gly	Gly	Leu	Val	Phe	Xaa	Arg
	225			230					235					240	
Gly	Arg	Arg	Ala	Pro	Ala	Ala	Thr	Ser	Trp	Ile	Arg	Leu	Asp	Asn	Ala
			245					250					255		
Arg	Ala	Gly	Leu	His	His	Pro	Gly	His	Ala	Pro	Pro	Pro	Arg	Trp	Phe

260 265 270
 Phe

 <210> 32262
 <211> 212
 <212> PRT
 <213> A.fumigatus

 <400> 32262
 Asn Asn Gly Cys Arg Pro Gly Arg Ala Ala Arg Trp Trp Asn Gly Pro
 1 5 10 15
 Pro Ser Arg Ser Cys Arg Thr Cys Phe Leu Pro Ser Gly Cys Ser Ser
 20 25 30
 Ile Ser Gly Gly Ser Thr Ser Ala Ser Ser Thr Ser Val Ala Leu Ala
 35 40 45
 Arg Asn Ile Ile Gly Val Ser Glu Thr Thr Ser Val Tyr Ile Leu Leu
 50 55 60
 Val Met Asn Gly Ile Gly Ile Leu Gly Arg Leu Met Pro Asn Thr Met
 65 70 75 80
 Ala Asp Trp Tyr Thr Gly Pro Leu Asn Met Leu Ile Pro Phe Ser Leu
 85 90 95
 Val Thr Gly Leu Val Ser Phe Cys Trp Ala Gly Val Asp Glu Ile His
 100 105 110
 Gly Leu Tyr Ala Trp Ser Ala Phe Tyr Gly Leu Ala Ala Ala Gly Ile
 115 120 125
 Gln Ser Leu Phe Pro Ala Thr Leu Thr Ser Leu Thr Thr Asp Leu Lys
 130 135 140
 Lys Ala Gly Val Arg Met Gly Met Val Leu Ser Val Val Ala Val Ala
 145 150 155 160
 Ala Leu Ile Gly Ser Pro Ile Ala Gly Ala Leu Val Gln Thr Ala Gly
 165 170 175
 Gly Gln Tyr Leu Tyr Ala Gln Met Phe Met Gly Ser Ala Ile Leu Ala
 180 185 190
 Gly Thr Leu Thr Leu Ile Ala Ala Arg Val Ala Lys Leu Gly Phe Thr
 195 200 205
 Trp His Arg Met
 210

<210> 32263
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 32263
 Pro Thr Val Tyr Leu Ser Gln Glu Asp Val Ser Val Pro Ser Leu Val
 1 5 10 15
 Leu Ser Leu Ser Ser Ser Thr Pro Pro Tyr Asp Thr Thr Leu Ser Arg
 20 25 30
 Leu Gln Gln Leu Gln Asp Ser Val Phe Tyr Leu Leu Ile Gly Gly Val
 35 40 45
 Asn Ser Phe Ser Ser Leu Gln Pro Leu His Ser Trp Ser Phe Tyr Ala
 50 55 60
 Ile Cys Ala Thr Ser Cys Ile Ser Thr
 65 70

<210> 32264
 <211> 193
 <212> PRT
 <213> A.fumigatus

<400> 32264

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Arg Ala Arg Tyr Leu Pro Ala Arg Val Val Lys Ile Pro Ala Ser Ser
1      5      10      15
Pro Leu Arg Ser Lys Ser Gln Asp Trp Thr Thr Trp Leu Asn Val Trp
20      25      30
Ala Ile Ala Ile Ala Ser Asp Ile Arg Val Gly Ala Val Ala Met Leu
35      40      45
Thr Ala Met Thr Ala Pro Leu Ala Met Ala Phe Leu Leu Tyr His Thr
50      55      60
Tyr Leu Ile Trp Ala Gly Met Thr Thr Asn Glu Ser Ala Lys Trp Ser
65      70      75      80
Asp Trp Lys Glu Asp Val Ala Asp Gly Leu Val Phe Lys Ser Thr Arg
85      90      95
Ser Glu Ile Tyr Gly Asn Gln Ser His Ser Asp Glu Asp Thr Pro Ala
100     105     110
Gln Arg Thr Trp Pro Val Ser Ser Asp Gln Ile Leu Val Ile Thr Asp
115     120     125
Gly Glu Pro Pro Lys Glu Gly Phe Gln Leu Cys Ser Arg Ser Asn Glu
130     135     140
Ile Leu Gln Lys Asp Asp Pro Gln Ala Pro Val Asp Thr Arg Trp Thr
145     150     155     160
Glu Val Asn Ser Met Arg Glu Ile Asp Asn Ile Tyr Asp Leu Gly Phe
165     170     175
Trp Asp Asn Leu Arg Glu Val Phe His Met Pro Ile Arg Arg Cys Val
180     185     190
Arg
  
```

<210> 32265
 <211> 693
 <212> PRT
 <213> A.fumigatus

<400> 32265

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Leu Met Ile Asn Ala Trp Ser Ile Cys Tyr Leu Leu Gly Asn Arg Ser
1      5      10      15
Phe Thr Lys His Ile Arg Arg Ala Thr Ser Gly Met Leu Tyr Leu Val
20      25      30
Ile Ser Asp Cys Glu Thr Leu Ser Asp Cys Phe Thr Tyr Asn Arg His
35      40      45
Asn Leu Gly Leu Ser Pro Asp Ile Trp Gln Gly Phe Thr Asp Val Leu
50      55      60
Thr Lys Ala Ile Pro Val Leu Glu Ser Gln Ser Phe Ala Trp Lys Ser
65      70      75      80
Pro Pro Ser Ala Asn Tyr Glu His Ser Ser Ser Asn Leu Ile Ala Tyr
85      90      95
Asn Tyr Phe Ser Leu Val Lys Asp Ile Glu Arg Leu Asn Asp Leu Cys
100     105     110
Thr Ile Ala Arg Asn Leu Leu Ala Thr Thr Lys Lys Ala Gln Asn Ile
115     120     125
Ala Ala Glu Lys Gly Phe Asp Gln Arg Ile Leu Ala Leu Val Asp Thr
  
```


12631

580 585 590
 Val Lys Ile Leu Thr His Ile Phe Arg Ala Lys Tyr Ser Pro Ala Ser
 595 600 605
 Val Thr Gly Ala Ala Gln Gln Ser Ala Thr Lys Asn Pro Ala Pro Leu
 610 615 620
 Ser Arg Val Asp Ile Leu Thr Val Arg Tyr Ile Phe Thr Ile Phe Arg
 625 630 635 640
 Gly Asn Ile Ile Pro Glu Thr Cys Ala Leu Ile Tyr Leu Gln Gly Gln
 645 650 655
 Ile Arg Ala Gly Arg Ala Leu Pro Glu Asp Phe Pro Leu Asn Leu Trp
 660 665 670
 Asp Met Glu Arg Asp Leu Arg Arg Cys Leu Pro Val Phe Gly Val Ala
 675 680 685
 Leu Leu Trp Leu Gln
 690

<210> 32266

<211> 114

<212> PRT

<213> A.fumigatus

<400> 32266

His Ala Asp Ser Pro Ile His Pro Lys Ser Phe Val Cys Asn Cys Lys
 1 5 10 15
 Met Ala Ala Asp Glu Val Asn Gly Ala Pro Val Leu Glu Gly His Asp
 20 25 30
 Thr Lys Ala Phe Pro Lys Ser Val Ala Ala Glu Ala Ser Thr Ser Ser
 35 40 45
 Leu Ser Ser Asp Glu Pro Arg Tyr Lys Asn Ala Asp Ser Ala Phe
 50 55 60
 Asp Thr Ser Glu Asp Pro Arg Tyr Tyr Lys Pro Ile Pro Thr Tyr Glu
 65 70 75 80
 Gly Ile His Arg Trp Asp Pro Asp Phe Glu Trp Thr Glu Glu Glu Glu
 85 90 95
 Lys Arg Leu Ile Arg Lys Val Leu Gln Thr Gln Phe Ser Leu Tyr Lys
 100 105 110
 Gln Tyr

<210> 32267

<211> 81

<212> PRT

<213> A.fumigatus

<400> 32267

Leu Val Leu Ser Arg Val Gln Ser Cys Gln Glu Tyr Leu Lys Met Ala
 1 5 10 15
 Pro Ser Leu Val Glu Asn Val Ala Leu Arg Thr Ala Pro Val Thr Lys
 20 25 30
 Leu Lys Thr Asp Ala Gly Phe Asn Lys Glu Asn Val Leu Gly Tyr Gly
 35 40 45
 Glu Ala Tyr Ser His Glu Asn Glu Val Lys Gly Thr Glu Lys Gln Pro
 50 55 60
 Pro Ala Ser Phe Pro His Tyr Leu Pro Val Trp Asp Asn Glu Thr Glu
 65 70 75 80
 Arg

<210> 32268
 <211> 63
 <212> PRT
 <213> A.fumigatus

<400> 32268
 Ala Cys Ser Leu Thr Ser Phe Ser Leu Glu Ile His Asn Asn Asn Tyr
 1 5 10 15
 His Pro Val Glu Ser Asp Asn Gly Asn Ile Arg Lys Arg Ser Met Leu
 20 25 30
 Val Glu Tyr Leu Leu Ser Ala Ser Tyr Lys Asp Trp Leu Phe Leu Phe
 35 40 45
 Asn Leu His Val Ser Ser Lys Leu Ser Arg Leu Gln Ser Ile Leu
 50 55 60

<210> 32269
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 32269
 His Thr Ser Met His Thr Asp Glu Leu Glu Gly Asn Gly Lys Gly Asp
 1 5 10 15
 Val Ile Leu Phe Glu Pro Ser Thr Ser Glu His Val Ser Thr Arg Thr
 20 25 30
 Ile Phe Asp Pro Ile Thr Ala Leu Ala Pro Ala Ser Asp Cys Arg Thr
 35 40 45
 Tyr Ala Ile Gly Tyr Val Asn Asn Leu His Trp Asn Lys Glu Asp Gly
 50 55 60
 Lys Asp Asp Gly Val Met Gly Met Tyr Ile Val Val Asp
 65 70 75

<210> 32270
 <211> 374
 <212> PRT
 <213> A.fumigatus

<400> 32270
 Thr Ala Val Val Leu Ser Ala Val Glu Asp Thr Leu Arg Asp Gln Lys
 1 5 10 15
 Ala Asp Phe Ser Ala Thr Ala Tyr Phe Ala Ala Leu Leu Ala Leu Leu
 20 25 30
 Ala Gln Ser Val Ser Ala Thr Gln Gly Ile Val Asn Lys Asp Leu Ala
 35 40 45
 Thr Ser Val Val Tyr Leu Leu Asp Ile Thr Thr Glu Tyr Val Pro Ala
 50 55 60
 Pro Ile Leu Arg Ser Lys Phe Ser Gln Ile Leu Thr Ser Leu Ala Pro
 65 70 75 80
 Ala Leu Ser Leu Pro Glu Val Asp Ala Pro Leu Leu Arg Pro Ser Ile
 85 90 95
 Gly Cys Leu Glu Ser Leu Leu Ile Ala Gln Asp Ala Ala Ser Trp Asn
 100 105 110
 Leu Pro His Thr Gln Ile Gly Pro Arg Arg Ala Ile Ala Gly Leu Leu
 115 120 125

12633

Ser Leu Ala Val Asp His Arg Pro Lys Val Arg Lys Arg Ala Gln Glu
 130 135 140
 Ala Leu Ile Lys Val Leu Lys Asn Pro Pro Pro Ser Pro Ser Leu Asp
 145 150 155 160
 His Pro Ala Ala Asp Met Cys Ala Glu Thr Gly Leu Arg Thr Leu Gly
 165 170 175
 Asp Ser Ile Ala Ala Ala Ala Lys His Lys Arg Gly Arg His Asp Ala
 180 185 190
 Asn Ser Arg Glu Asn His Asp Pro Leu Val Ile His Ser Leu Gln Leu
 195 200 205
 Val Lys Thr Ile Ala Thr Ala Ser Gly Gly Trp Pro Ser Lys Lys Ile
 210 215 220
 Glu Pro Leu Cys Glu Leu Leu Met Asn Ala Ser Arg Ser Ser Asn Glu
 225 230 235 240
 Phe Ile Thr Met Gly Ala Phe Glu Val Phe Glu Val Ile Phe Ser Ser
 245 250 255
 Met Ala Asp Glu Phe Ser Ser Ser Lys Leu Pro Arg Leu Leu Asp Ala
 260 265 270
 Ile Ser Glu Leu Lys Pro Ala Gln Asn Asp Ser Gln Leu Leu Pro Pro
 275 280 285
 Trp Ile Ala Val Leu Ser Arg Gly Tyr Asp Val Ser Ala Gln Ile Ser
 290 295 300
 Pro Glu Asp Thr Phe Glu Lys Leu Pro Ala Leu Phe Asn Met Ile Ser
 305 310 315 320
 Gly Tyr Leu Ala Ser Pro Ser Met Asn Ile Arg Val Ser Ala Ser Glu
 325 330 335
 Cys Leu Ile Ser Phe Leu Ala Asn Cys Ile Pro Lys Asn Val Ile Leu
 340 345 350
 Glu Pro Ser Val Tyr Asp Glu Lys Thr Val Glu Lys Val Pro Ser Phe
 355 360 365
 His His Ala Asn Gly Ala
 370

<210> 32271

<211> 62

<212> PRT

<213> A.fumigatus

<400> 32271

Gln Met Thr Leu Pro His Thr His Glu Ser Ser Leu Ile Asp Val Asp
 1 5 10 15
 Ala Thr Leu Gln Ser Leu Leu Glu Arg Glu Asp Thr Asp Arg Asn Met
 20 25 30
 Gln Ile Thr Ile Glu Asp Ala Gly Pro Lys Val Cys Gly Leu Val Trp
 35 40 45
 Leu Leu Ala Arg Asn Gly Ala Ser His Ile Ser Ser Asp Gly
 50 55 60

<210> 32272

<211> 93

<212> PRT

<213> A.fumigatus

<400> 32272

Gln Gly His Ala His Leu Leu Val Gln Asn Tyr Ala Gly Asp Ile Lys
 1 5 10 15

12634

Gly Lys Val Ile Phe Thr Thr Gly Val Ser Pro Gly Ser Leu Gly Ser
 20 25 30
 His Phe Ala Gln Ser Ile Ala Ala Ala Gly Pro Arg Cys Leu Asn Leu
 35 40 45
 Ala Gly Arg Asn Arg Ser Lys Ile Gln Gln Ala Ala Asp Glu Ile Lys
 50 55 60
 Ala Ser His Pro Ser Val Glu Thr His Leu Glu Ile Asp Leu Ala Ala
 65 70 75 80
 Leu Asp Ser Phe Arg Arg Ala Ala Ser Gln Ile His Ser
 85 90

<210> 32273

<211> 612

<212> PRT

<213> A.fumigatus

<400> 32273

Gly Cys Trp Thr Glu Gly Met Trp Leu Gly Leu Ala Ile Gly Pro Glu
 1 5 10 15
 Arg Cys Lys Ser Tyr Phe Glu Arg Arg Leu Ile Gly Ala Ile Gln Val
 20 25 30
 Leu Ser Val Gly Thr Ala Ala Ser Ser Gly Tyr Asn Arg Phe Asp Val
 35 40 45
 Arg Gly Thr Tyr Met Leu Ser Asn Leu Leu Gln Glu Leu Thr Ile Ala
 50 55 60
 Lys Asp Tyr Gly Arg Lys His Ile Ile Leu Asp Glu Ala Arg Leu Ser
 65 70 75 80
 Glu Asn Pro Val Ala Arg Leu Ser Arg Leu Ile Lys Asn Ser Phe Trp
 85 90 95
 Asp Ala Leu Thr Arg Arg Ile Asp Gly Ser Asn Ile Glu Val Ala Gly
 100 105 110
 Arg Asp Pro Lys Asp Trp Thr Glu Asp Pro Arg Pro Arg Ile Tyr Val
 115 120 125
 Pro His Gly Ala Pro Glu Gln Phe Glu Tyr Tyr Lys Gly Ile Ala Lys
 130 135 140
 Glu His Pro Glu Leu Arg Leu Asp Val Gln Met Leu Glu Glu Asn Ile
 145 150 155 160
 Thr Pro Asp Tyr Val Arg Asp Leu Asn Ser Lys Pro Gly Leu Leu Ala
 165 170 175
 Leu Ala Met Gln Lys Lys Tyr Asn Glu Ser Thr Gln Lys Thr Glu Cys
 180 185 190
 Val Gly Val Pro Phe Val Val Pro Gly Gly Arg Phe Asn Glu Leu Tyr
 195 200 205
 Gly Trp Asp Ser Tyr Met Glu Ser Leu Gly Leu Leu Val Ser Asn Arg
 210 215 220
 Val Asp Leu Ala Lys Ala Met Val Ile Asn Phe Cys Phe Cys Ile Lys
 225 230 235 240
 Gln Tyr Gly Lys Ile Leu Asn Ala Asn Arg Ser Tyr Tyr Leu Thr Arg
 245 250 255
 Ser Gln Pro Pro Phe Leu Thr Asp Met Ala Leu Arg Val Tyr Glu Arg
 260 265 270
 Ile Lys Asn Glu Pro Asp Ala Met Asp Phe Leu Arg Asn Ala Thr Leu
 275 280 285
 Ala Ala Ile Lys Glu Tyr Tyr Ser Val Trp Thr Ala Ala Pro Arg Tyr
 290 295 300
 Asp Glu Leu Ser Gly Leu Ser Arg Tyr Arg Pro Glu Gly Arg Gly Val

12635

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305          310          315          320
Pro Pro Glu Thr Glu Pro Thr His Phe Thr His Ile Leu Thr Pro Tyr
          325          330          335
Ala Glu Lys His Gly Met Thr Phe Lys Glu Phe Val Gln Ala Tyr Asn
          340          345          350
Glu Gly Arg Val Gln Glu Pro Glu Leu Asp Glu Tyr Phe Leu His Asp
          355          360          365
Arg Ala Val Arg Glu Ser Gly His Asp Thr Ser Tyr Arg Leu Glu Arg
          370          375          380
Val Cys Ala Asn Leu Ala Thr Val Asp Leu Asn Ser Leu Leu Tyr Lys
385          390          395          400
Tyr Glu Val Asp Ile Ala Arg Ile Ile Arg Thr Tyr Phe Lys Asp Arg
          405          410          415
Leu Glu Ile Pro Pro Glu Phe Arg Thr Glu Ser Thr Lys Asp Ile Glu
          420          425          430
Ser Glu Ser Ser Ser Val Trp Asp Arg Arg Ala Arg Arg Arg Lys Val
          435          440          445
Arg Met Asp Thr Tyr Leu Trp Asp Glu Glu Lys Gly Met Tyr Phe Asp
          450          455          460
Tyr Asp Thr Val Leu Gln Lys Arg Thr Thr Tyr Glu Ser Ala Thr Thr
465          470          475          480
Phe Trp Ala Met Trp Ala Gly Leu Ala Thr Pro His Gln Ala Ala Glu
          485          490          495
Leu Val Arg Lys Ala Leu Pro Arg Phe Glu Val Tyr Gly Gly Leu Val
          500          505          510
Ser Gly Thr Glu Glu Ser Arg Gly Ala Val Gly Leu Asp Arg Pro Asn
          515          520          525
Arg Gln Trp Asp Tyr Pro Tyr Gly Trp Ala Pro Gln Gln Met Leu Ala
530          535          540
Trp Thr Gly Leu Leu Arg Tyr Gly Tyr Gln Glu Ala Glu Arg Leu
545          550          555          560
Ala Tyr Lys Trp Leu Phe Met Ile Thr Lys Ala Phe Val Asp Phe Asn
          565          570          575
Gly Val Val Val Glu Lys Tyr Asp Val Thr Arg Pro Ile Asp Pro His
          580          585          590
Arg Val Asp Ala Glu Tyr Gly Asn Gln Gly Val Asp Phe Lys Gly Ala
          595          600          605
Pro Arg Glu Gly
610

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<210> 32274

<211> 62

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (27)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32274

```

Ala Phe Gly Lys Pro Thr Leu Ser Thr Asp Ser Tyr Leu Asn Tyr Phe
1          5          10          15
Thr Leu Thr Phe Gly Ala Thr Pro Lys Arg Xaa Lys Lys Gly Lys Ile
          20          25          30
Phe Phe Leu Lys Asn Pro Gln Asn Pro Pro Pro Pro Leu Phe Phe Trp

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12636

	35		40		45								
Gly	Pro	Pro	Leu	Leu	Thr	Pro	Pro	Ala	Pro	Asn	Leu	Gly	Phe
	50					55					60		

<210> 32275
 <211> 238
 <212> PRT
 <213> A.fumigatus

<400> 32275

Pro	Ile	Ser	Gln	Gln	Asn	Pro	Asp	Lys	Glu	Gln	Phe	Ser	Gly	Gln	Arg
1			5					10						15	
Thr	Ala	Thr	Pro	Ser	Pro	Ala	Leu	Arg	Leu	Ser	Asp	Ala	Ala	Arg	Val
			20					25					30		
Ser	Ser	Pro	Ile	Phe	Ser	Leu	Gly	Ala	Leu	Asp	Tyr	Thr	Ser	Glu	Asp
		35					40					45			
Phe	Asn	Arg	Asp	Glu	Lys	Ile	Gln	Ala	Met	Gly	Phe	Val	Gly	Glu	His
50					55						60				
Ser	Glu	Ile	Ala	Trp	Ile	Tyr	Arg	Leu	Lys	Arg	Leu	Leu	Glu	Gln	Val
65					70					75				80	
Ser	Val	Gly	Ser	Lys	Glu	Ile	Asp	Thr	Asp	Arg	Gln	Ser	Val	Ala	Ser
				85					90					95	
Ala	Ser	Phe	Phe	Leu	Asp	Asp	Ser	Asp	Ile	Thr	Val	Leu	Asp	Asp	Ile
			100					105					110		
Asp	Leu	Ser	Gln	Arg	Pro	Ala	Gln	Thr	Val	Ala	Asp	Gln	Leu	Val	Asp
		115					120					125			
Glu	Tyr	Phe	Gln	Val	Val	His	Pro	Ser	Phe	Pro	Ile	Ile	Gly	Lys	Leu
130						135					140				
Val	Phe	Leu	Arg	Gln	Tyr	Arg	Ser	Phe	Tyr	Ser	Ser	Pro	His	Val	Arg
145					150					155					160
Pro	Gly	Lys	Arg	Trp	Leu	Ala	Val	Leu	Asn	Leu	Val	Phe	Ala	Ile	Gly
			165						170					175	
Ala	Arg	Cys	Ser	Arg	Tyr	Ser	Gln	Gly	Asp	Asn	Gly	Gly	Val	Thr	Asp
			180					185					190		
Asp	Glu	Thr	Leu	Tyr	Phe	Ser	Arg	Ala	Trp	Arg	Leu	Ser	Met	Ser	Asp
		195					200					205			
Ile	Ala	Leu	Leu	Asp	His	Pro	Asn	Leu	Gln	Gln	Val	Gln	Val	Glu	Gly
210					215						220				
Leu	Thr	Ser	Phe	Tyr	Leu	Leu	Ser	Val	Gly	Gln	Val	Asn	Arg		
225					230					235					

<210> 32276
 <211> 100
 <212> PRT
 <213> A.fumigatus

<400> 32276

Val	Val	Phe	Gly	Ile	Arg	Trp	Cys	Asp	Gly	Ser	Leu	Arg	Leu	Ser	Tyr
1				5					10					15	
Ala	Leu	Asn	Arg	Leu	Glu	Gly	Gln	Cys	Asn	His	Arg	Arg	Gly	Lys	Phe
			20					25					30		
Phe	Ala	Val	Gly	Ala	Thr	Ala	Ser	His	Ile	Ala	Leu	Ser	Lys	Asn	Val
		35					40					45			
Phe	Glu	Ala	Leu	Phe	Ser	Ser	Val	Arg	Val	Ile	Thr	Tyr	Asn	Tyr	His
50					55						60				
Asp	Thr	Trp	Leu	Asp	Ala	Ala	Glu	Thr	Phe	Thr	Thr	Val	Met	Trp	Leu

12637

65 70 75 80
 Ile Ala Gly Pro Asn Cys Ala Gln Asn Ala Arg Leu Arg Ile Pro Ile
 85 90 95
 Asp His Cys Gln
 100

<210> 32277

<211> 384

<212> PRT

<213> A.fumigatus

<400> 32277

Thr Gly Lys Cys Ser Met Gln Arg Arg Gln Phe Leu Val Ser Cys Leu
 1 5 10 15
 Thr Gly Gly Val Leu Thr Ile Pro Arg Ser Trp Arg Ile Cys Gly Ile
 20 25 30
 Ser Leu Arg Ser Ala Val Thr Met Gly Leu Asn Leu Arg Ser Glu Ser
 35 40 45
 Asn Thr Ile Ala His Val Ser Lys Glu Thr Arg Tyr Arg Val Trp Trp
 50 55 60
 Ser Leu Phe Met Leu Asp Ile Ser Leu Cys Val Met Thr Gly Arg Pro
 65 70 75 80
 Ser Ser Ser Ser Asp Glu Phe Cys Thr Thr Pro Pro Pro Leu Pro Phe
 85 90 95
 Lys Glu Glu Asp Phe Ser Asp Asp Arg Val Val Gln Leu Ile Ala Asp
 100 105 110
 His Glu Ala Arg Gly Leu Phe Thr Glu Ala Leu Gly Lys Thr Thr Ala
 115 120 125
 Thr Ala Glu Thr Ala Leu Thr Pro Asp Leu Ser Asp His Pro Ser Asn
 130 135 140
 Met Asn Arg Asp Cys Glu Gln Val Ala Ser Ser Ala Ile Glu Ser Leu
 145 150 155 160
 Thr Pro Asn Ile Ser Leu Tyr Phe Leu Tyr Asn Val Glu Leu Asp Leu
 165 170 175
 Ile Leu Arg Glu Ala Val Val Thr Leu Tyr Ala Pro Gly Ala Ala Arg
 180 185 190
 Lys Ser Trp His Glu Ile Glu Leu Ser Ile Val Thr Leu Asn Ser Lys
 195 200 205
 Ala Asp Val Trp Leu Ser Arg Leu Pro Ala Ala Phe His Phe Glu Thr
 210 215 220
 Gly Ala Arg Val Phe Glu Arg Gln Arg Leu Asn Leu Ala Phe Cys Phe
 225 230 235 240
 Tyr Ser Thr Lys Ile Ile Ile Ala Gln Pro Cys Phe Ser Arg Leu Thr
 245 250 255
 Arg Gln Ala Pro Gly Ser Glu Pro Pro Gly Val Ala Cys Glu Thr Met
 260 265 270
 Ala Thr Met Cys Val Asp Phe Ala Ala Gln Met Leu Asn Leu Leu Pro
 275 280 285
 Thr Ile Pro Gln Ala Ser Trp Val Tyr Arg Val Ser Pro Trp Trp Cys
 290 295 300
 Phe Leu His Tyr Leu Met Gln Ser Thr Thr Val Leu Leu Thr Gln Ile
 305 310 315 320
 Leu Leu Leu Ser Glu Ala Gly Thr Val Lys Tyr Asn Arg Val Leu Glu
 325 330 335
 Gln Leu Ser Lys Ala Thr Arg Trp Leu Ser Glu Leu Ser Thr Asn Asp
 340 345 350

12638

Pro Ser Ser Ala Arg Ala Trp Leu Phe Cys Arg Asp Leu Ile Ser Gln
 355 360 365
 His Ala Pro Glu Leu Asp Leu Gly Ala Ser Ile Glu Asn His Arg Asn
 370 375 380

<210> 32278

<211> 147

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (17)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32278

Phe Val Pro Glu Leu Leu Tyr Thr Asn Leu Trp Arg His Pro Gln Lys
 1 5 10 15
 Xaa Lys Lys Gly Glu Asn Phe Phe Phe Lys Lys Pro Pro Lys Pro Pro
 20 25 30
 Pro Pro Pro Phe Phe Leu Gly Pro Pro Pro Phe Asn Pro Pro Arg Pro
 35 40 45
 Lys Phe Gly Val Leu Lys Asn Phe Gly Pro Gln Lys Arg Pro Arg Gly
 50 55 60
 Gly Phe Ser Pro Gly Lys Phe Gly Ala Pro Pro Gly Gly Leu Lys Phe
 65 70 75 80
 Phe Pro Lys Lys Phe Gly Gly Phe Phe Leu Gly Gly Gly Gly Gly Gly
 85 90 95
 Arg Lys Lys Lys Gly Lys Lys Gly Ala Pro Gly Phe Phe Pro Gln Lys
 100 105 110
 Tyr Phe Ser Pro Lys Asn Phe Phe Lys Asn Pro Pro Lys Lys Gly Gly
 115 120 125
 Ala Leu Pro Pro Lys Lys Pro Pro Gln Lys Phe Phe Phe Leu Lys
 130 135 140
 Lys Tyr Phe
 145

<210> 32279

<211> 164

<212> PRT

<213> A.fumigatus

<400> 32279

Leu Leu Val Phe Trp Arg Ile Arg Lys Met Met Leu Leu Leu Met Leu
 1 5 10 15
 Leu Leu Phe Thr Leu Cys Asp Ile Ala Thr Ala Gly Ser Val Ser Val
 20 25 30
 Glu Asp Leu Thr Leu Asn Leu Asp Leu Asp Arg Arg Gly Ile Ala Leu
 35 40 45
 Ser Thr Glu Pro Pro Val Asp Gln Ser Leu Leu Ala Ile Gln Ile Gly
 50 55 60
 Gly Ile Val Gly Ala Tyr Val Ile Phe Val Ala Ile Leu Leu Thr Leu
 65 70 75 80
 Leu Leu Phe Val Gly Arg Arg Leu Arg Arg Ala Val Gln Ala Ser Asn
 85 90 95
 Tyr Thr Leu Gln Val Glu Met Met Lys Pro Ser Lys Gln Ala Val Ser

[illegible]

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<210> 32280
<211> 63
<212> PRT
<213> A.fumigatus
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<210> 32281
<211> 91
<212> PRT
<213> A.fumigatus
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<210> 32282
<211> 204
<212> PRT
<213> A.fumigatus
```

<400> 32282
Arg Met Trp Phe Met Lys Leu Val Ile Ser Ser Phe Leu Gly Val Ser

12640

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1           5           10           15
Tyr Leu Thr Thr Asp Ser Pro Gly Phe Phe Tyr Val Thr Asn Phe Gly
      20           25           30
Leu Thr Gln Glu Gln Val Asp Arg Gln Phe Ala Ile Ala Lys Glu Phe
      35           40           45
Phe Ser Leu Pro Glu Glu Glu Arg Arg Ser Phe Arg Ala Pro Leu Glu
      50           55           60
Glu Gly Ile Tyr Asn Gly Tyr Arg Pro Leu Gly Ser Ile Glu Ile Leu
      65           70           75           80
Pro Gly Leu Arg Asp Asn Ile Glu Phe Tyr Asn Ile Met Lys Phe Leu
      85           90           95
Pro Gln Tyr Glu Arg Thr His Pro Asp Val Ile Arg Arg His Trp Ala
      100           105           110
Glu Ile Glu Lys Phe His Arg His Val His Glu His Ile Ala Tyr Arg
      115           120           125
Leu Phe Arg Leu Leu Ala Ile Val Leu Glu Ile Pro Glu Asp Glu Leu
      130           135           140
Glu Lys Gly His Leu Tyr Asp Ser Asn Cys Asp Ser Gly Leu Arg Asn
      145           150           155           160
Met Cys Leu Arg Ala Arg Ser Ala Glu Glu Asn Glu Lys Tyr Xaa Ser
      165           170           175
Leu Tyr Ser Arg Ser His Thr Asp Asn Gly Thr Ile Thr Phe Val Phe
      180           185           190
Gln Xaa Pro Val Ala Gly Val Thr Gly Gln Lys Thr
      195           200

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<210> 32283

<211> 101

<212> PRT

<213> A.fumigatus

<400> 32283

```

Val Met Lys His Leu His Pro Thr Ser Val His Thr Cys Gly Leu Tyr
1           5           10           15
Phe Tyr Pro Leu Ser Val Arg Pro Ile Thr Ser Cys Leu Asp Tyr Arg
      20           25           30
Phe Arg Phe Gln Lys Glu Tyr Ser Gly Leu Thr Ser Thr Arg Cys Glu
      35           40           45
Thr Tyr Phe Ile Ser Ala Pro Glu Leu Asp Val Ser Gly Glu Ile Leu
      50           55           60
Leu Asp Thr His Ala Ser Pro Arg Phe Val Ser Cys Arg Trp Arg Thr
      65           70           75           80
Glu Ser Leu Trp Phe Ala Asp Phe Ala Asn Lys Phe Val Ile Glu Asp
      85           90           95
Asn Phe Arg Glu Asn
      100

```

<210> 32284

<211> 84

<212> PRT

<213> A.fumigatus

<400> 32284

```

Thr His Ala Leu Ser Phe Gly Pro Ala Leu Met Ser Phe Leu Asp Ile
1           5           10           15
Ser Ile Gly Asn Leu Leu Ser Lys Arg Lys Thr Tyr Leu Arg Asn Arg

```

12641

```

                20                25                30
Thr Arg Leu Thr Ser Asn Asn Arg Gly Glu Ser Pro Met Leu Cys Arg
      35                40                45
Met Ile Ser Ala Val Lys Thr Thr Leu Leu Gly Leu Glu Thr Ala Ile
      50                55                60
Ala Ile Ala Glu Pro Ala Ile Arg Thr Asp Gln Pro Arg Leu Ala Leu
65                70                75                80
Ser Glu Arg Pro

```

<210> 32285

<211> 93

<212> PRT

<213> A.fumigatus

<400> 32285

```

Ser Ile Asn Leu Asn Ser Glu Ser Ile Thr Met Lys Ala Asn Thr Met
1                5                10                15
Gln Ser Leu Ser Val Gly His Thr Arg Ile Ala Ile Ala Glu Val Thr
      20                25                30
Ile Phe Ser Phe Ile Gln Leu Val Gln Phe Ile Thr Arg Phe Met Gln
      35                40                45
Glu Trp Gln Tyr Trp His His Arg Arg Glu Arg Asn Val Arg Arg Cys
      50                55                60
Val Leu Tyr Ser Trp Phe Gly Met Leu Gly Ile Leu Ala Gln Arg Lys
65                70                75                80
Cys Glu Phe Thr Cys Pro Leu Trp Ser Leu Gly Gln Gly
      85                90

```

<210> 32286

<211> 220

<212> PRT

<213> A.fumigatus

<400> 32286

```

Ser His Gly Leu Thr Asn Asp Leu Leu Ala Gly Trp Leu Ile Pro Phe
1                5                10                15
Pro Ala Asp Leu Leu Asn Ala His Ala Gln Tyr Val Glu Leu Tyr Ile
      20                25                30
Asn Gln Leu Ala Tyr Ser Val Ser Gln Asn Ser Leu Pro Leu Asn Leu
      35                40                45
Thr Gly Gln Leu Gly Phe Glu Arg Leu Gln Cys Leu Trp Gln Ser Val
      50                55                60
Glu Asn Ile Lys Ser Trp Leu Gly His Phe Tyr Gln Ile Pro Cys Ser
65                70                75                80
Asp Leu Val Gly Gln Pro Phe His Phe Trp Ser Gln Met Ile Leu Thr
      85                90                95
Val Thr Leu Leu Lys Tyr Leu Ser Thr Leu His Asp Pro Glu Trp Asp
      100                105                110
Cys Gln Ala Val Arg Gly Thr Val His Leu Ile Thr Thr Met Asp Ser
      115                120                125
Met Val Gln Lys Leu Asp Leu Ser Ser Lys Val Pro Glu Tyr Gln Cys
      130                135                140
Asp Asp His Leu Leu Lys Phe Leu Ser Lys Leu Leu Thr Arg Cys Arg
145                150                155                160
Arg Trp Ala Glu Ala Arg Trp His Asp Glu Glu Thr Trp Pro Gly Arg

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[illegible]

```
<210> 32287
<211> 524
<212> PRT
<213> A.fumigatus
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1 1 1 1 1

12643

```

Leu Asp Lys Tyr Val Glu Lys Leu Ile Ala Glu Gly Thr Phe Thr Lys
      340                      345                      350
Glu Asp Ile Asp Glu His Lys Lys Trp Val Trp Gly Met Leu Asn Asp
      355                      360                      365
Ser Phe Asp Arg Ser Lys Asp Tyr Gln Pro Thr Gly Lys Glu Trp Leu
      370                      375                      380
Thr Ser Ala Trp Asn Gly Phe Lys Thr Pro Lys Glu Leu Ala Thr Glu
      385                      390                      395                      400
Val Leu Pro His Leu Pro Thr Ala Val Asp Ala Ser Leu Leu Ser His
      405                      410                      415
Ile Ala Asp Lys Ile Ser Gly Ala Pro Glu Gly Phe Thr Val His Arg
      420                      425                      430
Asn Leu Lys Arg Ile Leu Ala Asn Arg Lys Lys Ala Val Asp Glu Gly
      435                      440                      445
Lys Asn Ile Asp Trp Ala Thr Ala Glu Ala Leu Ala Phe Gly Ser Leu
      450                      455                      460
Val Lys Glu Gly Tyr His Val Arg Val Ser Gly Gln Asp Val Glu Arg
      465                      470                      475                      480
Gly Thr Phe Ser Gln Arg His Ala Val Leu His Asp Gln Glu Asn Glu
      485                      490                      495
Ala Thr Tyr Thr Pro Leu Lys His Ile Ala Glu Asp Gln Gly Ser Phe
      500                      505                      510
Val Ile Ser Asn Ser Ser Leu Ser Glu Phe Gly Ala
      515                      520

```

<210> 32288

<211> 187

<212> PRT

<213> A.fumigatus

<400> 32288

```

Leu Phe Ile Asn Ser Ile Ala Ile Ala Leu Val Ile Phe Phe Ser Lys
1                      5                      10                      15
Ser Leu Leu Arg His Pro Ile Ala Arg Ser Asp Ile Glu Glu Phe Thr
      20                      25                      30
Gly Asp Ser His Phe Arg Trp Ile Ile Pro Asp Pro Ala His Gly Ser
      35                      40                      45
Thr Ile Asp Glu Pro Glu Lys Ile Glu Arg Val Ile Leu Cys Ser Gly
      50                      55                      60
Gln Val Tyr Ala Thr Leu Val Lys His Arg Glu Ala Asn Gly Ile Arg
      65                      70                      75                      80
Asn Thr Ala Ile Thr Arg Val Glu Gln Leu His Pro Phe Pro Trp Ala
      85                      90                      95
Gln Leu Lys Glu Asn Leu Asp Ser Tyr Pro Asn Ala Lys Asp Ile Val
      100                      105                      110
Trp Ala Gln Glu Glu Pro Leu Asn Ala Gly Ala Trp Ser Tyr Thr Gln
      115                      120                      125
Pro Arg Ile Glu Thr Leu Leu Asn Glu Thr Glu His His Asn Arg Arg
      130                      135                      140
His Val Leu Tyr Ala Gly Arg Pro Pro Ser Ala Ser Val Ala Thr Gly
      145                      150                      155                      160
Leu Lys Ser Val His Ala Lys Glu Glu Gln Asp Phe Leu Gln Glu Ala
      165                      170                      175
Phe Thr Val His Gln His Arg Leu Lys Gly Glu
      180                      185

```

<210> 32289
 <211> 184
 <212> PRT
 <213> A.fumigatus

<400> 32289
 Ser Thr Ser Leu Arg Ile Arg Ala Ala Ser Ser Ser Pro Thr Leu Pro
 1 5 10 15
 Leu Ala Asn Ser Glu Arg Lys Leu Thr Ser Thr Leu Thr Ser Leu Pro
 20 25 30
 Leu Leu Ser Gln Ala Asn Leu Phe Ser Ser Leu Gly Phe Glu Tyr Gly
 35 40 45
 Tyr Ser Leu Thr Ser Pro Asn Ala Leu Val Met Trp Glu Ala Gln Phe
 50 55 60
 Gly Asp Phe Ala Asn Asn Ala Gln Cys Ile Ile Asp Gln Phe Ile Ala
 65 70 75 80
 Ser Gly Glu Ser Lys Trp Leu Gln Arg Ser Gly Leu Val Val Ser Leu
 85 90 95
 Pro His Gly Tyr Asp Gly Gln Gly Pro Glu His Ser Ser Gly Arg Met
 100 105 110
 Glu Arg Trp Leu Gln Leu Cys Asn Glu Glu Pro Arg Gln Phe Pro Thr
 115 120 125
 Gln Asp Lys Leu Asp Arg Gln His Gln Asp Cys Asn Met Gln Ile Ala
 130 135 140
 Tyr Met Thr Ser Pro Ala Asn Leu Phe His Ile Leu Arg Arg Gln Ile
 145 150 155 160
 His Arg Gln Phe Arg Lys Arg Lys Ser Trp Phe Pro Ala Ser Leu Asn
 165 170 175
 Asp Ser Ser Leu Thr Gln Leu Pro
 180

<210> 32290
 <211> 137
 <212> PRT
 <213> A.fumigatus

<400> 32290
 Arg Val Ile Gln Gly Gly Arg Glu Pro Arg Leu Thr Leu Ala Glu Leu
 1 5 10 15
 Ala Val Asp Leu Ala Thr Gln Asp Val Glu Lys Ile Gly Arg Arg Gly
 20 25 30
 His Val Gly Asn Leu His Ile Ala Val Leu Val Leu Thr Val Gln Leu
 35 40 45
 Val Leu Ser Gly Glu Leu Ala Arg Phe Leu Val Ala Lys Leu Gln Pro
 50 55 60
 Thr Leu His Ser Thr Arg Arg Val Leu Arg Thr Leu Ala Ile Ile Thr
 65 70 75 80
 Val Arg Gln Gly Asp Asn Glu Thr Gly Ala Leu Gln Pro Leu Gly Leu
 85 90 95
 Ser Arg Gly Asp Glu Leu Val Asn Asn Ala Leu Ser Ile Ile Gly Glu
 100 105 110
 Val Thr Glu Leu Gly Leu Pro His Asp Gln Gly Ile Arg Gly Gly Gln
 115 120 125
 Arg Val Thr Val Phe Lys Thr Lys Ala
 130 135

<210> 32291
 <211> 202
 <212> PRT
 <213> A.fumigatus

<400> 32291

```

Leu Leu Gln Ile Lys Ala Pro Lys Thr Ile Ile Gln Gln Trp Leu Gln
1          5          10          15
Arg Pro His Leu Leu Ala Leu Gln Thr Met Leu Val Asp Ser Glu Cys
          20          25          30
Phe Leu Lys Glu Val Leu Phe Leu Leu Gly Val Asp Gly Leu Glu Thr
          35          40          45
Ser Arg Asp Gly Gly Ala Trp Gly Pro Thr Ser Val Glu Asp Val Ala
          50          55          60
Thr Val Val Val Leu Ser Leu Val Gln Gln Gly Leu Asn Thr Gly Leu
65          70          75          80
Gly Val Thr Pro Ser Thr Gly Val Gln Arg Leu Phe Leu Ser Pro Asp
          85          90          95
Asn Val Leu Gly Val Arg Val Ala Val Gln Val Leu Leu Gln Leu Ser
          100          105          110
Pro Arg Glu Gly Val Gln Leu Leu Asn Thr Gly Asp Gly Ser Val Ala
          115          120          125
Asp Thr Ile Gly Phe Ala Val Leu Asp Gln Gly Ser Ile Asp Leu Ala
          130          135          140
Thr Ala Gln Asn Asp Ala Leu Asp Leu Leu Gly Leu Val Asn Gly Ala
145          150          155          160
Thr Val Gly Arg Val Arg Asp Asp Pro Pro Glu Val Arg Val Thr Gly
          165          170          175
Glu Phe Leu Asp Ile Gly Ala Ser Asn Arg Met Thr Glu Glu Gly Leu
          180          185          190
Gly Glu Glu Asp His Glu Gly Tyr Gly Asn
          195          200

```

<210> 32292
 <211> 535
 <212> PRT
 <213> A.fumigatus

<400> 32292

```

Glu Ser Lys Gly Lys Leu Val Asn Val Glu Val Asn Leu Arg Ser Glu
1          5          10          15
Phe Ala Lys Gly Arg Val Gly Asp Asp Glu Ala Ala Leu Ile Leu Ser
          20          25          30
Asp Val Leu Gln Gly Gly Ile Arg Ser Leu Val Leu Leu Val Val Gln
          35          40          45
Asn Gly Val Thr Leu Gly Glu Gly Thr Thr Phe Asn Val Leu Thr Gly
          50          55          60
Asn Thr Asp Met Val Ala Leu Phe His Gln Arg Thr Lys Gly Glu Gly
65          70          75          80
Leu Arg Gly Gly Pro Val Asp Val Leu Thr Leu Ile Asn Gly Leu Leu
          85          90          95
Ala Val Gly Gln Asn Thr Leu Glu Val Ala Val Asp Gly Glu Ala Leu
          100          105          110
Gly Gly Ala Ala Asn Leu Val Gly Asn Val Ala Gln Gln Arg Ser Ile
          115          120          125
Asn Ser Gly Arg Gln Met Arg Gln Asn Leu Gly Gly Gln Leu Leu Arg

```

130		135		140
Ser Leu Glu Ala Val	Pro Ser Arg Gly Gln	Pro Phe Leu Ala Gly Gly		
145	150	155	160	
Leu Val Ile Leu Ala Ala	Val Glu Ala Val Val	Glu His Thr Pro Asn		
	165	170	175	
Pro Leu Phe Val Leu Val	Asn Val Leu Phe Gly	Glu Gly Ala Leu Ser		
	180	185	190	
Asn Gln Leu Leu Asp Ile	Leu Val Lys Leu Ser	Leu Leu Leu Gly Asp		
	195	200	205	
Ala Leu Val His Gln Gly	Leu Ser Glu Arg Gly	Leu Val Gly Phe Val		
	210	215	220	
Val Thr Leu Leu Thr Val	Ala Asp Asp Val Asn	Asp Asp Val Ala Leu		
	225	230	235	240
Glu Leu Gly Thr Pro Val	Gly Ser Asn Leu Thr	Asn Val Val His Gly		
	245	250	255	
Leu Asp Ile Ile Ser Val	His Val Glu His Arg	Gly Val Asp Gly Leu		
	260	265	270	
Gly Asp Ile Arg Ala Val	Arg Gly Gly Thr Arg	Val Thr Gly Val Gly		
	275	280	285	
Ser Glu Thr Asn Leu Val	Val His Asp Asp Val	Asp Ser Thr Thr Gly		
	290	295	300	
Arg Val Gly Gly Glu Arg	Val Glu Ala His Gly	Leu Val Asp Asp Thr		
	305	310	315	320
Leu Ala Gly Glu Gly Ser	Ile Thr Val Gln Gln	Asn Thr His Gly Ala		
	325	330	335	
Val Glu Val Leu Leu Ile	Ile Val Val Val Gln	Asn Arg Ala Arg Leu		
	340	345	350	
Ala Lys Asn Asn Gly Val	Leu Gly Phe Gln Met	Gly Gly Val Gly Asp		
	355	360	365	
Gln Arg Glu Leu His Thr	Leu Thr Arg Gly Arg	Gly Thr Phe Glu Val		
	370	375	380	
His Thr Gln Val Val Leu	Asp Ile Thr Glu Pro	Phe Ile Arg Arg Leu		
	385	390	395	400
Gly Gly Ser Arg Glu Phe	Thr Glu Asp Gly Leu	Val Gly Leu Thr Asn		
	405	410	415	
Asn Val Gly Gln Tyr Ile	Glu Thr Thr Thr Val	Arg His Thr Asn Asp		
	420	425	430	
Asn Val Leu Asp Ala Val	Leu Asp Ala Ala Val	Asn Gln Arg Leu His		
	435	440	445	
Thr Arg His Lys Gly Leu	Ala Thr Leu Gln Thr	Glu Thr Leu Val Ile		
	450	455	460	
Gly Glu Leu Gly Gly Gln	Glu Gly Leu Glu Ala	Val Thr Pro Asp Gln		
	465	470	475	480
Thr Val Lys Asp Thr Ala	Leu Val Val Asn Arg	Val Leu Val Gly Leu		
	485	490	495	
Arg Asn Phe Glu Ala Ile	Thr Asp Pro Val Ala	Gly Leu Thr Ile Arg		
	500	505	510	
Asn Val Asn Val Leu His	Thr Ile Gly Ala Thr	Ile Ser Leu His His		
	515	520	525	
Gly Ala Gly Arg Ile Arg	Ala			
	530	535		

<210> 32293

<211> 375

<212> PRT

<213> A.fumigatus

<400> 32293

Leu Val Asp Thr Phe Ser Val Gly His Arg Arg Asn Ala Glu His Asp
 1 5 10 15
 Val Lys Pro Lys Glu Gln Val Ile Val Trp Val Asp His Ala Gly His
 20 25 30
 Thr Ile Gly Ile Glu His Lys His Gln Thr Pro Thr Ala Thr Phe Lys
 35 40 45
 Ser Val Cys Leu Phe Ala Thr Asp Gln Cys Ile Thr Arg Leu Asn Ile
 50 55 60
 Lys Leu Thr Pro Arg Gln Ser Pro Thr Glu Leu Pro Leu Leu Pro Asn
 65 70 75 80
 Thr Asp Asn Ile Ile Pro Asp Asn Pro Leu Pro Lys Leu Thr Val Glu
 85 90 95
 Val Pro Glu Leu Asn Thr Asn Arg Gly Pro Arg Phe Gly Ile Thr Tyr
 100 105 110
 Ser Pro Tyr Thr Ser His Gly Thr Cys Lys Thr Phe Asp Gln Ile Asn
 115 120 125
 Gln Asp Ile Glu His Leu Arg His His Ala Phe Ile Arg Ile Tyr Gly
 130 135 140
 Ile Asp Cys Asp Gln Thr Lys Leu Val Thr Gln Ala Ala Arg Gln His
 145 150 155 160
 Gly Leu Lys Val Phe Ala Gly Val Phe Asp Leu His Asn Phe Pro Asp
 165 170 175
 Ser Leu His Tyr Ile Arg Asp Ala Ala Thr Ala Ala Gly Gly Asp Trp
 180 185 190
 Ser Ile Phe His Thr Ile Ala Ile Gly Asn Glu Leu Val Asn Lys Gly
 195 200 205
 Gln Asn Lys Pro Ala Asp Val Val Asn Ala Val Asn Thr Ala Arg Gly
 210 215 220
 Ile Leu Arg Gly Ala Gly Tyr Gln Gly Pro Val Val Thr Val Asp Thr
 225 230 235 240
 Phe Ser Val Met Leu Gln His Pro Glu Leu Cys Ala Ala Ser Asp Tyr
 245 250 255
 Cys Ala Ala Asn Cys His Ala Phe Phe Asp Asn Asn Gln Leu Pro Glu
 260 265 270
 Thr Ala Gly Glu Tyr Ala Leu Asp Lys Ala Arg Arg Ile Ser Ala Ala
 275 280 285
 Ala Gly Gly Lys Lys Thr Val Ile Thr Glu Ser Gly Trp Pro His Ala
 290 295 300
 Gly Gln Pro Asn Gly Arg Ala Val Pro Ser Pro Glu Asn Gln Lys Lys
 305 310 315 320
 Ala Ile Ala Ser Leu Arg Lys Ala Phe Ala Asp Asp Pro Asp Leu Val
 325 330 335
 Leu Phe Thr Ala Phe Asp Asp Leu Trp Lys Ser Asp Asn Gln Trp Thr
 340 345 350
 Phe Gly Ala Glu Arg Phe Trp Gly Ile Gln Asp Met Gly Arg Glu Arg
 355 360 365
 Glu Arg Glu Gln Asp Arg Glu
 370 375

<210> 32294

<211> 82

<212> PRT

<213> A.fumigatus

<400> 32294

Gln His Arg Ile Gln Gln Tyr Gln Gln Asp Ile Phe Asn Glu Leu Arg
 1 5 10 15
 Gly Glu Asp Glu Leu Val Ile Leu Ala Arg Gly Leu Gly Leu Leu Arg
 20 25 30
 Leu Val Thr Asn Leu Leu His Phe Tyr Asp Ala Ala Gly Asn Asn Leu
 35 40 45
 Val Leu Val Val Gly Ala Asp Asp Arg Glu Asn Glu Trp Ile Gly Glu
 50 55 60
 Gly Thr Glu Tyr Ala Asp Phe Asn Thr Leu Gln Val Ser Gln Lys Leu
 65 70 75 80
 Arg Asp

<210> 32295

<211> 159

<212> PRT

<213> A.fumigatus

<400> 32295

Ala Thr Ser Ala Met Ser His Ser Ser Leu Val Leu Ile His His Tyr
 1 5 10 15
 Gln Ser Met Ala Val Thr Leu Thr His Asp Lys Ser Gln Glu Asp Pro
 20 25 30
 Gln Glu Gln Phe Leu Arg Thr Val Asn Thr Arg Ile Ala Gly Gly Gly
 35 40 45
 Arg Leu Ala Ala Thr Ala Ser Pro Pro Arg Val Val Val Asp Val Arg
 50 55 60
 Glu Phe Arg Ser Ala Leu Pro Ser Leu Leu His Gly Asn Asn Met Ile
 65 70 75 80
 Ile Val Pro Cys Gln Leu Thr Val Gly Asp Tyr Ile Leu Thr Pro Asp
 85 90 95
 Ile Cys Val Glu Arg Lys Ser Val Arg Asp Leu Ile Thr Ser Leu Arg
 100 105 110
 Asn Gly Arg Leu Tyr Asn Gln Ala Glu Thr Met Leu Gln His Tyr Lys
 115 120 125
 Asn Pro Leu Leu Leu Ile Glu Phe Asp Gln Asn Lys Ser Phe Thr Cys
 130 135 140
 Asp Gly Leu Gln His Val Asp Gly Arg Ile Arg Arg Gly Leu Ser
 145 150 155

<210> 32296

<211> 165

<212> PRT

<213> A.fumigatus

<400> 32296

Arg His Pro Arg Ile Val Ala Thr Ser Thr Glu Ala Phe Ile Ile Arg
 1 5 10 15
 Ile Tyr Arg Gln Ile Asn Lys Ser Gly Phe Leu Lys Ala Phe Ser Asp
 20 25 30
 Ser Pro Glu Pro Phe Thr Thr Gly Phe Ala Pro Leu Ala Asn Tyr Met
 35 40 45
 Arg Asn Leu Phe Leu Arg Lys Thr Ser Leu Trp Pro Arg Phe His Val
 50 55 60
 Thr Val Ala Glu Ser Leu Glu Gly His Arg Lys Ala Glu Val Ile Glu

12649

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65              70              75              80
Leu Glu Val Pro Met Thr Asp Lys Met Arg Glu Ile Gln Asn Ala Val
              85              90              95
Leu Glu Cys Val Glu Ile Ser Ile Ala Glu Leu Lys Lys Ala Asn Thr
              100              105              110
Gly Leu Asp Met Ala Asp Trp Thr Leu Asp Ser Ala Leu His Arg Ser
              115              120              125
Phe Asp Ile Ala Ile Arg Arg Gln Leu Asp Pro Met Trp His Arg Val
              130              135              140
Ser Phe Arg Thr Arg Gln Ile Val Ser Asp Leu Ser Asp Leu Arg Ala
145              150              155              160
Ile Leu Gln Tyr Val
              165

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<210> 32297

<211> 428

<212> PRT

<213> A.fumigatus

<400> 32297

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Val Leu Gly Pro Gly Arg Leu Ser Ala Thr Cys Leu Ile Phe Ala Arg
1              5              10              15
Phe Phe Ser Thr Phe Asp Cys Pro Lys His Ala Leu Ser Gly Val Arg
              20              25              30
Ile Gly Thr His Tyr Trp Tyr Ser Ala Leu Leu Thr Tyr Asp Ala Val
              35              40              45
Ser Phe Val Lys Tyr Leu Asp Thr Ile Val Thr Ala His Ser Pro Pro
50              55              60
Pro Gly Ser Thr Arg His Asn Tyr Ser Pro Trp Leu Phe Leu Asp Ala
65              70              75              80
Ala His Val Leu Phe Gln Thr Ala Lys Ser Arg Val Tyr Glu Gly Lys
              85              90              95
Ile Thr Arg Asp Ala Ala Asn Thr Leu Asp Ser Thr Leu Gln Pro Val
100              105              110
Leu Glu Glu Gln Pro Lys Trp Ala Val Leu Ala Glu Val Leu Glu Glu
115              120              125
Ile Glu Gln Asp Ala Tyr Leu Asn Pro Val Ser Thr Asp Gly Ser Asn
130              135              140
Ser Thr Val Leu Ile Met Cys Thr Asp Gln Arg Thr Cys Arg Gln Ile
145              150              155              160
Arg Glu Tyr Leu Gly Thr Met His Ala Arg Ile Gly Lys Asp Lys Ala
165              170              175
Glu Asp Pro Gly Asp Leu Asp Ala Met Ser Glu Lys Lys Phe Ser Ala
180              185              190
Glu Val Met Leu Arg Arg Arg Leu Arg Glu Tyr Leu Asp Trp Lys Thr
195              200              205
Ser Leu Ala Asn Val Asn Arg Asn Leu Ser Ala Lys Ser Gly Asp Asp
210              215              220
Thr Gln Asn Ala Lys Gly Gln Glu Ser Pro Lys Pro Thr Ser Gln Gln
225              230              235              240
Gly Arg Ala Pro Pro Asn Lys Arg Arg Arg Val Arg Gly Gly Gly Thr
245              250              255
Val Thr Ser Ala Ala Ala Arg Val Pro Asn Ala Ser Val Gln Thr Asp
260              265              270
Thr Glu Leu Pro Gly Gln Val Ser Ser Leu Leu Glu Glu Leu Gln Pro
275              280              285

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12650

Thr Asp Ile Glu Glu Thr Gln Lys Gly Glu Ile Ile Ser Asp Asp Leu
 290 295 300
 Glu Asp Met Glu Asp Phe Phe Glu Leu Tyr Asp Met Asp Asp Leu Val
 305 310 315 320
 Ile Val His Pro Tyr Asp Gly Asp Met Asp Glu His Ile Leu Glu Glu
 325 330 335
 Val Arg Pro Arg Tyr Ile Ile Met Tyr Glu Pro Asp Ala Ala Phe Ile
 340 345 350
 Arg Arg Val Glu Val Tyr Arg Ser Ser His Val Gly Arg Asn Ile Arg
 355 360 365
 Val Tyr Phe Ile Tyr Tyr Gly Gly Ser Val Glu Glu Gln Arg Tyr Leu
 370 375 380
 Ser Ala Val Arg Arg Glu Lys Asp Ser Phe Thr Lys Leu Ile Lys Glu
 385 390 395 400
 Lys Gly Val Ser Asp Phe Gly His Val Ser Leu Phe Pro Cys Ile Asn
 405 410 415
 Ser Ser Leu Pro Glu His Gly Cys His Pro His Pro
 420 425

<210> 32298

<211> 286

<212> PRT

<213> A.fumigatus

<400> 32298

Leu Leu Gln Arg Thr Asp Gly Ser Thr Ser Ser Ser Ala Ala Lys Asn
 1 5 10 15
 Gln Ala Ser Arg Thr Ser Ser Asn Thr Trp Lys Ser His Arg Asn Gln
 20 25 30
 Pro Arg Lys Thr Tyr Asp Lys Asp Thr Phe Pro Arg Pro Leu Leu Arg
 35 40 45
 Asn Arg Ser Ala Ser Arg Ser Ala Ser Thr Ser Ser Ser Lys Trp Ser
 50 55 60
 Asp Arg Gly Gly Asp Val Gln Pro Phe Ile Ala Leu Gly Met Ala His
 65 70 75 80
 Gln Glu Asn Gly Ala Pro Gly Val Arg Leu Ala Thr His Leu Gly Val
 85 90 95
 Pro Gly Thr Trp Ser Arg Asp His Gly Leu Gln Leu Phe Ser Met Gly
 100 105 110
 Gly Asp Pro Ala Glu Leu Arg Gly Phe Met Val Lys Asn Pro Gly Leu
 115 120 125
 Leu Pro Gly Met Lys Thr Leu Arg Ser Gly Ala Ile Arg Arg Arg Arg
 130 135 140
 Arg Glu Met Ala Ala Ile Phe Ser Gly Cys Trp Arg Ser Cys Phe Glu
 145 150 155 160
 Thr Gly Asp Gly Thr Gly Leu His His Val Pro Glu Asp Leu Trp Ser
 165 170 175
 Glu Thr Val Asp Tyr Arg Glu Gln Pro Phe Val Ala Asp Ala Ile Ile
 180 185 190
 Ala Asn Pro Pro Ser Phe Ala His Ile Ser Cys Ala Glu Lys Leu Gly
 195 200 205
 Val Pro Leu Thr Leu Met Phe Thr Met Pro Trp Thr Pro Thr Gln Ala
 210 215 220
 Phe Pro His Pro Leu Ala Asn Val Arg Pro Thr Arg Thr Lys Arg Ser
 225 230 235 240
 Val Ala Asn Phe Ala Ser Tyr Ala Ile Val Glu Met Met Leu Tyr Glu

12651

245 250 255
 Gly Leu Gly Asp Leu Leu Asn Lys Phe Arg Lys Arg Glu Leu Gly Leu
 260 265 270
 Asp Pro Leu Glu Pro Phe Tyr Phe Thr Pro Gly Trp Lys Ile
 275 280 285

<210> 32299
 <211> 70
 <212> PRT
 <213> A.fumigatus

<400> 32299
 Gly Gly Arg Trp Gly Gly Pro Leu Gly Thr Thr Ile Ala Thr Pro Leu
 1 5 10 15
 Cys Thr Ser Pro Ser Ser Asp Thr Val Arg Phe Thr Gly Glu Thr Gly
 20 25 30
 Gln Val Ser Ala Gln Arg Leu Gln Ala Thr Val Leu Asp Pro Glu Gly
 35 40 45
 Ile Gly His Val Cys Cys Arg Cys Phe His Asp Cys His Asp Asn Tyr
 50 55 60
 Trp Leu Lys Ser Glu Tyr
 65 70

<210> 32300
 <211> 90
 <212> PRT
 <213> A.fumigatus

<400> 32300
 Cys Leu Lys Ser Gln Asp Thr Ser Cys Ala Leu Leu Ser His Glu Val
 1 5 10 15
 Pro Gln Cys Ile Ser Leu Tyr Thr Trp Asp Leu Asp Ser Pro Lys Asp
 20 25 30
 Ala Met Pro Pro Gln Gln Pro Thr Gly Gly Ile Thr Thr Ala Asp Trp
 35 40 45
 Pro Gln Gln Ala Leu Ser Asp Leu Val Ala Ala Asp Arg His His Asn
 50 55 60
 Pro Leu Leu Asp His Gly Met Asn Thr Gly Val Arg Ile Thr Gly Met
 65 70 75 80
 Met Ala Val Ser Ala Glu Lys Gln Gln Ser
 85 90

<210> 32301
 <211> 223
 <212> PRT
 <213> A.fumigatus

<400> 32301
 Ser Ser Ser Val Arg Thr Ile Lys Ala Pro Ile Pro Val Pro Ile Ala
 1 5 10 15
 Lys Glu Thr Lys Thr Arg Phe Asp Gln Ile Ser Thr Leu Phe Gln Asn
 20 25 30
 Val Ile Pro Asp Val Thr Gly Leu Asn Ser Trp Arg Tyr Gln Arg Gln
 35 40 45
 Leu Ser Gly Ala Ile Gln Glu Phe Ile Glu Ala Leu Ser Phe Asn His
 50 55 60

12652

Tyr Leu Gln Thr Gln Ser Leu Ile Ser His Ala Glu Val Ser Lys His
65 70 75 80
Leu Pro Ala Glu Ile Leu Val Thr Glu Glu Asp Tyr Leu Leu Gly Met
85 90 95
Phe Asp Leu Thr Gly Glu Met Met Arg Phe Ala Ile Thr Ser Leu Ser
100 105 110
Thr Gly Thr Met Gly Gln Glu Asp Ser Gly Gly Asp Asp Leu Ala Ala
115 120 125
Arg Asp Ile Ser Gly Ala Gly Ala His His Ser Leu Pro Lys Leu Pro
130 135 140
Ala Thr Gln Ala Gly Ile Val Val Asp Leu Arg Glu Met Arg Ser Ser
145 150 155 160
Phe Glu Leu Leu Ser Val Pro Arg Arg His Ala Asn Asn Met Leu Arg
165 170 175
Asp Met Gly Lys Lys Val Glu Val Met Gln Asn Ser Val Glu Lys Val
180 185 190
Glu Arg Ala Ala Tyr Gly Ile Leu Val Arg Gly Ser Glu Arg Pro Ser
195 200 205
Gly Trp Thr Pro Asp Leu Ser Ala Pro Val Asp Met Glu Val Tyr
210 215 220

<210> 32302
<211> 134
<212> PRT
<213> A.fumigatus

<400> 32302
Met Gln Ile Leu Ser Asp Asn Asn His Pro Lys Thr Val Lys Pro Ser
1 5 10 15
Gly Gly Met Thr Thr Met Thr Val Asn Gln Ser Gln Phe Val Leu Ser
20 25 30
Pro Gln Lys Gln Ser Lys Leu Gln His His Pro Met Ala Gly Asn
35 40 45
Lys Arg Ser Trp Glu Gly Asn Pro Val Arg Val Glu Lys Thr Gln Thr
50 55 60
Asn Met Ala Val Ala Pro Val Asp Gln Pro Ser Thr His Ile Leu Ser
65 70 75 80
Met Phe Glu Thr Phe Arg Asp Glu Leu Asp Gln His His Asp Arg Arg
85 90 95
Glu Arg Val Ile Lys Thr Ser Arg Asp Ile Thr Ala Leu Ser Lys Lys
100 105 110
Met Leu Val Pro Cys Pro Val Arg Pro Val Cys Ile His Ser His Ser
115 120 125
Ser Ser Ile Arg Gly Arg
130

<210> 32303
<211> 63
<212> PRT
<213> A.fumigatus

<400> 32303
Leu Leu Met Thr Gly Asn Ile Leu Pro His Ile Asn Ala Ala Pro Ala
1 5 10 15
Leu Gln Ala Asn Ala Lys Glu Leu Glu Lys His Met Leu Ala Asp Asn
20 25 30

12653

Leu Asp Gln Lys Leu Gln Arg Arg Pro Gln Pro Glu Glu Leu Ile Ser
 35 40 45
 Gln Gly Ile Leu Thr Glu Asp Glu Asp Pro Arg Cys Pro Ala Val
 50 55 60

<210> 32304
 <211> 186
 <212> PRT
 <213> A.fumigatus

<400> 32304
 Arg Glu Pro Arg Thr Ala Met Val Leu Ala Arg Asp Arg Glu Leu Leu
 1 5 10 15
 Arg Asp Thr Leu Arg Thr Gln Arg Thr Ala Leu Thr Ala Ala Asp Arg
 20 25 30
 Glu Asn Ile Leu Lys Pro Tyr Leu Pro Asp Pro Ser Glu Leu Ala Arg
 35 40 45
 Arg Pro His Arg Leu Lys Lys Pro Pro Arg Lys Ala Pro Ile Arg Thr
 50 55 60
 Phe Leu Lys Ser Arg Leu His Gln Leu Thr Tyr Thr Phe Ile His Ile
 65 70 75 80
 Val Tyr Gly Ile Ile Leu Arg Leu Val Gln Ser Tyr His Ala Leu Val
 85 90 95
 Asp Gln Val Leu Ala Ile Val Tyr Tyr His His Arg Thr Pro Lys Leu
 100 105 110
 Ile Arg Lys Asp Val Lys Gly Leu Arg Arg Leu Pro Gly His Leu Thr
 115 120 125
 Val Val Leu Ser Leu Arg Lys Glu Asp Asp Ala Leu Ala Ile Leu Met
 130 135 140
 Asp Glu Val Ala Glu Leu Ala Ala Trp Ser Val Ser Ala Gly Ile Pro
 145 150 155 160
 Met Leu Ser Val Tyr Glu Lys Ser Gly Met Ser Arg His Phe Thr Leu
 165 170 175
 Gly Ile Leu Ala Ser Ser Ser Ala Leu Arg
 180 185

<210> 32305
 <211> 204
 <212> PRT
 <213> A.fumigatus

<400> 32305
 Val Val Asp His Ser Leu Gly Ile Leu Lys Ser Cys Ile Pro Met Leu
 1 5 10 15
 His His Val Val Ala Ser Lys Phe Ala Ser Tyr Tyr Gly Ser Ile Pro
 20 25 30
 Gln Gln Pro Thr Leu Arg Leu Phe Ala Pro His His Ser Val Tyr Glu
 35 40 45
 Pro Ala Leu Asp His Asp Lys Ala Arg Arg Val Asn Thr Asp Ser Leu
 50 55 60
 Thr Leu Leu Leu Leu Ser Ala Thr Asp Gly Arg Glu Thr Ile Val Asp
 65 70 75 80
 Leu Thr Gln Thr Leu Ala Glu Met Ser Gln Asn Gly Lys Leu Ser Pro
 85 90 95
 Gly Asp Ile Thr Met Glu Leu Val Asp Ala Glu Ile Ser Glu Ile Thr
 100 105 110

12654

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Thr Gln Pro Leu Gln Pro Ala Ser Leu Ser Ile Gly Asp Arg Gln Thr
      115              120              125
Thr Ala Val His Pro Thr Ile Ala Val Lys Pro Glu Pro Asp Leu Leu
      130              135              140
Leu Val Phe Ala Pro Phe Leu Lys Leu Asp Gly Tyr Pro Pro Trp His
145              150              155              160
Ile Arg Leu Thr Glu Met Phe Cys Thr Gly Gly Lys Gly Ser Gly Val
      165              170              175
Thr Ser Tyr Gly Asp Ala Val Glu Tyr Gln Gly Phe Leu Arg Gly Leu
      180              185              190
Trp His Tyr Ala Gly Ala Gln Met Arg Phe Gly Arg
      195              200

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<210> 32306

<211> 365

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (34)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32306

```

Arg Gly Glu Arg Pro Thr Ala Ser Gln Ser Arg Lys Lys Arg Ser Gln
1              5              10              15
Val Ser Val Asn His Lys Pro Ser Thr Arg Leu Asp Cys Ile Gly Arg
      20              25              30
Gly Xaa Ser Ser Arg Val Tyr Arg Val Met Ala Glu Asn Tyr Lys Phe
      35              40              45
Phe Ala Leu Lys Arg Val Asn Leu Glu Asp Val Asp Pro Val Thr Leu
      50              55              60
Ala Gly Tyr Lys Gly Glu Ile Asp Leu Leu Lys Arg Leu Glu Asn Ile
      65              70              75              80
Asp Arg Val Val Arg Leu Phe Asp Trp Glu Leu Asn Ser Asp Lys His
      85              90              95
Thr Leu Ser Val Leu Met Glu Ile Gly Glu Ser Asp Leu Glu Lys Ile
      100              105              110
Leu Thr Tyr Arg Leu Asn Ala Glu Asp Ala Val Phe Asp Ile Asn Phe
      115              120              125
Thr Arg Tyr Tyr Trp Lys Glu Met Leu Glu Cys Val Gln Ala Val His
      130              135              140
Asn Cys Asn Ile Val His Ser Asp Leu Lys Pro Ala Asn Phe Leu Leu
      145              150              155              160
Val Gln Gly Arg Leu Lys Leu Ile Asp Phe Gly Ile Ala Asn Ala Ile
      165              170              175
Gln Asp Asn Thr Val Asn Val His Arg Glu Gln Gln Val Gly Thr Pro
      180              185              190
Asn Tyr Met Ser Pro Glu Ala Leu Ile Asp Ser Asn Ala Ser Leu Gly
      195              200              205
Leu Pro Ala Ser Val Gly Lys Met Met Lys Leu Gly Lys Pro Ser Asp
      210              215              220
Val Trp Ser Leu Gly Cys Ile Leu Tyr Lys Met Val Tyr Gly Gln Pro
      225              230              235              240
Pro Phe Ala Lys Ile Ala Lys Tyr Tyr Glu Arg Ile Met Ala Ile Pro
      245              250              255

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Asn Pro Lys Val Gln Ile Asp Phe Pro Ala Phe Gly Val Gly Gly Val
      260                      265                      270
Ala Ile Pro Pro Gly Leu Ile Arg Thr Leu Lys Arg Cys Leu Gln Arg
      275                      280                      285
Asp Gln Thr Leu Arg Pro Thr Val Glu Glu Leu Leu Ser Gln Arg Asp
      290                      295                      300
Ser Phe Leu Tyr Pro Asp Ala Gln Leu Glu Gly Thr Val Pro Val Asn
      305                      310                      315                      320
Gln Asp Met Leu Gly Arg Ile Leu Met Asn Val Val His His Cys Arg
      325                      330                      335
Thr Arg Gly Ile Pro Lys Asp Glu Glu Ile Ala Ala Trp Pro Ala Gly
      340                      345                      350
Phe Tyr Ala Lys Ile Lys Ala Ala Leu Glu Glu Asn Thr
      355                      360                      365

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<210> 32307

<211> 292

<212> PRT

<213> A.fumigatus

<400> 32307

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His Asp Ser Val Leu Gly Asp Thr Leu Val Lys Gly His Ile Arg Ile
1      5      10      15
Asp Arg Ala Ile Val Leu Arg Ser Ile Gly Asp Leu Arg Ile Phe Thr
      20      25      30
Pro Tyr Asp Leu Ser Ala Cys Arg Asp Glu Thr Gln Phe Gly Asp Val
      35      40      45
Asp Phe Asp Asp Gly Ser Leu Gly Gln Asp Ser Gln Leu Gly Val Gln
      50      55      60
Arg Val Leu Arg Val Leu Leu Asp Ala Gln Asp Gly Gln Leu His Gly
      65      70      75      80
Asp Ala Glu Leu Arg Ala Asp Lys Leu Ser Val Gly Leu Gln Arg Lys
      85      90      95
Lys Leu Arg Gly Lys Glu Gly Ser Ile Leu Arg Asp Ile Gly Leu Leu
      100     105     110
Val Thr Gln Thr His Arg Pro Asp Glu Thr Leu Val Leu Asp Arg Ser
      115     120     125
Pro Gly Glu Val Ala Thr Asp Lys Cys Gly Leu Gly Asp His Pro Leu
      130     135     140
Pro Arg Leu Leu Val Arg Leu Leu Ala Arg Val Asp Asp Leu Glu His
      145     150     155     160
Leu Leu Leu Thr Asp Thr Leu His Leu Gly Gln Gly His Arg Glu Leu
      165     170     175
Gly Arg Leu Leu Ser Thr Leu Ile Leu Asp Ser Thr Gly Gln Ser Leu
      180     185     190
Gly Val Gly Arg Leu Pro Thr Val Glu Gln Val Leu Gly Gln Arg Gly
      195     200     205
Leu Gly Pro Leu Val Gly Gly Gly Leu Asp Leu Leu Ser Leu Pro
      210     215     220
Cys Leu Asp Ala Pro Ala Pro Leu Asp Leu Pro Gly Leu Thr Leu Leu
      225     230     235     240
Leu Val Leu Leu Gly Pro Gln Ala Pro Pro Val Pro Gly His Pro Gly
      245     250     255
Asp Arg Leu Val Arg Phe Pro Gly Leu Gly Val Leu Arg Lys Pro Pro
      260     265     270
Leu Leu Gly Ser Asp Leu Pro Tyr Arg Gly Gly Phe Trp Pro Pro Ala

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275
Pro Ile Phe Pro
290

280

285

<210> 32308
<211> 202
<212> PRT
<213> A.fumigatus

<400> 32308
Arg Glu Tyr Gly Gly Gly Trp Pro Lys Ala Ala Thr Val Arg Glu Val
1 5 10 15
Gly Thr Lys Glu Gly Gly Leu Pro Gln Asp Ala Lys Ala Gly Glu Ser
20 25 30
His Gln Pro Val Ser Arg Met Pro Arg Asn Arg Arg Gly Leu Arg Ala
35 40 45
Lys Gln Tyr Gln Gln Lys Arg Gln Ala Arg Lys Ile Gln Arg Gly Arg
50 55 60
Gly Ile Lys Ala Arg Glu Gly Lys Lys Val Lys Ser Ser Ala Pro Asp
65 70 75 80
Glu Arg Ser Lys Thr Pro Leu Pro Gln Tyr Leu Phe Asp Arg Trp Gln
85 90 95
Ala Thr Asn Ala Lys Ala Leu Ser Ser Ala Ile Lys Asp Lys Arg Ala
100 105 110
Glu Lys Ala Ala Lys Phe Ala Val Pro Leu Pro Lys Val Lys Gly Ile
115 120 125
Ser Glu Glu Glu Met Phe Lys Val Val Asn Thr Gly Lys Lys Thr His
130 135 140
Lys Lys Ser Trp Lys Arg Met Ile Thr Lys Pro Thr Phe Val Gly Ser
145 150 155 160
Asp Phe Thr Arg Arg Pro Val Lys Tyr Glu Arg Phe Ile Arg Pro Met
165 170 175
Gly Leu Arg Tyr Lys Lys Ala Asn Val Thr Gln Tyr Ala Ala Phe Leu
180 185 190
Pro Ser Lys Leu Phe Ala Leu Gln Pro Asn
195 200

<210> 32309
<211> 99
<212> PRT
<213> A.fumigatus

<400> 32309
Gln Phe Ile Ser Pro Glu Leu Gly Val Thr Val Gln Leu Pro Ile Leu
1 5 10 15
Gly Val Lys Lys Asn Pro Gln Asn Pro Leu Tyr Thr Gln Leu Gly Val
20 25 30
Leu Thr Lys Gly Thr Ile Ile Glu Val Asn Val Ser Glu Leu Gly Leu
35 40 45
Val Thr Thr Ser Gly Lys Val Val Trp Gly Lys Tyr Ala Gln Ile Thr
50 55 60
Asn Thr Pro Glu Asn Asp Gly Thr Val Asn Ala Tyr Val Thr Phe His
65 70 75 80
Gln Cys Ile Ser Gln Asp Arg Val Met Leu Ile Phe Val Arg Arg Val
85 90 95
Leu Leu Val

<210> 32310
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 32310
 Ala Phe Cys Val Ala Thr Gln Leu Thr Ile Tyr Gln Pro Gly Ala Arg
 1 5 10 15
 Arg His Arg Ala Thr Ala His Pro Gly Arg Gln Glu Glu Pro Ala Glu
 20 25 30
 Pro Ser Val His Pro Thr Gly Ser Pro Asp Gln Gly Asn His His Arg
 35 40 45
 Ser Gln Arg Leu Arg Ile Gly Ser Arg His Asp Lys Arg Lys Gly Arg
 50 55 60
 Met Gly
 65

<210> 32311
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 32311
 Phe Ser Ser Leu Tyr Ser Trp Glu Ala Phe Lys Ala Arg Thr Val Ile
 1 5 10 15
 Pro Thr Ile Lys Ser Met His Leu Val His Arg Ser Asp Leu Gln Val
 20 25 30
 Ser Arg Asn Arg His His Asp Phe Asp Glu Gln Ile Phe Thr Ser Ala
 35 40 45
 Val Asp Tyr Leu Val Tyr Ile His Ile Arg Arg Ser Pro Ser Tyr Gly
 50 55 60
 Ile Tyr Ser Val Asn Ile Arg Ile Leu
 65 70

<210> 32312
 <211> 101
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (13), (29), (35), (39)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32312
 Leu His Tyr Asn Leu Tyr Gln Leu Asp Leu Pro Phe Xaa Cys Ile Leu
 1 5 10 15
 Phe Phe Leu Gly Pro His Cys Glu Glu Lys Lys Lys Xaa Met Thr Phe
 20 25 30
 Gly Thr Xaa Arg Gly Arg Xaa Ala Leu Ser Leu Ser Ile Ala Phe Thr
 35 40 45
 Thr Leu Ala Thr Val Phe Thr Ile Ile Arg Val Tyr Thr Arg Ile Phe
 50 55 60
 Leu Val Lys Gln Met Gly Ala Asp Asp Trp Ala Ile Ile Val Ala Leu

12658

65 70 75 80
 Val Arg Leu Ser Gln Glu Phe His Ser Arg Gly Arg Ile Cys Arg Leu
 85 90 95
 Thr Leu Ala Gly Leu
 100

<210> 32313
 <211> 145
 <212> PRT
 <213> A.fumigatus

<400> 32313
 Ser Asn Leu Cys Val Phe Pro Thr Ser Thr Ser Ile Tyr Arg Lys Asn
 1 5 10 15
 Gln Thr Asn Ser Gln Leu Leu Asp Asp Asn Pro Gly Ala Ala Lys Trp
 20 25 30
 Ser Ala Ile Glu Cys Asn Val Ala Ile Ile Cys Ala Cys Leu Pro Gly
 35 40 45
 Ile Arg Ala Phe Ile Thr Lys Leu Leu Pro Arg Phe Leu Ser Ser Tyr
 50 55 60
 Lys Ser Lys Ser Asn Thr Arg Thr Arg Thr Gln Arg Ser His Val Thr
 65 70 75 80
 His Phe Ser Asn Phe His Ser Ser Ile Ala Asp Arg Gln Ser Lys Phe
 85 90 95
 His Met Gln Ser Val Ser His Gly Pro Glu Gly Gly Asp Tyr Lys Ala
 100 105 110
 Ser Gly Phe Glu Glu Gly Thr Ser Asn Lys Ile Lys Val Thr Thr Ile
 115 120 125
 Val Ser Gln Glu Ser Val Ser Asn Asp Ala Ser Ser Val Arg Gln Leu
 130 135 140
 Leu
 145

<210> 32314
 <211> 60
 <212> PRT
 <213> A.fumigatus

<400> 32314
 Phe Asn Ser Trp Gly Val Trp Ser Leu Ala Gln Thr Leu Asp Gln His
 1 5 10 15
 Gly Asn Ile Ser Ser Ser Ser His Ile Asn Ser Gly Tyr Tyr Tyr Ser
 20 25 30
 Ile Thr Leu Leu Gly Ile Asp Tyr Phe Arg Leu Ser Phe Asn Tyr Leu
 35 40 45
 Ser Ala His Glu Pro Lys Asp Val Ser Gln Arg Ile
 50 55 60

<210> 32315
 <211> 135
 <212> PRT
 <213> A.fumigatus

<400> 32315
 Met Ile Thr Gln Ala Leu Pro Ser Gly Pro Pro Leu Asn Ala Thr Ser
 1 5 10 15

12659

Pro Leu Ser Ala Pro Ala Ser Leu Ala Ser Val Pro Leu Ser Pro Ser
 20 25 30
 Ser Ser Leu Ala Ser Ser Pro Ala Thr Arg Ala Arg Ala Thr Pro Ala
 35 40 45
 Arg Gly Pro Asn Ala Ala Met Leu Pro Thr Ser Pro Thr Ser Ile Leu
 50 55 60
 Pro Ser Leu Thr Ala Ser Pro Asn Ser Thr Cys Ser Leu Ser Ala Thr
 65 70 75 80
 Ala Arg Arg Ala Ala Thr Thr Arg Leu Ala Val Ser Arg Lys Ala Leu
 85 90 95
 Arg Ile Arg Ser Lys Ser Pro Pro Leu Cys His Arg Asn Pro Cys Arg
 100 105 110
 Met Met Leu Arg Val Cys Gly Ser Tyr Tyr Lys Gly Cys Tyr Pro Trp
 115 120 125
 Thr Gly Ser Phe Cys His Ala
 130 135

<210> 32316

<211> 76

<212> PRT

<213> A.fumigatus

<400> 32316

Ser His Pro Ala Arg Asn Arg Ser Pro Gly Glu Ala Gly Ser Ile Arg
 1 5 10 15
 Pro Gln Gly Arg Gln Arg Val Val Leu Arg Val Pro Arg Arg His Asp
 20 25 30
 Pro Gly Gly Pro Val Val Ala Pro His Thr Ala Pro Glu Ser Gly Ala
 35 40 45
 Thr Gly Pro Ala Gln Pro Arg Arg Leu Pro Gly Arg Ser Pro Arg Ala
 50 55 60
 Arg Arg His Trp Pro Cys Thr Pro Arg Gln Cys Arg
 65 70 75

<210> 32317

<211> 95

<212> PRT

<213> A.fumigatus

<400> 32317

Thr Ser Gln Ile Thr Leu Asn Met His Phe Ile Tyr Gln Ala Leu Ser
 1 5 10 15
 Ala Leu Ala Ala Ser Leu Leu Phe Ser Ser Ala Thr Ala Gly Ile Ala
 20 25 30
 His Cys Lys Val Gly Glu Ala Trp Pro Asp Ser Ser Asp Cys His Asn
 35 40 45
 Phe Tyr Glu Cys Ala Ser Glu Gly Ala Pro Val Leu Lys Thr Cys Gly
 50 55 60
 Pro Gly Thr Ala Tyr Cys Pro Thr Thr Gly Val Cys Val His Glu Glu
 65 70 75 80
 Asn Val Pro Ser Cys Phe His Arg Gly His His Ser Glu Asp Glu
 85 90 95

<210> 32318

<211> 338

<212> PRT

<213> A.fumigatus

<400> 32318

Thr Val Thr Met Pro Arg Thr Arg Pro Arg Arg Leu Asn His Leu Gln
 1 5 10 15
 Gly Ile Asn Val Asp Gln Met Ala Gln Ile Ala Asp Ala Ala Asn Asn
 20 25 30
 Asp Tyr Leu Arg Leu Glu Asn Leu Asp Val Asn Ile Pro Pro Glu Pro
 35 40 45
 Glu Ala Leu Ala Tyr Met Gln Gln Ala Val Ala Asp Glu Ala Cys Asn
 50 55 60
 Ser Tyr Leu Pro Phe Thr Gly Lys Ala Arg Leu Lys Asp Ile Ala Ala
 65 70 75 80
 Arg His Val Ser Gln Val Ser Gly Met Ala Tyr Thr Gly Gln Arg His
 85 90 95
 Cys Val Ile Ser Ala Gly Gly Leu Ser Gly Ile Leu Asn Val Leu Leu
 100 105 110
 Ala Thr Ile Glu Glu Gly Asp Glu Val Ile Leu Thr Asp Pro Thr Tyr
 115 120 125
 Arg Gly Leu Leu Asn Arg Val Leu Leu Ala Gly Gly Val Pro Lys Leu
 130 135 140
 Val Pro Phe Thr Phe Gln Pro Gly Gln Glu Trp Arg Leu Asp Gln Ala
 145 150 155 160
 Ala Leu Arg Ala Ala Ile Thr Glu Lys Thr Thr Ala Ile Leu Leu Met
 165 170 175
 Ser Pro Ser Met Pro Ser Gly Gly Tyr Leu Thr Arg Asp Asp Trp Thr
 180 185 190
 Leu Val Ala Glu Ile Cys Val Gln Asn Asp Leu Leu Leu Ile Leu Asp
 195 200 205
 Thr Ala Met Glu Arg Leu Leu Phe Asp Ala Arg Pro Val Ile His Pro
 210 215 220
 Ala Gly Phe Pro Gly Met Phe Glu Arg Thr Val Thr Val Gly Ser Ser
 225 230 235 240
 Ala Lys Glu Leu Arg Met Ile Gly Trp Arg Val Gly Trp Ile Val Gly
 245 250 255
 Pro Glu Glu Leu Ile Ser Asp Ile Ala Ala Val Cys Met Ala Asn Val
 260 265 270
 Val Val Pro Val Gly Ile Ala Gln Glu Ala Val Ala Val Ala Leu Asp
 275 280 285
 Arg Ser Pro Gln Thr Leu Ala Pro Tyr Val Ala Gln Leu Gln Ala Arg
 290 295 300
 Arg Asp Arg Val Val Ala Glu Leu Glu Gly Leu Pro Val Gly Val Pro
 305 310 315 320
 Ala Gly Gly Trp Ser Leu Leu Leu Arg Val Ser Asp Phe Gly Leu Asp
 325 330 335
 Gly Ser

<210> 32319

<211> 275

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (207), (217), (224)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32319

```

Gly His Asp Leu Glu Leu Ser Ile Asn His Pro Phe Lys Arg Ser Ile
1          5          10          15
Glu Asn Gln Val Ser Ile Ser Arg Tyr Trp Leu Ala Ser Ser Leu Leu
          20          25          30
Leu Ser Val Ala Tyr Ser Gly Ile Ser Thr Tyr Ser Asn His Pro Ala
          35          40          45
Val Thr Lys Leu Pro Arg Ser Pro Ser Thr Cys Thr Ser Ser Thr Arg
          50          55          60
Pro Cys Leu Pro Trp Arg Pro Leu Ser Ser Ser His Pro Pro Pro Gln
65          70          75          80
Gly Ser Arg Thr Ala Arg Ser Glu Arg His Gly Pro Ile Pro Pro Thr
          85          90          95
Ala Thr Thr Ser Thr Ser Ala Arg Pro Lys Ala Pro Pro Ser Ser Arg
          100         105         110
Pro Ala Ala Pro Val Leu Pro Thr Ala Arg Arg Arg Val Phe Val Ser
          115         120         125
Thr Arg Lys Thr Ser Pro Ala Ala Ser Thr Glu Val Ile Thr Leu Arg
          130         135         140
Met Ser Ser Cys Thr Leu Met Arg Gly Asp Trp Tyr Thr Ala Arg Cys
145         150         155         160
Ile Ile His Ala Leu Glu Thr Gly Leu His Val Phe Leu Phe Trp Val
          165         170         175
Leu Tyr His Val Leu Ile Glu Gly Asp Arg Leu Val Pro Val Ile Arg
          180         185         190
Ile Val Trp Met Leu Arg Leu Ile Ile Glu Asn Ser Cys His Xaa Tyr
          195         200         205
Gln Tyr Leu Ser Ile Ala Cys Pro Xaa Arg Phe Leu Gln Phe Cys Xaa
          210         215         220
Tyr Thr Asn Leu Thr Asn Leu Leu Arg Ser Asn Gln Thr Asn Met Asp
225         230         235         240
His Val His Glu Asn Arg Thr Thr Ser Ser Ile Gln Glu Asp Gln Ala
          245         250         255
Tyr Ser Ile Ser Gly Ala Pro Pro His Ser Ser Gln Ile Ala Ser Leu
          260         265         270
Leu Asp Arg
          275

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<210> 32320

<211> 322

<212> PRT

<213> A.fumigatus

<400> 32320

```

Val Met Ile Tyr Gly Cys Val Val Met Ser Leu Thr Ser Ile Gln Ile
1          5          10          15
Thr Glu Leu Leu Leu Glu Arg Trp Lys Ser Lys Arg Lys His Tyr Leu
          20          25          30
Ile Leu Ser Ala Ala Gly Lys Pro Ile Trp Thr Arg His Gly Asp Gly
          35          40          45
Gly Leu Ile Ser Gly Tyr Ile Gly Val Ile Leu Thr Ile Ile Ser Phe
          50          55          60
Tyr Glu Asp Ala Asn Asp Arg Leu Thr Ser Phe Cys Ala Gly Asp Thr
65          70          75          80

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Lys Phe Val Ile Val Thr Lys Gly Pro Leu Tyr Leu Val Ala Ile Ser
 85 90 95
 Arg Leu Leu Glu Ser Asp Thr Gln Leu Lys Leu Gln Leu Glu Ala Leu
 100 105 110
 Tyr Met Gln Ile Leu Ser Thr Leu Thr Leu Pro Ser Leu Thr His Leu
 115 120 125
 Phe Ser Val Arg Pro Ser Thr Asp Leu Lys Arg Pro Leu Gln Gly Ser
 130 135 140
 Glu Thr Leu Leu Ser Thr Leu Ala Asp Ser Phe Thr Lys Gly Ser Pro
 145 150 155 160
 Ser Thr Phe Leu Ser Ala Leu Glu Cys Leu Lys Ile Arg Lys Ser His
 165 170 175
 Arg Gln Ala Ile Asn Asn Ala Leu Leu Lys Thr Lys Val Ser Ser Leu
 180 185 190
 Leu Tyr Gly Leu Val Val Ala Gly Gly Arg Leu Val Ser Val Val Arg
 195 200 205
 Pro Lys Lys His Ser Leu His Pro Gly Asp Leu Gln Leu Leu Phe Asn
 210 215 220
 Met Ile Phe Glu Ala Glu Gly Ile Lys Ala Gly Gly Gly Glu Ser Trp
 225 230 235 240
 Ile Pro Val Cys Leu Pro Gly Phe Asn Ser Ser Gly Tyr Leu Tyr Met
 245 250 255
 Tyr Val Ser Phe Leu Asp Leu Arg Glu Asn Ser Gly Thr Ser Ala Ser
 260 265 270
 Glu Thr Thr Thr Thr Glu Gln Ser Val Ala Ile Ile Leu Ile Ser Pro
 275 280 285
 Asn Lys Glu Gly Phe Phe Glu Met Gln Glu Met Arg Asn Ser Leu Val
 290 295 300
 Glu Val Cys Lys Ser Ser Ser Pro Arg Gly Trp Lys Asp Arg Arg Glu
 305 310 315 320
 Ser Ile

<210> 32321

<211> 91

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (57)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32321

Pro Asn Ala Ser Pro Gly Ala Glu Glu Val Ser Arg Asn Ala Gly Phe
 1 5 10 15
 Phe Val Tyr Leu Thr Pro Ser Ala Ala Leu Gly Ser Ile Thr Ala Cys
 20 25 30
 Asn Gly His Pro Gln Thr Cys Thr Ser Asn Ser Leu Lys Glu Lys Ser
 35 40 45
 Asp Asn Glu Trp Glu Met Gly Asn Xaa Ala Phe Thr Leu Thr Asn Arg
 50 55 60
 Arg His Gly Glu Lys Thr Ile Ala Tyr Ala Glu Ser His Asp Gln Ala
 65 70 75 80
 Leu Val Pro Ser Arg Asp Leu Gln Cys Arg Pro
 85 90

<210> 32322
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 32322
 Arg Arg Arg Ser Ala Pro His Arg Arg Tyr Gly Gly Arg Ala Tyr Glu
 1 5 10 15
 Thr Trp Ser Arg Glu Gly Arg Gln Gln Gly Arg Tyr Pro Thr Gln Arg
 20 25 30
 Tyr His Gly Thr Arg Gln Trp Trp Arg Pro Ser Glu Arg Arg Trp Trp
 35 40 45
 Arg Gly Gln Gly Gln Ser Asp Arg Gln Arg Ala Arg Arg Arg Pro Gly
 50 55 60
 Arg Arg
 65

<210> 32323
 <211> 293
 <212> PRT
 <213> A.fumigatus

<400> 32323
 Ser Ser Val Ser Pro Leu Pro Arg Ser Ala Met Ser Ser Val Ala Thr
 1 5 10 15
 Asn Phe Phe Ser Leu Val Gly Asp Lys Thr Leu Met Met Trp Leu Cys
 20 25 30
 Asp Lys Glu Met Tyr Thr His Met Ser Val Leu Thr Glu Phe Thr Pro
 35 40 45
 Thr Ile Glu Arg Gly Met Ala Leu His Lys Met Ile Arg Leu Val Thr
 50 55 60
 His Gly Leu Gly Gly Glu Gly Tyr Leu Asn Phe Glu Gly Asn Glu Phe
 65 70 75 80
 Gly His Pro Glu Trp Leu Asp Phe Pro Arg Ala Gly Asn Asn Asn Ser
 85 90 95
 Phe Trp Tyr Ala Arg Arg Gln Leu Asn Leu Thr Glu Asp His Leu Leu
 100 105 110
 Arg Tyr Lys Phe Leu Asn Glu Phe Asp Arg Ser Met Gln Leu Thr Glu
 115 120 125
 Glu Lys Tyr Gly Trp Leu His Ser Pro Gln Ala Tyr Val Ser Leu Lys
 130 135 140
 His Glu Ile Asp Lys Val Leu Ala Phe Glu Arg Ala Gly Leu Leu Trp
 145 150 155 160
 Ile Phe Asn Phe His Pro Thr Glu Ser Phe Thr Asp Tyr Arg Val Gly
 165 170 175
 Val Glu Gln Ala Gly Thr Tyr Arg Ile Val Leu Asp Thr Asp Asp Pro
 180 185 190
 Glu Phe Gly Gly Phe Gly Arg Asn Leu Lys Glu Thr Arg Phe Phe Thr
 195 200 205
 Thr Asp Met Pro Trp Asn Gly Arg Ser Asn Tyr Leu Gln Val Tyr Leu
 210 215 220
 Pro Thr Arg Thr Ala Leu Val Cys Thr Pro Ser Thr Phe Pro Phe Val
 225 230 235 240
 Gly Asp Leu Arg Ala Asn Lys Lys Leu Gln Cys Arg Ser Ser Pro Trp
 245 250 255

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Lys Lys His Cys Ser His Leu Asn Gly Phe Met Pro Arg Leu Gly Arg
 260 265 270
 Gly Gln Cys Glu Ser Leu His Ile Asp Ile Lys Tyr Val Ala Leu Pro
 275 280 285
 Asn Asn Leu Pro Gln
 290

<210> 32324

<211> 302

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (176)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32324

Ile Met Phe Lys Leu Thr Leu Arg Lys Ile Ile Thr Phe Thr Val Asp
 1 5 10 15
 Asp Gly Leu Glu Thr Ala Asp Gly Val Leu Glu Val Asp Gln Leu Thr
 20 25 30
 Leu Asp Thr Ser Glu Asp Leu Gly Asp Ser Glu Arg Leu Ala Gln Glu
 35 40 45
 Thr Leu Glu Leu Thr Ser Thr Leu Asp Gly Glu Leu Val Ser Phe Arg
 50 55 60
 Lys Phe Val His Thr Gln Asn Gly Asn Asp Ile Leu Glu Gly Leu Val
 65 70 75 80
 Leu Leu Glu His Leu Leu Asp Thr Gly Ser Asp Gly Val Val Leu Leu
 85 90 95
 Thr Asp Asp Thr Gly Val Glu His Thr Arg Leu Gly Val Glu Arg Val
 100 105 110
 Asp Ser Arg Val Asp Thr Gln Leu Arg Asp Thr Thr Gly Gln Asp Ser
 115 120 125
 Gly Gly Val Gln Val Ser Glu Gly Gly Gly Gly Gly Arg Val Ser Gln
 130 135 140
 Ile Val Ser Gly His Val Asp Gly Leu Asp Gly Gly Asn Arg Thr Leu
 145 150 155 160
 Leu Gly Gly Gly Asp Thr Leu Leu His Thr Thr His Val Asp Gly Xaa
 165 170 175
 Gly Gly Leu Val Thr Asp Gly Arg Gly Asp Thr Thr Glu Lys Gly Arg
 180 185 190
 His Leu Arg Thr Gly Leu Gly Glu Thr Glu Asn Val Val Asn Glu Glu
 195 200 205
 Gln His Val Leu Thr Leu Leu Val Thr Glu Val Leu Gly Asn Gly Gln
 210 215 220
 Thr Gly Lys Gly Asp Thr Gly Thr Gly Thr Gly Leu Val His Leu
 225 230 235 240
 Ser Glu His Gln Cys Asp Leu Gly Phe Thr Leu Glu Leu Asn Asp Thr
 245 250 255
 Ser Leu Leu His Phe Val Val Gln Ile Val Thr Leu Thr Ser Thr Pro
 260 265 270
 Pro Asn Thr Ser Glu Asp Gly Val Thr Thr Val Gly Leu Gly Asn Val
 275 280 285
 Gly Ser Thr Trp Phe Ala Leu Leu Lys Arg Ser Ser Glu Asn
 290 295 300

<210> 32325
 <211> 315
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (119)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32325
 Arg Lys Pro Cys Arg Thr Asn Ile Ala Lys Ala His Gly Gly Tyr Ser
 1 5 10 15
 Val Phe Thr Gly Val Gly Gly Arg Thr Arg Glu Gly Asn Asp Leu Tyr
 20 25 30
 His Glu Met Gln Glu Thr Gly Val Ile Gln Leu Glu Gly Glu Ser Lys
 35 40 45
 Val Ala Leu Val Phe Gly Gln Met Asn Glu Pro Pro Gly Ala Arg Ala
 50 55 60
 Arg Val Ala Leu Thr Gly Leu Thr Ile Ala Glu Tyr Phe Arg Asp Glu
 65 70 75 80
 Glu Gly Gln Asp Val Leu Leu Phe Ile Asp Asn Ile Phe Arg Phe Thr
 85 90 95
 Gln Ala Gly Ser Glu Val Ser Ala Leu Leu Gly Arg Ile Pro Ser Ala
 100 105 110
 Val Gly Tyr Gln Pro Thr Xaa Ala Val Asp Met Gly Gly Met Gln Glu
 115 120 125
 Arg Ile Thr Thr Thr Lys Lys Gly Ser Ile Thr Ser Val Gln Ala Val
 130 135 140
 Tyr Val Pro Ala Asp Asp Leu Thr Asp Pro Ala Pro Ala Thr Thr Phe
 145 150 155 160
 Ala His Leu Asp Ala Thr Thr Val Leu Ser Arg Gly Ile Ser Glu Leu
 165 170 175
 Gly Ile Tyr Pro Ala Val Asp Pro Leu Asp Ser Lys Ser Arg Met Leu
 180 185 190
 Asp Pro Arg Ile Val Gly Glu Glu His Tyr Ala Val Ala Thr Arg Val
 195 200 205
 Gln Gln Met Leu Gln Glu Tyr Lys Ser Leu Gln Asp Ile Ile Ala Ile
 210 215 220
 Leu Gly Met Asp Glu Leu Ser Glu Ala Asp Lys Leu Thr Val Glu Arg
 225 230 235 240
 Ala Arg Lys Leu Gln Arg Phe Leu Ser Gln Pro Phe Thr Val Ala Gln
 245 250 255
 Val Phe Thr Gly Ile Glu Gly Lys Leu Val Asp Leu Lys Asp Thr Ile
 260 265 270
 Arg Ser Phe Lys Ala Ile Ile Asn Gly Glu Gly Asp Asp Leu Pro Glu
 275 280 285
 Gly Lys Phe Glu His Asp Leu Ser Ser Ile Ile Arg Asn Lys Val Leu
 290 295 300
 Met Thr Phe Phe Ser Cys Leu Leu His Gly Trp
 305 310 315

<210> 32326
 <211> 235
 <212> PRT

<213> A.fumigatus

<400> 32326

```

Ser Ser Ile Val Ser Arg Ser Ser Leu Ser Ser Ile Cys Thr Arg Cys
1      5      10      15
Cys Arg Ser Leu Leu Pro Gly Phe Pro Ala Leu Arg Ala Ala Ser Ser
      20      25      30
Ser Ala Ser Ser Arg Phe Leu Val Phe Lys Ser Ser Ser Ser Phe Trp
      35      40      45
Ile Ala Gly Leu Ala Ala Thr Ser Ala Ala Arg Trp Ala Leu Leu Pro
      50      55      60
Tyr Ala Pro Ser Ser Ser Ala Leu Ala Ile Val Ser Ser Val Cys Thr
65      70      75      80
Leu Thr Thr Ser Pro Ser Ile Ser Val Ser Ser Ala Cys Arg Arg Leu
      85      90      95
Ala Leu Cys Ser Ala Phe Ala Arg Pro Ser Thr Ala Ser Leu Thr Arg
      100     105     110
Asp Ser Met Ser Thr Arg Ser Phe Ser Ile Ala Ser Cys Ser Arg Glu
      115     120     125
Thr Ser Leu Thr Ile Ser Leu Asn Ser Ala Cys Ser Arg Val Ala Leu
      130     135     140
Ser Ser Ala Ala Thr Arg Glu Ser Lys Ala Ser Leu Ile Arg Ala Ser
145     150     155     160
Ala Ser Leu Arg Thr Cys Cys Ile Val Cys Ser Ser Cys Ser Thr Cys
      165     170     175
Cys Ser Ala Arg Ser Pro Gly Leu Asp Ser Phe Leu Ser Ser Gly Val
      180     185     190
Gly Leu Leu Thr Lys Leu Ile Asn Gln Ile Leu Gln Ala Cys Asp Phe
      195     200     205
Thr Ile Ser Leu Gln Ala Ser Gly Ser Glu Phe Leu Cys Leu Arg Asp
      210     215     220
Ala Phe Gly Ser Lys Leu Phe Glu Leu Gly Phe
225     230     235

```

<210> 32327

<211> 87

<212> PRT

<213> A.fumigatus

<400> 32327

```

Ser Phe Glu Leu Leu Asp Cys Gln Val Glu Phe Ile Leu Cys Thr Leu
1      5      10      15
Ser Pro Leu Leu Arg Gln Phe Glu Val Phe Pro Glu Met Ser Asp Leu
      20      25      30
Leu His Gln Ile Gly Tyr Val Arg Ile Ser Phe Arg Val Arg Phe Gly
      35      40      45
Val Gln Phe Ser Leu Leu Leu Asn Leu Ser Gly Gln Asp Ala Leu Leu
      50      55      60
Phe Glu Glu Leu Leu Asp Leu Ala Met Lys Val Ile Asn Ala Lys Ile
65      70      75      80
Gln Val Phe Glu Met Cys Leu
      85

```

<210> 32328

<211> 286

<212> PRT

<213> A.fumigatus

<400> 32328

```

Thr Ala Lys Ser Ala Glu Thr Pro Arg Thr Leu Glu Ser Asn His Gly
1      5      10      15
Ala Glu Asn His Leu Val Glu Ile Asn Ala Arg Leu His His Ile Val
      20      25      30
Gly Gln Ser Gly Ser Ser Arg Ser Gln Ala Leu Ser Pro Pro Pro Ala
      35      40      45
Ser Ser Gly Asn Gly Leu Gln Ala His Phe Glu Tyr Leu Asn Leu Gly
      50      55      60
Ile Asp Asp Leu His Ser Gln Ile Glu Lys Leu Leu Glu Gln Lys Ser
65      70      75      80
Ile Leu Thr Thr Gln Ile Gln Gln Gln Arg Glu Leu Asn Ser Lys Ser
      85      90      95
Asp Ala Glu Arg Asp Ala His Ile Ala Asp Leu Val Glu Gln Ile Ala
      100      105      110
His Leu Arg Lys Asp Leu Glu Leu Ser Glu Gln Gly Ala Gln Ser Ala
      115      120      125
Lys Asp Glu Leu Asp Leu Ala Ile Lys Gln Leu Glu Ala Leu Arg Gln
      130      135      140
Glu Leu Asn Asp Leu Gln Gln His Lys Ser Ala Ala Glu Asp His Ala
145      150      155      160
Ser Ala Leu Ala Ser Glu Lys Glu Ala Arg Val His Val Glu Ala Glu
      165      170      175
Leu Ser Arg Leu Gln Thr Val Ile Gln Glu Leu Lys Gln Glu Arg Asp
      180      185      190
Ala Gln Met Glu Ala Asp Glu Ala Arg Val Arg Ala Glu Arg Glu Val
      195      200      205
Ala Arg Leu Glu Ser Gln Leu Glu Gln Leu Arg Ser Glu Ser Val Ser
      210      215      220
Gln Thr Glu Glu Leu Thr Ala Ala Arg Leu Lys Ala Asp Ser Glu Val
225      230      235      240
Thr Arg Leu Gln Asn Leu Val Asp Gln Leu Arg Gln Glu Ala Asn Thr
      245      250      255
Arg Ala Glu Glu Ala Val Glu Ala Arg Gly Pro Ser Arg Thr Thr Ser
      260      265      270
Thr Ala Ala Gly Ala Asp Asp Ala Ala Gly Ser Gln Arg Cys
      275      280      285

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<210> 32329

<211> 324

<212> PRT

<213> A.fumigatus

<400> 32329

```

Arg Leu Ile Val Lys Ser His Ala Cys Arg Ile Trp Leu Ile Asn Phe
1      5      10      15
Val Arg Arg Pro Thr Pro Glu Leu Arg Lys Leu Ser Arg Pro Gly Asp
      20      25      30
Arg Ala Glu Gln Gln Val Leu Gln Leu Glu Gln Thr Met Gln Gln Val
      35      40      45
Arg Asn Asp Ala Asp Ala Arg Ile Lys Glu Ala Phe Asp Ser Arg Val
      50      55      60
Ala Ala Glu Glu Ser Ala Thr Arg Leu Gln Ala Glu Leu Ser Glu Met
65      70      75      80

```

Val Ser Glu Val Ser Arg Leu Gln Asp Ala Met Glu Lys Leu Arg Val
 85 90 95
 Asp Met Glu Ser Arg Val Arg Glu Ala Val Glu Gly Arg Ala Asn Ala
 100 105 110
 Glu Gln Ser Ala Ser Arg Leu Gln Ala Glu Leu Thr Glu Met Glu Gly
 115 120 125
 Glu Val Val Arg Val Gln Thr Glu Leu Thr Met Ala Lys Ala Glu Leu
 130 135 140
 Asp Gly Ala Tyr Gly Ser Arg Ala Gln Arg Ala Ala Glu Val Ala Ala
 145 150 155 160
 Asn Pro Ala Ile Gln Lys Glu Leu Asp Asp Leu Asn Thr Arg Asn Leu
 165 170 175
 Glu Leu Ala Glu Glu Leu Ala Ala Leu Lys Ala Gly Lys Pro Gly Ser
 180 185 190
 Ser Asp Leu Gln Gln Arg Val Gln Met Leu Glu Arg Glu Leu Arg Glu
 195 200 205
 Thr Ile Asp Asp Tyr Glu Val Met Thr Lys Ala Ser Ile Glu Phe Glu
 210 215 220
 Lys Glu Arg Glu Arg Tyr Glu Gly Met Ile Asp Gly Leu Arg Asp Arg
 225 230 235 240
 Cys Glu Gln Leu Glu Thr Gln Leu Asn Glu Glu Arg Ile Asn Trp Met
 245 250 255
 Gly Ile Asn Asn Ala Met Gly Arg Asp Gly Thr Tyr Glu Thr Thr Ser
 260 265 270
 Thr Met Val Leu Lys Asn Glu Phe Lys Lys Met Met Arg Asp Thr Arg
 275 280 285
 Ile Glu Asn Met Lys Ile Leu Lys Val Ser Tyr Asn Val Val Ala Phe
 290 295 300
 Arg Ser His Tyr Ala Lys Leu Ser Tyr Leu Cys Arg Arg Asn Lys Lys
 305 310 315 320
 Asn Glu Gly Asp

<210> 32330

<211> 477

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (279)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32330

Leu Thr Ile Leu Arg Leu Gly Thr Ile Asn Ser Leu Pro Pro Asp Leu
 1 5 10 15
 Ile Tyr Lys Ser Ala Thr Gln Thr Ala Leu Glu Leu Ala Pro Asn Leu
 20 25 30
 Arg Gln Gln Gly Ala Asp Ile Ile Val Ala Val Thr His Gln Arg Glu
 35 40 45
 Pro Asn Asp Tyr Lys Leu Ala Gln Asn Leu Pro Pro Gly Thr Ile Asp
 50 55 60
 Leu Ile Leu Gly Gly His Asp His Phe Tyr Gly His Ala Val Ile Asn
 65 70 75 80
 Asp Thr His Ile Leu Arg Ser Gly Thr Asp Phe Lys Gln Leu Ser Tyr
 85 90 95

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Ile	Glu	Ala	Trp	Arg	Lys	Thr	Asp	Gly	Pro	Gly	Trp	Asp	Phe	Asn	Ile	100	105	110
Val	Arg	Arg	Asp	Ile	Val	Arg	Thr	Ile	Pro	Glu	Asp	Pro	Ala	Thr	Val	115	120	125
Ala	Leu	Val	Ser	Arg	Leu	Thr	Ser	Ser	Leu	Lys	Ala	Lys	Leu	Glu	Lys	130	135	140
Pro	Val	Gly	Tyr	Thr	Val	Arg	Pro	Leu	Asp	Gly	Arg	Phe	Ser	Thr	Val	145	150	155
Arg	Gln	Lys	Glu	Ser	Asn	Leu	Gly	Asn	Phe	Val	Cys	Asp	Leu	Met	Arg	165	170	175
Phe	Tyr	Tyr	Ala	Ala	Asp	Cys	Ala	Met	Met	Ala	Gly	Gly	Thr	Ile	Arg	180	185	190
Gly	Asp	Gln	Ile	Tyr	Pro	Pro	Gly	Leu	Leu	Arg	Leu	Lys	Asp	Leu	Leu	195	200	205
Asn	Cys	Phe	Pro	Phe	Gln	Glu	Pro	Val	Val	Leu	Leu	Arg	Ile	Lys	Gly	210	215	220
Ser	Ala	Leu	Met	Asp	Ala	Leu	Lys	Asn	Gly	Leu	Ser	Gln	Leu	Pro	Ala	225	230	235
Leu	Glu	Asp	Arg	Phe	Pro	Gln	Val	Ser	Asn	Ile	Ser	Leu	Val	Thr	Thr	245	250	255
Arg	Pro	Asn	Pro	Leu	Ala	Arg	Ala	Ser	Leu	Gly	Gln	Gly	Ser	Arg	Thr	260	265	270
Pro	Asp	Arg	Val	Arg	Thr	Xaa	Leu	Arg	Pro	Arg	Asp	Lys	Gly	Leu	His	275	280	285
Gly	Pro	Arg	Lys	Gly	Arg	Val	Arg	Ile	Ala	Ser	Cys	Glu	Val	Cys	Arg	290	295	300
Arg	Arg	Gly	Gly	Arg	Asp	Cys	Arg	Arg	Arg	Glu	Arg	Arg	Asp	Asp	Gln	305	310	315
His	His	Pro	Pro	Pro	Ile	Leu	Pro	Gln	Pro	Pro	Asp	Leu	Gly	Gln	Val	325	330	335
Ala	Ala	Leu	Glu	Gln	Lys	Ser	Ile	Pro	Ala	Leu	Gly	Gln	Ser	Pro	Pro	340	345	350
Glu	Ser	Pro	Leu	Arg	Gly	Leu	Ala	Glu	Thr	Arg	Leu	Arg	Ala	Ser	Leu	355	360	365
Pro	Arg	Leu	Arg	Lys	Gly	Ala	Gln	Pro	Ala	Phe	Arg	Val	Thr	Thr	Glu	370	375	380
Ser	Gln	Thr	His	Lys	Ala	Leu	Leu	Leu	Arg	Pro	Val	Arg	Gln	Tyr	Arg	385	390	395
Arg	Gln	Arg	Asp	Cys	Gly	Gly	Pro	Arg	Arg	Arg	Gly	Gly	Gly	His	Lys	405	410	415
His	Gly	Leu	Gly	Leu	Gly	Phe	Gly	Pro	Gly	Asp	Leu	Asp	Leu	Pro	Ala	420	425	430
Ala	Asn	His	Gln	Leu	Arg	His	Pro	Ala	Cys	Pro	Leu	Arg	Arg	Gly	Arg	435	440	445
Arg	Thr	Ser	Thr	Ala	Ala	Cys	Ala	Pro	Gly	Gly	Pro	Glu	Met	Asp	Ala	450	455	460
Gly	Arg	Trp	Ile	Arg	Ala	His	Asn	Thr	Gln	Tyr	Ser	Arg				465	470	475

<210> 32331

<211> 82

<212> PRT

<213> A.fumigatus

<400> 32331

Pro Cys Pro Arg Ala Gly Ser Ala Glu Pro Val Gly Gly Val Ser Arg

<210> 32332

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (25)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32332

[illegible]

12671

<210> 32333
<211> 287
<212> PRT
<213> A.fumigatus

<400> 32333

```

Pro Asn Ile Ala Leu Ser Ser Ser Ser Ala Arg Leu Val Leu Ala Ile
1      5      10      15
Glu Phe Lys Gly Pro Phe Pro Thr Thr Gln Leu Ala Lys Ala Ser Thr
      20      25      30
Pro Ser Asn Pro Ser Ile Met Ala Pro Ile Leu Thr Ser Ser Pro Thr
      35      40      45
Leu Arg Ile Thr Pro Glu Pro Phe Thr Lys Glu Ala Phe Ala Pro Phe
      50      55      60
Gly Thr Ala Ile Ser Cys Pro Leu Pro Arg Asp Leu Ser Ser Ala Pro
65      70      75      80
Pro Leu Ser Ser Leu Pro Pro His Asp Pro Ala Pro Val Ile Ala Asn
      85      90      95
Gln Ser Ser Ala Leu Lys Tyr Ser Pro Ile Ser Pro Leu Leu Asp His
      100     105     110
Tyr Ala Gln Cys Pro Ser Thr Gln Pro Ser Ser Ala Arg Met Ser Met
      115     120     125
Phe Ser Cys Phe Pro Arg Lys Leu Arg Thr Ala Lys Ala Thr Gly Gly
      130     135     140
Glu Thr Asn Val Phe Asp Val Arg Ile Leu Glu Arg His Pro Phe Thr
145     150     155     160
Thr Gln Thr Phe Thr Pro Leu Asp Leu Ser Asn Gln Pro Arg Ala Gly
      165     170     175
Asp Ala Glu Glu Pro Phe Tyr Leu Val Ile Val Ala Pro Thr Leu Lys
      180     185     190
Gly Gln Thr Ala Thr Ala Thr Thr Pro Ser Gly Asp Thr Val Ala Ile
      195     200     205
Arg Asp Pro Pro Asp Leu Asn Asn Met Arg Ala Phe Val Ala Arg Gly
      210     215     220
Gly Gln Ala Val Thr Tyr Gly Val Gly Thr Trp His Ala Pro Met Val
225     230     235     240
Val Leu Gly Pro Arg Arg Val Asp Phe Val Val Val Gln Phe Val Asn
      245     250     255
Gly Val Asp Asp Glu Asp Val Gln Glu Ala Ala Phe Gly Glu Gly Ile
      260     265     270
Val Val Asp Leu Gly Arg Ser Arg Thr Ser Gly Ala Ser Lys Leu
      275     280     285

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<210> 32334
<211> 239
<212> PRT
<213> A.fumigatus

<400> 32334

```

Gly Arg His Pro Thr Val Lys Leu Gly Leu Glu Glu Gln Gly Arg Gln
1      5      10      15
Phe Val Ser Asn Asp Cys Phe Leu Gly Asp Ser Glu Arg Ile Trp Leu
      20      25      30
Ile Thr Gly Pro Asn Met Ala Gly Lys Ser Thr Phe Leu Arg Gln Asn
      35      40      45
Ala Leu Ile Thr Ile Leu Ala Gln Val Gly Ser Phe Val Pro Ala Glu

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50		55		60
Tyr Ala Glu Ile Gly Ile Val Asp Gln Ile Phe Ser Arg Ile Gly Ala				
65		70		80
Ala Asp Asp Leu Phe Arg Asp Gln Ser Thr Phe Met Val Glu Met Leu				
	85		90	95
Glu Thr Ala Thr Ile Leu Lys Gln Ala Thr Ala Arg Ser Phe Val Ile				
	100		105	110
Met Asp Glu Val Gly Arg Gly Thr Thr Pro Glu Asp Gly Thr Ala Val				
	115		120	125
Ser Phe Ala Cys Leu His His Leu His Tyr Arg Asn Lys Cys Arg Thr				
	130		135	140
Leu Phe Ala Thr His Phe His Ala Leu Ala Asp Met Thr Asp Asp Phe				
145		150		160
Glu Ala Leu Gly Arg Tyr Cys Thr Asp Val Lys Glu Ser Ala Ser Gly				
	165		170	175
Ser Phe Ser Phe Val His Arg Leu Arg Lys Gly Val Asn Arg Asn Ser				
	180		185	190
His Ala Leu Lys Val Ala Gln Leu Ala Gly Leu Pro Lys Glu Thr Leu				
	195		200	205
Glu Met Ala Ser Arg Val Arg Glu Ser Leu Gly Asn Arg Ala Pro Trp				
	210		215	220
Ser Ser Gly Gly Ser Asp Ser His Pro Ile Val Ser Ala Thr Val				
225		230		235

<210> 32335

<211> 271

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (235), (246), (271)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32335

Arg Lys Lys Glu Glu Phe Ser Phe Gln Tyr Val Pro Leu Arg Leu Val				
1		5		10
Ser His Ser Pro Leu Ser Ser Asn Thr Ile Ala Lys Asp Tyr His Ser				
	20		25	30
Leu Tyr Arg Trp Ser Thr Asp Asn Arg Ala Ser Phe Trp Asp Phe Cys				
	35		40	45
Trp Arg Tyr Phe Pro Ile Ile Ser Glu Gly Thr Tyr Arg Thr Val Val				
	50		55	60
Asp Glu Ser Ala Arg Ile Asp Ser Val Pro Thr Trp Phe Glu Gly Val				
65		70		80
Arg Leu Asn Phe Ala Glu Asn Met Leu Phe Ser Ala Glu Arg Ser Ser				
	85		90	95
Ser Gly His Ile Gln Ile Thr Thr Lys Gly Lys Glu Asp Asn Lys Ile				
	100		105	110
Ala Leu Thr Glu Ile Arg Glu Gly Gly Ala Glu Ala Pro Arg His Ile				
	115		120	125
Thr Trp Ala Glu Leu Arg Arg Lys Thr Gly Arg Met Val Gln Ala Leu				
	130		135	140
Lys Ala Ala Gly Val Val Lys Gly Asp Arg Val Ala Ala Val Ala Ser				
145		150		160
Asn Ser Val Asp Thr Leu Val Val Leu Leu Ala Thr Thr Ala Leu Gly				

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<210> 32336
<211> 320
<212> PRT
<213> A.fumigatus
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<400>	32336															
His	Ala	Tyr	Pro	Ser	Thr	Pro	Gly	Cys	Arg	Phe	Leu	Ser	Phe	Ile	Arg	
1				5					10					15		
Thr	Asp	Ile	Gly	Thr	Ala	Tyr	Ile	Lys	Ser	Leu	Leu	Asp	Gly	Asp	Phe	
			20					25					30			
Glu	Ala	Glu	Asn	Met	Thr	Phe	Leu	Glu	Leu	Leu	Leu	Ala	Phe	Ser	Thr	
		35					40					45				
Leu	Lys	Gln	Arg	Glu	Ile	Leu	Thr	Gln	Pro	Leu	Asn	Pro	Gln	Tyr	Ser	
	50					55					60					
Gln	Val	Leu	Thr	Leu	Ile	His	Ala	Leu	Leu	Lys	Ala	Pro	Gly	Tyr	Ala	
65					70					75					80	
Ala	Val	Asp	Asp	Leu	Ala	Ser	Pro	Leu	Ala	Ile	Glu	Trp	Trp	Thr	Glu	
				85					90					95		
Val	Ala	Asp	Asp	Phe	Gln	Glu	Ile	Ile	Ala	Asp	Ser	Asp	Asn	His	Phe	
			100					105					110			
Asn	Phe	Glu	Pro	Ala	Lys	Gln	Asn	Leu	Ala	Arg	Ala	Ala	Leu	Asp	Cys	
		115					120					125				
Phe	Glu	Lys	Leu	Lys	Tyr	Pro	Thr	Pro	Glu	Glu	Leu	Gln	Glu	Trp	Arg	
	130					135					140					
Asp	Asp	Asp	Arg	Ser	Glu	Phe	Ser	Ser	Phe	Arg	Arg	Asp	Ala	Cys	Asp	
145					150					155				160		
Phe	Ile	Leu	Ala	Val	Tyr	Pro	Ile	Leu	Gly	Val	Asp	Leu	Val	Arg	Val	
				165					170					175		
Phe	Gln	Glu	Arg	Thr	Arg	Thr	Ser	Leu	Ala	Glu	Gln	Asn	Trp	Arg	Thr	
			180					185					190			
Phe	Glu	Ala	Ala	Val	Phe	Cys	Ile	Ala	Gln	Leu	Ser	Glu	Ala	Val	Asp	
		195					200					205				
Asp	Asn	Gln	His	Ala	Asp	Asp	Cys	Leu	Asn	Ala	Ile	Phe	Phe	Cys	Asp	
	210					215					220					
Glu	Phe	Ala	His	Leu	Cys	Arg	Gly	Glu	Gly	Ile	Ser	Ile	Ser	Asp	Lys	
225					230					235				240		
Ala	Arg	Gln	Thr	Leu	Val	Asp	Met	Leu	Gly	Arg	Tyr	Gln	Ser	Tyr	Phe	
				245					250					255		
Glu	Arg	Thr	His	Ala	Leu	Leu	Pro	Leu	Ala	Arg	Ile	Pro	Leu	Phe	Ala	
		260						265					270			
Ser	Leu	Asp	Val	Ala	Ser	Cys	Ala	Pro	Ile	Gly	Phe	Gln	Val	Tyr	Phe	
		275					280					285				

12674

Phe Ile Leu Gln Phe Val Arg Lys Cys Phe Asp Phe Ser Ala Pro Ser
 290 295 300
 Ile Leu Asp Gln Phe Asp His Phe Val Thr Lys Arg Arg His Gln Ser
 305 310 315 320

<210> 32337
 <211> 428
 <212> PRT
 <213> A.fumigatus

<400> 32337
 Leu Phe Ser Ser Gln His Pro Gly Ser Ile Arg Ser Phe Arg His Lys
 1 5 10 15
 Ala Thr Pro Pro Val Met Thr Met Glu Lys Val Leu Glu Gly Ile Ala
 20 25 30
 Ala Ile Ile Gln Ala Leu Pro Thr Asp Glu Gly Lys Ala Gln Val Leu
 35 40 45
 Glu Arg Ile Leu Asp Tyr Leu Arg Gln Gln Ala Ile Val Ala Arg Asp
 50 55 60
 Glu Ala Ala Arg Asp Leu Ser Asp Ala Ala Tyr Ser Arg Ser Leu Leu
 65 70 75 80
 Val Leu Arg Cys Ile Ala Ser Ile Gly Lys Gly Leu Arg Thr Glu Thr
 85 90 95
 Glu Ile Val Leu Glu Ser Ser Asp Ser Ser Asn Gly Asp Ser His Ser
 100 105 110
 Leu Thr Phe Trp Asn Ser Gly Arg Gly Ala Asn Ala Gln Ser Leu Ile
 115 120 125
 Ile Gln Ser Met Gln Leu Leu Met Thr Glu Val Pro Arg Asp Ala Ser
 130 135 140
 Thr Ile Glu Ala Ala Cys Asp Ile Leu Lys Ala Gly Phe Thr Glu Lys
 145 150 155 160
 Ala Gly Pro Tyr Val Phe Pro Pro Met Val Thr Val Ser Phe Val Lys
 165 170 175
 Ser Ile Pro Leu Gly Ser Ala Gly Thr Asp Met Val Met Gly Thr Ala
 180 185 190
 Ser Ala Phe Leu Ala Ser His Ser Ala His Pro Glu His Ile Arg Glu
 195 200 205
 Glu Thr Val Ala Leu Ile Val His Val Tyr Glu Ser Ile Cys Gln Met
 210 215 220
 Gln Glu Met Pro Gly Phe Phe Asp Pro Glu Val Ala Asn Ser Gly Ile
 225 230 235 240
 Asp Phe Leu Thr Arg Leu Val Pro Lys Tyr Tyr Ser Val Leu Phe Ala
 245 250 255
 Leu Thr Ser Ala Pro Pro Pro Ser Gly Glu Ser Gly Thr Ser Arg Arg
 260 265 270
 Ser Val Leu Gln Thr Ile Leu Asp Phe Thr Leu Gln Ser Leu Gln Gly
 275 280 285
 Pro Glu Pro Leu Pro Leu Arg Ser Ala Ser Gln Phe Trp Val Ser Val
 290 295 300
 Leu Ser Leu Thr Thr Asp Pro Ser Glu Ala Asp Pro Val Gln Val Val
 305 310 315 320
 Ile Asn Glu Tyr Leu Pro Ser Leu Cys Arg Val Leu Ile Leu Gln Leu
 325 330 335
 Ala Gly Arg Cys Ala Arg Ser Asp Ile Glu His Leu Cys Asp Val Leu
 340 345 350
 Arg Lys Val Ile Phe Arg His Gln Gly Gln Ala Arg Leu His Leu Ser

12675

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      355              360              365
Ala Ala Leu Ser Ser Val Asp Ile Asp Val Ser His Glu Gly Gln Gly
      370              375              380
His Val Ser Pro Gln Glu Lys Glu Arg Leu Val Ser Ser Leu Ile Ala
385              390              395              400
Ala Arg Gly Leu Arg Ala His Thr Asn Gln Leu Ala Arg Gly Phe Trp
      405              410              415
Ile Lys Cys Arg Gly Ala Gly Phe Asp Tyr Ile Gly
      420              425

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<210> 32338
 <211> 165
 <212> PRT
 <213> A.fumigatus

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<400> 32338
Cys Gly Pro Thr Pro Ala Phe Arg Lys Lys Ser Asn Gln Ser Tyr Ser
1              5              10              15
Gly Pro Thr Asp Ala Pro Ala Arg Leu Ala Ser Asp Phe Gly Ser Asp
      20              25              30
Phe Trp Ala Arg Arg Arg Ile Ser Asp Arg Gly Leu Ser Ser Ser Lys
      35              40              45
Glu Thr Pro Val Ser Phe Ser Thr Tyr Ser Arg Ser Ser Ile Asp Ile
      50              55              60
Leu Gly Met Gly Thr Ala Ile Leu Thr Pro Leu Val Leu Trp Arg Trp
65              70              75              80
Ile Phe Pro Ser Cys Lys Pro Ile Asn Cys Ala Ser Thr Val Lys Asp
      85              90              95
Leu Val Arg Ser Val His Ser Leu Val Leu Val Gly Ser Gly Ser Val
      100              105              110
Ile Ser Phe Arg Cys Gly Phe Gln Ser Ile Met Gly Leu Gly Lys Ala
      115              120              125
Gly Glu Arg Thr Tyr Ser Ala Tyr Trp Arg Ser Cys Cys His Val Phe
      130              135              140
Cys Ala Ala Arg Asp Cys Gln Tyr Ser Leu Leu Pro Gly Ser Leu Ser
145              150              155              160
Phe Asp Arg Ala Ala
      165

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<210> 32339
 <211> 255
 <212> PRT
 <213> A.fumigatus

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<400> 32339
Ser Tyr Gly Ala Arg Gly Lys Lys Met Pro Thr Thr Leu Gly Ile Asn
1              5              10              15
Ile Ala Thr Gly Thr Ile Phe Ile Ser Pro Glu Gly Asp Gly Asp Met
      20              25              30
Gln Gly Trp Thr Ala Asp Arg Leu Thr His Tyr Ser Ile Glu Gly Lys
      35              40              45
His Val Phe Leu Asp Leu Val Arg Pro Ser Lys Ser Ile Asp Phe His
      50              55              60
Ala Gly Ala Lys Asp Thr Ala Arg Glu Ile Val Ser Ala Leu Gly Glu
65              70              75              80
Ile Tyr Gly Ala Tyr Arg Ala Glu Gly Leu Lys Glu Val Ile Ala Ala

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<210> 32340
<211> 168
<212> PRT
<213> A.fumigatus
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<210> 32341
<211> 323
<212> PRT
<213> A.fumigatus
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<400> 32341

Ala Pro Ala Ile Ser His Ala Lys Ala Leu Tyr Asp Tyr Thr Arg Gln
 1 5 10 15
 Thr Asp Glu Glu Val Ser Phe Ser Glu Asp Ala Glu Leu Val Val Tyr
 20 25 30
 Asp Thr Ser Asp Pro Asp Trp Thr Leu Val Gly Val Asn Gly Asp Phe
 35 40 45
 Gly Phe Ala Pro Ala Asn Tyr Ile Glu Val Gln Glu Gly Asp Thr Ser
 50 55 60
 Thr Ala Arg Pro Ser Leu Pro Ser Pro Ala Ala Val Glu Pro Ser Ala
 65 70 75 80
 Pro Ala Leu Pro Gln Arg Pro Val Glu Val Pro Thr Gln Glu Pro Val
 85 90 95
 Ala Pro Ala Ser Thr Ser Ser Pro Ile Asp Thr Ile Gln Asn Pro Ala
 100 105 110
 Ala Ala Ala Ile Ala Asp Ile Ile His Lys Gln His Ala Ser Pro Val
 115 120 125
 Glu Ser Glu Pro Ser Arg Asp Ile Pro Pro Pro Gln Thr Gln Arg Pro
 130 135 140
 Ser Gln Arg Pro Glu Asp Ser Tyr Gln Arg Glu Pro Ser Pro Pro Pro
 145 150 155 160
 Pro Thr Leu Pro Gln Arg Pro Pro Ser Gln Gln Ile Ser Pro Pro Val
 165 170 175
 Asp Arg Tyr Ser Pro Pro Glu Pro Ser Pro Pro Leu Arg Pro Gln His
 180 185 190
 Ala Thr Val Arg Glu His Asp Gly Gln Gly His Val Arg Glu Ser Pro
 195 200 205
 Pro Tyr Asn Arg Ile Gly Gln Ser Thr Pro Arg Ser Pro Ser Gly Tyr
 210 215 220
 His Leu Tyr Asn Ile Asn Glu Met Val Glu Val Met Gly Gln Glu Gly
 225 230 235 240
 Arg Arg Cys Gln Arg His Trp Ala Leu Thr Ser Arg Leu Glu Arg Ser
 245 250 255
 Leu Ser His Gln Lys Gly Thr Ala Thr Cys Lys Asp Gly Leu Gln Ile
 260 265 270
 Asp Ser Pro Ile Thr Leu Leu Lys Ala Ser Met Ser Ser Ser Ile Trp
 275 280 285
 Phe Gly Pro Ala Lys Ala Leu Ile Phe Met Leu Glu Pro Arg Thr Pro
 290 295 300
 Leu Glu Arg Leu Phe Pro Arg Trp Val Lys Phe Met Gly Pro Thr Val
 305 310 315 320
 Pro Arg Ala

<210> 32342

<211> 306

<212> PRT

<213> A.fumigatus

<400> 32342

Asn Pro His Leu Asn Glu Ile Thr Glu Pro Asp Pro Thr Lys Thr Arg
 1 5 10 15
 Leu Trp Thr Asp Arg Thr Lys Ser Phe Thr Val Glu Ala Gln Phe Ile
 20 25 30
 Gly Leu Gln Asp Gly Lys Ile His Leu His Lys Thr Asn Gly Val Lys
 35 40 45

Ile Ala Val Pro Ile Pro Lys Met Ser Ile Glu Asp Leu Glu Tyr Val
 50 55 60
 Glu Lys Leu Thr Gly Val Ser Leu Asp Glu Asp Lys Pro Leu Ser Asp
 65 70 75 80
 Ile Arg Arg Arg Ala Gln Lys Ser Glu Pro Lys Ser Glu Ala Asn Arg
 85 90 95
 Ala Gly Ala Ser Val Gly Pro Glu Tyr Asp Trp Phe Asp Phe Phe Leu
 100 105 110
 Lys Ala Gly Val Gly Pro His Gln Cys Glu Arg Tyr Ala Gln Asn Phe
 115 120 125
 Ile Lys Asp Ser Met Asp Glu Ala Ile Leu Pro Asp Ile Thr Ser Glu
 130 135 140
 Asn Leu Arg Thr Leu Gly Leu Lys Glu Gly Asp Ile Leu Arg Val Met
 145 150 155 160
 Arg His Leu Asp Asn Met Phe Gly Arg Thr Gly Ser Lys Ser Lys Leu
 165 170 175
 Arg Asn Val Ser Phe Gly Gly Glu Glu Val Ile Ser Asn Gly Glu Ala
 180 185 190
 Gly Ser Pro Gly Gly Leu Phe Ser Gly Pro Gly Gly Val Leu Arg Asn
 195 200 205
 Asn Thr Arg Lys Gly Arg Pro Ala Pro Ala Val Gln Thr Gly Asp Val
 210 215 220
 Val Asp Pro Lys Ala Phe Glu Gln Lys Glu Asp Ala Pro Asn Pro Gln
 225 230 235 240
 Glu Arg Thr Gly Thr Pro Pro Ala Ser Ala Ala Val Glu Lys Pro Val
 245 250 255
 Gln Arg Gly Phe Asp Asp Asp Ala Trp Glu Val Lys Gln Pro Lys Gln
 260 265 270
 Pro Ala Ser Ser Ala Pro Pro Ser Ser Pro Pro Pro Ala Thr Ala
 275 280 285
 Pro Pro Gly Tyr Asn Pro Ser Ser Ser Ala Lys Thr Thr Tyr Trp Gly
 290 295 300
 Asn Gly
 305

<210> 32343

<211> 268

<212> PRT

<213> A.fumigatus

<400> 32343

Phe Leu Ser Ser Val Leu Phe Ala Arg Arg Ile Ala Asp Leu Asp Arg
 1 5 10 15
 Tyr Val Ser Cys Ile Phe Ser Asp Pro Phe Asp Gly Pro Thr Glu Pro
 20 25 30
 Ser Ala Val Leu His Cys Val Gln Glu Leu Leu Asp Met Gly Cys Tyr
 35 40 45
 Glu Val Ser Leu Gly Asp Thr Leu Gly Val Gly Asn Pro Gly Lys Val
 50 55 60
 Arg Ser Leu Leu His Tyr Leu Ala Asp His His Ile Pro Leu Asp Lys
 65 70 75 80
 Met Ala Gly His Phe His Asp Thr Tyr Gly Gln Ala Val Ala Asn Val
 85 90 95
 Trp Glu Ala Tyr Asn Cys Gly Val Arg Val Phe Asp Ser Ser Val Gly
 100 105 110
 Gly Leu Gly Gly Cys Pro Tyr Ala Pro Gly Ala Lys Gly Asn Val Ala

115	120	125
Thr Glu Asp Leu Val Tyr Met Phe Glu Thr Ala Gly Ile Asn Thr Gly		
130	135	140
Val Asp Leu Arg Lys Leu Val Glu Thr Gly Val Trp Ile Ser Arg Arg		
145	150	155
Leu Ser Lys Thr Asn Ala Ser Arg Ala Gly Thr Ala Leu Ala Ala Lys		
	165	170
		175
Tyr Gly Leu Val Pro Phe Lys Arg Ser Ser Ser Ser Arg Thr Thr Thr		
	180	185
		190
Lys Asn Gln Ile Phe Trp Thr Val Val Lys Asp Pro Asn Gly Ser Leu		
	195	200
		205
Ala Tyr Arg Ser Gly Val Asn Val Lys Pro Ile Ile Asp Arg Leu Lys		
	210	215
		220
Arg Arg Asn Val Phe Thr Ser Ser Gly Ser Ser Lys Thr Pro Arg Pro		
225	230	235
Thr Pro Pro Ser Ser Asp Ser Ser Ser Gln Glu Arg Glu Gly Ser Phe		
	245	250
		255
Leu Gln Ala Trp Ile Ser Thr Arg Thr Val His Leu		
	260	265

<210> 32344

<211> 94

<212> PRT

<213> A.fumigatus

<400> 32344

Ser Ala Val Pro Ser Ser Pro Gly Val Lys Thr Arg Asp Val Leu Gly		
1	5	10
		15
Asn Glu Ser Ile Arg Gln Leu Gln Gly Thr Pro Asp Leu Arg Leu Pro		
	20	25
		30
Val Leu Val Pro Asn Val Lys Gly Leu Asp Ile Ala Ile Glu His Gly		
	35	40
		45
Ala Lys Glu Val Ala Val Phe Val Ser Ala Thr Glu Gly Phe Ser Lys		
	50	55
		60
Ala Asn Ile Asn Cys Thr Val Gln Gln Gly Leu Glu Arg Ala Lys Ala		
65	70	75
		80
Val Ala Lys Lys Ala Thr Glu Cys Gly Ile Thr Val Arg Gly		
	85	90

<210> 32345

<211> 184

<212> PRT

<213> A.fumigatus

<400> 32345

Thr Asp Ser Ile Leu Asp Val Ser Leu Gln Thr Ser Ile Pro Asp Ile		
1	5	10
		15
Tyr Ala Ile Gly Glu Cys Ala Ser Trp Glu Asn Gln Thr Phe Gly Ile		
	20	25
		30
Ile Ala Pro Gly Ile Glu Met Ala Asp Val Leu Ser Phe Asn Leu Thr		
	35	40
		45
Asn Pro Asp Lys Glu Pro Lys Ser Phe Lys Arg Pro Asp Leu Ser Thr		
	50	55
		60
Lys Leu Lys Leu Leu Gly Val Asp Val Ala Ser Phe Gly Asp Phe Phe		
65	70	75
		80
Ala Asp Arg Asp Gly Pro Lys Phe Leu Pro Gly Gln Arg Pro Ser Ile		

12680

85								90				95			
Val	Asp	Gly	Ser	Val	Gly	Asn	Ala	Asp	Gly	Asp	Lys	Glu	Pro	Ser	Val
100								105				110			
Lys	Ala	Leu	Thr	Tyr	Lys	Asp	Pro	Phe	Ala	Gly	Ile	Tyr	Lys	Lys	Tyr
115								120				125			
Leu	Phe	Thr	Met	Asp	Gly	Lys	Tyr	Leu	Leu	Gly	Gly	Met	Met	Ile	Gly
130								135				140			
Asp	Thr	Lys	Asp	Tyr	Val	Lys	Leu	Asn	Gln	Met	Val	Lys	Ser	Gln	Lys
145								150				155			
Pro	Leu	Glu	Val	Pro	Pro	Ser	Gln	Phe	Ile	Leu	Gly	Ala	Gln	Lys	Glu
165								170				175			
Gly	Glu	Glu	Asn	Ala	Asp	Asp	Leu								
180															

<210> 32346

<211> 60

<212> PRT

<213> A.fumigatus

<400> 32346

Pro	Pro	Val	Leu	Ser	Asn	Ser	Glu	Lys	Ile	Val	Lys	Gln	Asp	Ala	Glu
1				5					10					15	
Arg	Arg	Lys	Tyr	Asp	Ile	Val	Val	Ile	Gly	Glu	Glu	Pro	His	Ile	Ala
			20					25					30		
Tyr	Asn	Arg	Val	Gly	Leu	Ser	Ser	Phe	Phe	Glu	His	Arg	Lys	Ile	Glu
		35					40					45			
Asp	Leu	Tyr	Leu	Asn	Pro	Lys	Glu	Trp	Val	Ser	Thr				
	50					55					60				

<210> 32347

<211> 104

<212> PRT

<213> A.fumigatus

<400> 32347

[illegible]

<210> 32348

<211> 184

<212> PRT

<213> A.fumigatus

<400> 32348

12681

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Tyr Gly Ser Phe Lys Asp Arg Ser Phe Asp Tyr His Leu Asn Thr Lys
1          5          10          15
Val Thr Asp Ile Phe Pro Glu Arg Lys Thr Val Arg Thr Ser Thr Gly
          20          25          30
Asp Val Ile Pro Tyr Asp Ile Leu Val Leu Ala Thr Gly Ser Asp Ala
          35          40          45
Val Leu Pro Thr His Thr Pro Gly Tyr Asn Ala Lys Gly Ile Phe Val
          50          55          60
Tyr Arg Thr Ile Gln Asp Leu Glu Arg Leu Ile Glu Phe Ala Ser Lys
65          70          75          80
His Lys Gly Glu Thr Ala Val Thr Val Gly Gly Gly Leu Leu Gly Leu
          85          90          95
Glu Ala Ala Lys Ala Met Thr Asp Leu Glu Asp Phe Gly Arg Val Lys
          100          105          110
Leu Ile Asp Arg Asn Lys Trp Val Leu Ala Arg Gln Leu Asp Gly Asp
          115          120          125
Ala Gly Thr Leu Val Thr Arg Lys Ile Arg Glu Leu Gly Leu Asp Val
          130          135          140
Leu His Glu Lys Arg Val Ala Lys Ile Lys Thr Asp Asp Asp Asn Asn
145          150          155          160
Val Thr Gly Ile Thr Phe Glu Asp Gly Glu Glu Ile Asp Cys Cys Cys
          165          170          175
Ile Cys Phe Ala Val Ser Arg Ser
          180

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<210> 32349

<211> 99

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (12)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32349

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Leu Val Ser Phe Gly Leu Ala Cys Trp Thr Gly Xaa Gly Thr Asp Thr
1          5          10          15
Asn Ile Asn Arg Asp Asp Asp Ala Gln Ile Cys Ser Cys His Asn Val
          20          25          30
Thr Lys Gly Asp Ile Val Glu Asn Val Lys Ser Gly Thr Cys Lys Thr
          35          40          45
Ile Gly Glu Ile Lys Ser Cys Thr Lys Ala Gly Ser Gly Cys Gly Gly
          50          55          60
Cys Met Pro Leu Val Gln Ser Ile Phe Asn Lys Ala Met Arg Asp Met
65          70          75          80
Gly Gln Glu Val Ser Asn His Arg Lys Ser Ser Pro Pro Gly Trp Lys
          85          90          95
Val Thr Arg

```

<210> 32350

<211> 66

<212> PRT

<213> A.fumigatus

<400> 32350

Ser Leu Ala Ser Leu Glu Pro Arg His Ser Met Pro Ser Gly Glu Leu
 1 5 10 15
 Pro Arg Gly Leu Arg Ala Gly Trp Ile Lys Lys Met Ala Ser Ala Asn
 20 25 30
 Gly Glu Ala Ser Ser Met Ala Asn Ile Ala Gly Tyr Lys Ala Val Leu
 35 40 45
 Glu Ala Ser Asn His Phe Gly Arg Phe Leu Thr Gly Gln Val Thr Ala
 50 55 60
 Ala Gly
 65

<210> 32351

<211> 173

<212> PRT

<213> A.fumigatus

<400> 32351

Val Gly Ala Gln Pro Ser Pro Asp Val Ser Lys Leu Met Leu Thr Ile
 1 5 10 15
 Ser Gly Tyr Thr Asp Phe Pro Ser Arg Leu Pro Thr Gln Ala Ser Thr
 20 25 30
 Leu Tyr Ser Asn Asn Ile Ala Lys Phe Leu Leu Ser Met Ala Pro Gln
 35 40 45
 Glu Lys Ser Phe Gly Ile Asp Leu Ser Asp Glu Val Val Arg Gly Ser
 50 55 60
 Ile Val Thr Leu Asn Gly Ala Ile Leu Pro Pro Ala Pro Arg Pro Ala
 65 70 75 80
 Pro Pro Pro Pro Lys Pro Ala Ala Ala Ala Thr Pro Ala Lys Glu Gln
 85 90 95
 Ala Glu Leu Ser Leu Thr Pro Trp Gln Lys Ala Thr Arg Asp Val Ala
 100 105 110
 Thr Val Thr Ala Gly Met Gly Thr Ala Leu Ala Leu Gly Lys Ala Thr
 115 120 125
 Gly Pro Ile Phe Met Ser Asn Met Met Thr Phe Gly Leu Ala Gly Leu
 130 135 140
 Val Gly Tyr Arg Ala Val Trp Gly Val Ala Pro Ala Leu His Ser Pro
 145 150 155 160
 Leu Met Ser Val Thr Asn Ala Ile Ser Gly Glu Gln Ala
 165 170

<210> 32352

<211> 61

<212> PRT

<213> A.fumigatus

<400> 32352

Ser Thr Tyr Arg Pro Leu Gly Pro Thr Asp Pro Pro Glu Tyr Pro Trp
 1 5 10 15
 Leu Tyr Ala Ile Pro Ala Val Ile Phe Ser Gly Gly Phe Ile Ala Ala
 20 25 30
 Ala Ser Thr Gly Met Ala Gly Leu Val Ser Ala Gly Tyr Leu Val Ser
 35 40 45
 Thr Leu Leu Cys Ile Ser Lys Trp Asn Cys Gly Ile Leu
 50 55 60

<210> 32353
 <211> 88
 <212> PRT
 <213> A.fumigatus

<400> 32353
 Ser Val Ser Tyr Ala Cys Val Ala Gly Leu Val Tyr Gly His Tyr Met
 1 5 10 15
 Ile Leu Ala His Asn Phe Thr Gly Ala Leu Ile Gly Arg Arg Ile Thr
 20 25 30
 Pro Thr Ser Leu Pro Gln Thr Val Ala Ala Leu His Ser Val Val Gly
 35 40 45
 Val Ala Ala Val Leu Thr Ser Ile Glu Ser Val Met Ala Asp Ile Gly
 50 55 60
 Asp Ile Ser Thr Leu His Met Val Thr Ala Tyr Leu Gly Val Leu Ile
 65 70 75 80
 Gly Ile Ser Ser Asp Ser Gly Ala
 85

<210> 32354
 <211> 88
 <212> PRT
 <213> A.fumigatus

<400> 32354
 Ala Arg Arg Leu Gly Ala Ile Val Arg Gly Phe Asp Thr Arg Ser Ala
 1 5 10 15
 Ala Arg Glu Gln Val Gln Ser Leu Gly Ala Glu Phe Ile Glu Val Asp
 20 25 30
 Ile Gln Glu Glu Gly Ala Gly Gln Gly Gly Tyr Ala Lys Glu Met Ser
 35 40 45
 Lys Glu Phe Tyr Asp Ala Glu Met Lys Leu Phe Met Glu Gln Ala Arg
 50 55 60
 Asp Val Asp Ile Ile Ile Thr Thr Ala Leu Ile Pro Gly Lys Ala Ala
 65 70 75 80
 Pro Lys Leu Ile Thr Lys Glu Val
 85

<210> 32355
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 32355
 His Pro His Ala Trp Thr Leu Gly Met Val Gly Ile Gly Gly Leu Phe
 1 5 10 15
 Ile Met Gly Gly Gly Tyr Thr Pro Ser Thr Ile Pro Glu Ala Leu Gly
 20 25 30
 Ala Val Ser Val Leu Leu Ala Ser Met Asn Val Ala Gly Gly Phe Val
 35 40 45
 Ile Thr Lys Arg Met Leu Asp Met Phe Lys Arg Gln Ser Phe Thr Pro
 50 55 60
 Ile Glu Asp Glu Ala Leu Thr Val Leu
 65 70

<210> 32356

12684

<211> 61
<212> PRT
<213> A.fumigatus

<400> 32356
His Tyr Val Ala Val Val Ile Thr Val Leu Asn Ala Tyr Ser Gly Phe
1 5 10 15
Ala Leu Val Ala Glu Gly Phe Met Leu Asn Asn Pro Leu Leu Thr Ser
20 25 30
Val Gly Ser Leu Ile Gly Val Ser Gly Ser Ile Leu Ser Tyr Ile Met
35 40 45
Val Arg Val Phe Met Cys Leu Phe Ala Asp His Ala Asp
50 55 60

<210> 32357
<211> 154
<212> PRT
<213> A.fumigatus

<400> 32357
Arg Pro Gly Thr Ser Ala Pro Ser Asp Val Pro Val Val Pro Tyr Ser
1 5 10 15
Ser Leu Thr Val Gly Val Pro Ser Glu Thr Trp Pro Asn Glu Arg Arg
20 25 30
Val Ala Leu Thr Pro Gln Asn Val Thr Leu Leu Leu Lys Lys Gly Phe
35 40 45
Ser Arg Val Leu Val Glu Arg Gly Ala Gly Glu Gln Ala Gln Ile His
50 55 60
Asp Gln Ala Tyr Glu Gln Val Gly Ala Thr Leu Val Asp Arg Ala Ala
65 70 75 80
Val Trp Ser Glu Ser Asn Ile Val Leu Lys Val Arg Ser Pro Arg Gln
85 90 95
Glu Gly Pro Ile Asp Glu Val Glu Ala Leu Arg Gln Gly Ser Thr Leu
100 105 110
Ile Ser Phe Leu Tyr Pro Ala Gln Asn Lys Leu Leu Val Glu Ala Ile
115 120 125
Ala Ser Arg Gly Val Thr Ala Phe Ala Met Asp Met Ile Pro Arg Ile
130 135 140
Ser Arg Ala Gln Thr Phe Asp Ala Leu Arg
145 150

<210> 32358
<211> 103
<212> PRT
<213> A.fumigatus

<400> 32358
Arg Trp Thr Gly Gly Val Thr Phe Thr Gly Ser Ile Val Ala Phe Leu
1 5 10 15
Lys Leu Ala Gly Arg Met Ser Ser Lys Pro Thr Ile Leu Pro Gly Arg
20 25 30
His Val Ile Asn Ser Thr Leu Leu Gly Thr Asn Met Ala Thr Met Gly
35 40 45
Ala Phe Val Ser Met Gly Pro Ala Ser Pro Leu Ile Ala Ala Thr Cys
50 55 60
Leu Gly Ala Asn Thr Met Leu Ser Phe Leu Lys Gly Tyr Thr Thr Thr

12685

65 70 75 80
 Ala Ala Ile Gly Gly Ala Asp Met Arg Met Ser Leu Arg Leu Thr Leu
 85 90 95
 Glu Lys Val Thr Asn Ile Met
 100

<210> 32359

<211> 142

<212> PRT

<213> A.fumigatus

<400> 32359

Pro Thr Arg Pro Ala Ser Pro Lys Val Ile Met Leu Leu Met Asn Met
 1 5 10 15
 Gly Pro Val Ala Phe Pro Arg Ala Ser Ala Val Pro Ile Pro Ala Val
 20 25 30
 Thr Val Ala Thr Ser Arg Val Ala Phe Cys Gln Gly Val Ser Asp Asn
 35 40 45
 Ser Ala Cys Ser Leu Ala Gly Val Ala Ala Ala Gly Phe Gly Gly
 50 55 60
 Gly Gly Ala Gly Arg Gly Ala Gly Gly Ser Ile Ala Pro Leu Arg Val
 65 70 75 80
 Thr Ile Glu Pro Arg Thr Thr Ser Ser Asp Arg Ser Ile Pro Lys Asp
 85 90 95
 Phe Ser Cys Gly Ala Met Asp Arg Arg Asn Leu Ala Ile Leu Phe Glu
 100 105 110
 Tyr Arg Val Asp Ala Cys Val Gly Arg Arg Asp Gly Lys Ser Val Tyr
 115 120 125
 Pro Glu Met Val Ser Met Ser Leu Leu Thr Ser Gly Glu Gly
 130 135 140

<210> 32360

<211> 77

<212> PRT

<213> A.fumigatus

<400> 32360

Arg Asn Ser Leu Tyr Gln Lys Leu Ile Leu Gly Arg Ile Gln Glu Arg
 1 5 10 15
 Asn Gln Gly Ala Ser Leu Ser Glu Gly Phe Asp Phe Ile Tyr Gly Ala
 20 25 30
 Leu Leu Ser Arg Thr Thr Asp Phe Gln Asp Asp Ile Thr Phe Gly Pro
 35 40 45
 Tyr Ser Ser Ser Val Asp Gln Gly Ser Ser Asp Leu Phe Val Gly Leu
 50 55 60
 Val Met Asp Leu Gly Leu Phe Ala Gly Thr Ala Leu Asp
 65 70 75

<210> 32361

<211> 580

<212> PRT

<213> A.fumigatus

<400> 32361

Lys Leu Ile Gly Leu Leu Ser Ala Val Leu Leu Gln Ile Tyr Ile Ile
 1 5 10 15

Trp Ser Leu Ser Leu Gln Gly Glu Arg Leu Gln Val Pro Ser Thr Arg
 20 25 30
 Arg Phe Ala Arg Tyr His Ser Ser Leu Gln Val His Ile Ala Cys Leu
 35 40 45
 Gln Ser Gly Ser Phe Leu Ser Leu Ile Glu Met Asp Pro Gly His Pro
 50 55 60
 Pro Thr Asn Gly Asn Gly Cys Phe Gln Asp Ala Ser Val Ser Ser Tyr
 65 70 75 80
 Gln Ala Glu Arg Thr Ile Asn Ile Ser Ala Leu Ser His Glu Ala Ile
 85 90 95
 Cys Asp Arg Ile Arg Gln Ser Leu Val Glu Val Ser Ser Gly Leu Val
 100 105 110
 Ala Asp Lys Ile His Phe Thr Ser Thr Cys Gly Gln His Val Ser Ala
 115 120 125
 Val Arg Ser Arg Val Glu Asp Ala Leu Ile Asp Ala Leu Ala Ser Pro
 130 135 140
 Tyr Arg Trp Ala Val Arg Pro Tyr Trp Val Gln Asp His Glu Pro Gly
 145 150 155 160
 Leu Ile Leu Leu Ser Thr Arg Gln Tyr Asn Thr Tyr Glu Ser Ser Phe
 165 170 175
 Asn Gly Leu Leu Arg Ala Val Ser Asp Met Glu Asn Leu Val Pro Thr
 180 185 190
 Ala Asp Thr Leu Tyr Arg Leu Ala Asn Glu Leu Asp Asn Arg Ser Leu
 195 200 205
 Arg Ser Ile Leu Pro Glu Lys Ala Arg Ile Leu Glu Lys Lys Leu Met
 210 215 220
 Ser Ile Ser His Ser Asn Ser Leu Leu Leu Ala Thr Leu Ala Ala Glu
 225 230 235 240
 Ile Leu Thr Tyr Gln Gly Ile Pro Thr Leu Pro Met Lys Ala Ile Met
 245 250 255
 Gln Leu Gln Gln Arg Ala Gly Ser Ser Val Asp Leu Asn Gly Tyr Pro
 260 265 270
 Arg His Ala Ala Ala Thr Phe Glu Lys Arg Ile Lys Val Asp Asp Tyr
 275 280 285
 Asn Phe Phe Glu Leu Val His Pro Ala Tyr Phe Arg Gln Thr Val Ala
 290 295 300
 Leu Ala Gln Leu Val Thr Lys Phe Ile Lys Asn Pro Cys Pro Arg Ala
 305 310 315 320
 Val Asp Val Gly Pro Gly Pro Gly Thr Asn Leu Leu Ala Phe Leu Glu
 325 330 335
 Leu Leu Pro Gln Thr Lys Val Leu Ala Val Glu Pro Ser Asp Ile Ala
 340 345 350
 Phe Gln Tyr Leu Ile Asp His Phe Lys Gly Gln Ser Asn Ile Thr Cys
 355 360 365
 Val Gln Lys Asp Phe Leu Cys Val Pro Val Glu Leu Asp Glu Val Asp
 370 375 380
 Tyr Ile Met Ser Thr Gly Ser Ser His His Phe Tyr Thr Asp Gly Phe
 385 390 395 400
 Leu Gln Arg Ser Ala Gln Trp Leu Arg Arg Gly Ser Tyr Trp Phe Ile
 405 410 415
 Ala Asp Glu Met Ile Ser Pro Phe Glu Thr Arg Arg Glu Arg His Leu
 420 425 430
 Asn Leu Leu Arg His His Leu Ala Tyr Met Val Pro Leu Cys Phe Pro
 435 440 445
 Trp Pro Ala Gly Asp Val Asp Pro Arg Thr Arg Ala Glu Arg Glu Phe
 450 455 460

12687

Val Asp Asp Phe Asn Asn Thr Val Pro Leu Ala Lys Phe Leu Ala Asp
 465 470 475 480
 Thr Gly Arg Val Asp Ala Ala Glu Ser Leu Cys Arg Glu Leu Leu Ser
 485 490 495
 Arg Ala Glu Arg His Gly Phe Thr Thr Lys Val Ser Asp Pro His Leu
 500 505 510
 Ala Phe Trp Arg Leu Gln Trp Leu Glu Leu Gln Ala Leu Val Ala Gly
 515 520 525
 Leu Asp Tyr Glu Val Glu Gln Lys Thr Tyr Pro Trp His Phe Ile Lys
 530 535 540
 Met Ala Glu Gly Ala Gly Leu Lys Cys Val Ala His Gln Arg Val Tyr
 545 550 555 560
 Gly Thr Val Gly Leu Thr Asp Asp Cys Ala Gly Thr His Val Met Ala
 565 570 575
 Phe Gln Lys Ala
 580

<210> 32362

<211> 240

<212> PRT

<213> A.fumigatus

<400> 32362

Val Lys Ser Ser Ala His Lys Phe Ile Glu Ala Lys Ala Thr Phe Pro
 1 5 10 15
 His Val Val Asp Asp Ala Gln Ile Ile Ser Tyr Leu Met Ile Asn Met
 20 25 30
 Ile Ala Gly Ala Asp Thr Thr Ala Ile Thr Leu Asn Ala Ala Leu Tyr
 35 40 45
 Phe Ala Leu Lys Asn Pro Ala Val Trp Lys Arg Leu Gln Glu Glu Thr
 50 55 60
 Ala Ser Leu His Cys Glu Gly Ser Pro Ile Val Pro Phe Lys Thr Ala
 65 70 75 80
 Gln Asp Leu Pro Tyr Leu Asn Ala Val Ile Arg Glu Ala Met Arg Met
 85 90 95
 His Pro Gly Val Ala Met Cys Leu Glu Arg Tyr Val Pro Asp Glu Gly
 100 105 110
 Leu Thr Leu Pro Gly Gly Gln Phe Ile Pro Gly Gly Cys Ile Val Gly
 115 120 125
 Met Asn Pro Tyr Val Leu Ala Arg Asn Gln Ser Val Trp Gly Glu Asp
 130 135 140
 Ala Asp Val Phe Arg Pro Glu Arg Trp Leu Arg Asp Pro Thr Arg Glu
 145 150 155 160
 Thr Glu Glu Ala Tyr Gln Glu Arg Leu Lys Arg Met Asn Ala Ala Asp
 165 170 175
 Leu Thr Phe Gly Ala Gly Ser Arg Val Cys Ile Gly Arg Asn Leu Gly
 180 185 190
 Met Met Glu Val Tyr Lys Val Val Ala Met Leu Val Ser Arg Tyr Glu
 195 200 205
 Ile Glu Leu Val Asp Pro Lys Gly Glu Trp Lys Thr His Asn Ser Phe
 210 215 220
 Phe Val Arg Gln Glu Gly Ile Glu Val Arg Leu Arg Arg Arg Ser Thr
 225 230 235 240

<210> 32363

<211> 200

12688

<212> PRT

<213> A.fumigatus

<400> 32363

```

Val His Arg Ser Lys Ser His Val Pro Pro Cys Gly Arg Arg Arg Ser
1      5      10      15
Asp His Leu Leu Pro Asp Asp Gln His Asp Cys Arg Arg Gly His His
20      25      30
Arg His His Pro Gln Arg Gly Ala Val Leu Cys Ala Gln Glu Pro Arg
35      40      45
Arg Val Glu Thr Thr Ala Gly Gly Asp Cys Ile Ala Pro Leu Arg Gly
50      55      60
Ile Thr His Arg Thr Ile Gln Asn Gly Ala Gly Pro Ala Leu Pro Gln
65      70      75      80
Arg Gly His Pro Arg Gly His Ala His Ala Pro Arg Arg Arg His Val
85      90      95
Ser Gly Ala Leu Arg Ala Gly Arg Arg Pro His Pro Ser Arg Arg Pro
100     105     110
Val His Pro Arg Arg Met His Arg Arg His Glu Pro Leu Arg Ala Arg
115     120     125
Pro Gln Pro Val Gly Leu Gly Arg Gly Arg Arg Arg Leu Pro Ala Arg
130     135     140
Ala Leu Ala Ser Arg Pro His Pro Arg Asp Arg Gly Gly Val Pro Gly
145     150     155     160
Ala Ser Gln Ala Asp Glu Arg Gly Gly Ser Asp Leu Trp Cys Gly Glu
165     170     175
Pro Gly Val His Trp Thr Glu Leu Gly Asp Asp Gly Gly Val Gln Gly
180     185     190
Arg Gly His Ala Gly Leu Glu Val
195     200

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<210> 32364

<211> 61

<212> PRT

<213> A.fumigatus

<400> 32364

```

Gln Ala Ala Gly Leu Leu Val Asp Phe Leu Leu His Val Leu Ala Ile
1      5      10      15
Leu Phe Ala Thr Thr Phe Phe Leu Phe Gly Ala Ser Ser Ser Gln Ser
20      25      30
Pro Ser Asn Ile Ser Arg Ser Ala Asp Thr Pro Leu Tyr Glu Thr Ser
35      40      45
Ser Asp Pro Arg Gln Ser Glu Thr Ser Ser Pro Val Arg
50      55      60

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<210> 32365

<211> 90

<212> PRT

<213> A.fumigatus

<400> 32365

```

Met Asp Pro Asp Tyr Lys Ala Arg Lys Glu Ala Phe Val Ser Gly Leu
1      5      10      15
Ala Gly Gly Ser Ile Leu Glu Ile Asn Ala Val Thr Leu Val Ala Ser
20      25      30

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12689

Val	Arg	Val	Thr	Ile	Leu	Leu	Trp	Leu	Leu	Arg	Leu	His	Cys	Phe	Ser
		35					40					45			
Thr	Asn	Arg	Val	Ser	Leu	Arg	Ser	Ile	Arg	Tyr	Pro	Phe	Phe	Cys	Gly
	50					55					60				
Gln	Phe	Tyr	Asn	Leu	Ala	Tyr	Pro	Phe	Ser	Gln	Pro	Asn	Arg	Pro	Leu
65					70					75					80
Ala	Phe	Ser	Leu	Ile	Ser	Cys	Ser	Met	Tyr						
				85					90						

<210> 32366

<211> 391

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (283)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32366

Leu	Ser	Cys	Ser	Gln	Pro	Leu	Phe	Phe	Ser	Ser	Ala	Pro	Leu	Leu	Leu
1				5					10				15		
Asn	Leu	Leu	Leu	Ile	Ser	Pro	Ala	Leu	Leu	Ile	Leu	Leu	Ser	Thr	Lys
			20					25					30		
Arg	Pro	Arg	Thr	Pro	Val	Lys	Ala	Lys	Pro	Pro	Arg	Gln	Ser	Ala	Arg
		35					40					45			
Ala	Gly	Lys	Asp	Asp	Ser	Lys	His	Ala	Thr	Ala	Leu	Pro	Glu	Ser	Leu
	50					55					60				
Pro	Ile	His	Pro	Phe	Leu	Thr	Thr	Tyr	Arg	Ala	Ala	Met	Met	Val	Ile
65					70				75						80
Thr	Cys	Ile	Ala	Ile	Leu	Ala	Val	Asp	Phe	Arg	Ile	Phe	Pro	Arg	Arg
				85				90						95	
Phe	Ala	Lys	Val	Glu	Asn	Trp	Gly	Thr	Ser	Leu	Met	Asp	Leu	Gly	Val
			100				105						110		
Gly	Ser	Phe	Val	Phe	Ser	Gly	Gly	Val	Val	Ser	Ala	Arg	Ser	Leu	Leu
		115				120						125			
Lys	Ser	Arg	Thr	Asn	Gly	Ser	Lys	Arg	Leu	Pro	Leu	Ala	Lys	Arg	Leu
		130			135						140				
Ile	Ala	Ser	Thr	Arg	His	Ser	Ile	Pro	Leu	Leu	Val	Leu	Gly	Leu	Ile
145					150					155					160
Arg	Leu	Tyr	Ser	Val	Lys	Gly	Leu	Asp	Tyr	Ala	Glu	His	Val	Thr	Glu
			165					170						175	
Tyr	Gly	Val	His	Trp	Asn	Phe	Phe	Phe	Thr	Leu	Gly	Leu	Leu	Pro	Pro
		180					185						190		
Phe	Val	Glu	Val	Phe	Asp	Ala	Leu	Ala	Thr	Ile	Ile	Pro	Ser	Tyr	Glu
		195				200						205			
Val	Leu	Ser	Val	Gly	Ile	Ala	Val	Leu	Tyr	Gln	Val	Ala	Leu	Glu	Ser
	210					215					220				
Thr	Asp	Leu	Lys	Ser	Tyr	Ile	Leu	Val	Ser	Pro	Arg	Gly	Pro	Ser	Leu
225					230					235					240
Leu	Ser	Lys	Asn	Arg	Glu	Gly	Val	Phe	Ser	Phe	Ser	Gly	Tyr	Leu	Ala
			245					250						255	
Ile	Phe	Leu	Ala	Gly	Arg	Ala	Ile	Gly	Ile	Arg	Ile	Ile	Pro	Arg	Gly
		260					265						270		
Thr	Ser	Phe	Ser	Arg	Ser	Pro	Glu	Gln	Ala	Xaa	Arg	Arg	Val	Leu	Ile
		275					280					285			

12690

Ser Leu Gly Val Gln Ala Leu Val Trp Thr Thr Leu Phe Val Leu Asn
 290 295 300
 Ser Thr Tyr Ala Met Gly Tyr Gly Ala Asn Ile Pro Val Ser Arg Arg
 305 310 315 320
 Leu Ala Asn Met Pro Tyr Val Leu Trp Val Ser Ala Phe Asn Thr Ala
 325 330 335
 Gln Leu Phe Val Phe Cys Leu Ile Glu Thr Leu Cys Phe Leu Ala Val
 340 345 350
 His Pro Thr Thr Thr Gln Glu Ser Glu Ser Glu Arg Val Asp Phe Ala
 355 360 365
 Thr Thr Arg Ile Leu Ser Ala Phe Asn Lys Asn Ser Leu Ala Ile Phe
 370 375 380
 Leu Leu Ala Asn Ser Pro Glu
 385 390

<210> 32367

<211> 607

<212> PRT

<213> A.fumigatus

<400> 32367

Ser Ser Met Met Asp Asp Ser Ile Ala Ser Ser Asp Pro Thr Met Glu
 1 5 10 15
 Glu His His Ile Val Lys Ala Asp Glu Val Asp Gln Thr Gly Thr Asp
 20 25 30
 Ile Thr Thr Val Ser Asp Asp Gln Leu Met Glu Glu Val Ala Gln Gly
 35 40 45
 Leu Arg Gln Glu Gln Ala Ser Lys Ala Thr Ser Ala Gly Pro Asn Glu
 50 55 60
 Ser Gln Glu Gln Arg Pro Asn Pro Ser Arg Arg Pro Glu Leu Arg Arg
 65 70 75 80
 Asn Val Ser Ala Pro Pro Pro Pro Leu Gln Pro Pro Pro Pro Ala Pro
 85 90 95
 Val Gln Gln Leu Pro Asp Arg Pro Pro Asp Ser Leu Ser Leu Ala Gln
 100 105 110
 Leu Lys Gln Ile Val Gln Asp Met Pro Lys Val Asn Gln Pro Ala Tyr
 115 120 125
 Ala Phe Glu Tyr Ala Asp Ser Gln Pro Leu Val Glu Glu Ile Glu Glu
 130 135 140
 Trp Phe Gln Tyr Ser Glu Phe Asp Arg Ile Met Leu Leu Gly Met Lys
 145 150 155 160
 Ser Thr Phe Glu Arg Lys Trp Ala Ser Phe Cys Glu Asn Gln Ser Ala
 165 170 175
 Val Ser Asp Arg Leu Pro Trp Leu Asp Ala Pro His Asp Leu Arg Lys
 180 185 190
 Ser Phe Met Glu Gln Ile Ile Asn Gly Leu Pro Asp Arg Asp Ile Ser
 195 200 205
 Ser Arg Thr Glu Ala Leu Glu Val Val Cys Tyr Ala Leu Thr Gly Ile
 210 215 220
 Trp Gly Ser Thr Ala Gly Lys Ala Val Pro Asp Tyr Pro Glu Asp Leu
 225 230 235 240
 Pro Pro Gln Ala Val Thr Asp Thr Pro Lys Ser Lys Ser Leu Gln Ile
 245 250 255
 Ile Trp Met Gln Arg Asn Ala Glu Leu Val Asn Glu Cys Ser Gly Leu
 260 265 270
 Gly Pro Leu Leu Ser Cys Leu Cys Lys Ala Leu Glu Lys Asn Arg Ser

275					280					285					
Ser	Tyr	Asn	Pro	Glu	Ser	Asp	Gly	Leu	Asp	Ser	His	Ser	Asp	Ser	Ala
290					295					300					
Asn	Val	Ala	Ala	Ser	Glu	His	Glu	Val	Asn	Leu	Val	Leu	Thr	Ala	Leu
305					310					315					320
Tyr	Ile	Val	Val	Glu	Ile	Gly	Arg	Arg	Gln	Glu	Lys	His	Ser	Gln	Asp
				325					330					335	
Val	Ser	Leu	Arg	Asp	Ala	Leu	Met	Gly	Leu	Lys	Pro	Asn	Leu	Ser	Val
			340					345					350		
Phe	Leu	Val	Glu	Val	Ile	Ala	Arg	Leu	Arg	Trp	Asp	Asp	Ser	Ala	Asn
	355					360					365				
Ile	Pro	Leu	Thr	Arg	Ile	Ile	Leu	Leu	Phe	Trp	Lys	Cys	Leu	Leu	Leu
	370					375					380				
Phe	Phe	Gly	Gly	Ser	Asp	Ser	Leu	Lys	Lys	Ala	Lys	Glu	Glu	Leu	Glu
385					390					395					400
Pro	Arg	Met	Glu	Ala	Arg	Glu	Asn	Ser	Pro	Asn	Arg	Arg	Thr	Pro	Phe
			405						410					415	
Leu	Thr	Ala	Ser	Pro	Leu	Asp	Tyr	His	Leu	Phe	Arg	Gln	Glu	Ile	Thr
			420					425					430		
Ser	Lys	Tyr	Pro	Ala	Tyr	Asn	Pro	Pro	Leu	Pro	Val	Val	Pro	Leu	Glu
	435					440					445				
Leu	Glu	Asn	Asn	Ser	Ile	Leu	Pro	Pro	Leu	Pro	Gln	His	Pro	Ser	Arg
	450					455					460				
Thr	Ser	Ser	Ser	Thr	Gly	Leu	Phe	Ser	Gly	Val	Gly	Pro	Ser	Val	Ala
465					470					475					480
Gly	Gly	Asn	Gly	Ser	Ile	Leu	His	Gln	Ser	Val	His	Ile	Ala	Thr	Pro
			485						490					495	
Ala	Pro	Ser	Pro	Pro	Ser	Pro	Ile	Gly	Pro	Gly	Gly	Lys	Ala	Gly	
			500					505					510		
Lys	Lys	Gln	Asn	Tyr	Gln	Thr	Asn	Gln	Asn	Phe	Pro	Phe	Met	Tyr	Pro
	515					520					525				
Pro	Leu	Asp	Asp	Ser	Ser	Asn	Asp	Ile	Gly	Gly	Lys	Gly	Ser	Ala	Glu
	530					535					540				
Arg	Gln	Asp	Ala	Leu	Val	Gly	Lys	Arg	Trp	Glu	Gly	Ser	Asp	Val	Pro
545					550					555					560
Ala	Ser	Ile	Ile	Glu	Ala	Gly	Lys	Leu	Phe	Ser	Thr	His	Val	Lys	Met
			565						570					575	
Thr	Arg	Ala	Met	Arg	Gln	Leu	Trp	Glu	Glu	Arg	Glu	Arg	Phe	Met	Lys
			580					585					590		
Tyr	Asp	Arg	Gly	Trp	Tyr	Leu	Asp	Glu	Asn	Ser	Pro	Ser	Ser	Asp	
	595					600					605				

<210> 32368

<211> 375

<212> PRT

<213> A.fumigatus

<400> 32368

Ser	Ile	Glu	Phe	Ser	Ala	Gly	Asp	Gly	Asp	Asp	Asp	Glu	Val	Gly	Asp
1				5					10					15	
Ser	Thr	Gly	Asn	Ala	Asn	Gly	Thr	Asn	Ser	Ala	Leu	Leu	Lys	Pro	Lys
			20					25					30		
Asp	Gly	Ser	Ser	Gly	Asn	Ser	Leu	Glu	Gly	Leu	Leu	Leu	Ala	Arg	Asn
		35					40						45		
Lys	Lys	Leu	Thr	Asp	Glu	Leu	Thr	Val	Leu	Arg	Val	Ser	His	Arg	Asp
	50						55						60		

12692

Leu Gln Asp Gln Leu Glu Leu Leu Arg Glu Asp Leu Ser Asn Thr Lys
 65 70 75 80
 Glu Glu Leu Glu Lys Ser Lys Gln Leu Ser Thr Thr Leu Glu Asn Asp
 85 90 95
 Leu Leu Arg Val Gln Gln Glu Ala Ala Asn Ala Phe Pro Ser Ser Ala
 100 105 110
 Met Ser Val Ala Gly Thr Tyr Ser Ser Arg Tyr Pro His Ser Thr Arg
 115 120 125
 Arg Gly Ala Ala Ser Pro Thr Ser Ser Ile Ile Ser Gly Phe Asp Gln
 130 135 140
 Ala Ala Thr Ser Ser Asn Ala Met Asp Ala Ile Arg Ala Gly Glu Pro
 145 150 155 160
 Val Gly Gly Gly Ser Gly Leu Leu Pro Met Ile Gln Ala Gln Arg Asp
 165 170 175
 Arg Phe Lys Lys Lys Asn Ala Glu Leu Glu Glu Glu Leu Ser Lys Met
 180 185 190
 Tyr Ser Thr Val Lys Ser Leu Arg Gln Glu Val Ala Ser Leu Gln Lys
 195 200 205
 Asp Asn Leu Ser Leu Tyr Glu Lys Thr Arg Tyr Val Ser Thr Tyr Ser
 210 215 220
 Arg Gly Gly Ala Ser Ser Ser Ala Ser Ala Tyr Ala Asn Lys Pro Ser
 225 230 235 240
 Asn Ser Ser Val His Val Ser Ala Asp Thr Pro Ser Gly Leu Ser Leu
 245 250 255
 Asp Arg Tyr Gln Ser Ala Tyr Glu Ala Arg Leu Ser Pro Phe Ala Ala
 260 265 270
 Phe Arg Gly Arg Glu Ser Val Arg Ala Tyr Lys Arg Met Ser Leu Pro
 275 280 285
 Glu Arg Ile Val Phe Ser Ile Thr Arg Ile Ile Leu Ala Asn Arg Thr
 290 295 300
 Ser Arg Asn Leu Phe Ala Gly Tyr Cys Phe Ala Leu His Val Leu Leu
 305 310 315 320
 Phe Leu Ala Leu Tyr Met Met Ser Thr Met Glu Ile Glu Lys His Ser
 325 330 335
 Ser Ala Ser Leu Gly Ala Ala Ala Ala Ala Ala Met Ala Gly Gly Gly
 340 345 350
 Gly Ser Gly Ser Ser Ser Gly Gln Leu His Gly Asp Asp Trp Gln Gln
 355 360 365
 Glu Gly Phe Asn His Ala Ala
 370 375

<210> 32369

<211> 313

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (1)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32369

Xaa Ala Phe Leu Gln Leu Tyr Ser Ser Leu Ser Glu Ala Pro Asp Pro
 1 5 10 15
 Tyr Pro Leu Leu Glu Ala Ser Val Asp Ser Leu Val Leu Ser Glu Gln
 20 25 30

12693

```

Thr Val Pro Lys Leu Thr Ser Glu Arg Asp Gln Leu Gln Arg Ser Val
    35          40          45
Ser Arg Leu Thr Thr Gln Leu Glu Asp Thr Glu Lys Arg Leu Gln Glu
    50          55          60
Glu Arg Ala Ala Arg Arg Asn Leu Glu Asp Ser Gln Glu Thr Lys Ile
    65          70          75          80
Lys Glu Ile Glu Ser Ser Trp Ser Ala Val Leu Ala Glu Lys Ser Asn
          85          90          95
Asn Trp Ala Ala Lys Glu Lys Ser Leu Glu Glu Lys Val Glu Asn Gln
          100          105          110
Asp Arg Leu Leu Lys Glu Ile Lys Ala Ser Tyr Glu Val Ser Gln Arg
          115          120          125
Leu Gly Gln Glu Asn Asp Gly Ser Asp Ala Ser Gln His Gly Ala Thr
          130          135          140
Ala Ala Glu Leu Glu Leu Val Ser Ala Asp Leu Glu Lys Thr Thr Leu
          145          150          155          160
Arg Leu Ala Glu Val Glu Ala Arg Asn Glu Gln Leu Arg Leu Glu Leu
          165          170          175
Ala Gln Ala Val Ser His Ser Gln Ala Thr Gln Pro Thr Ser Val Glu
          180          185          190
Asp Asp Pro Ala Tyr Leu Arg Leu Gln Ser Glu Asn Ser Ser Leu Leu
          195          200          205
Arg Lys Leu Asp Ala Ala Arg Phe Asp Arg Glu Ser Glu Arg His Ser
          210          215          220
Trp Glu Ser Lys Leu Ser Gln Leu Glu Arg Gln Ser Ser Lys Val Ala
          225          230          235          240
Ala Glu Arg Asp Glu Leu Arg Ser Arg Leu Glu Lys Thr Ala Asp Tyr
          245          250          255
Glu Asp Ile Arg Arg Glu Leu Glu Met Ile Lys Val Gly Tyr Phe Leu
          260          265          270
Trp Gln Asp Ser Arg Thr Cys Leu Ile Leu Arg Ser Leu Leu Asn
          275          280          285
Ser Leu Pro Ala Met Gly Thr Met Met Arg Leu Glu Ile Pro Gln Val
          290          295          300
Met Leu Thr Val Pro Thr Ala Pro Phe
          305          310

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<210> 32370

<211> 79

<212> PRT

<213> A.fumigatus

<400> 32370

```

Ala Ile Gln His Ser Glu Thr Asn Ser Val Phe Asn Phe Asp Ser Leu
1          5          10          15
Leu Val Lys Glu Val Tyr Tyr Pro Lys Tyr Asn Asn Ser Arg Val Phe
          20          25          30
Tyr Glu Asp Phe Arg Thr Pro Ser Gly Gly Tyr Gly Gly Leu Phe Ser
          35          40          45
Ile Thr Phe His Ser Asp Ala Glu Ala Ile Ala Phe Phe Asp His Leu
          50          55          60
Glu Val Leu Lys Gly Pro Ser Leu Gly Thr Asn Phe Thr Leu Arg
          65          70          75

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<210> 32371

<211> 158

<212> PRT

<213> A.fumigatus

<400> 32371

```

Lys Ala Gly Glu Arg Phe Leu Ala Leu Phe Thr Glu Phe Pro Gly Asn
1          5          10          15
Pro Leu Leu Lys Ser Pro Asp Leu Lys Arg Ile Tyr Ala Leu Ala Gln
          20          25          30
Lys Tyr Asp Phe Ala Val Val Val Asp Glu Thr Val Gly Asn Phe Leu
          35          40          45
Asn Ile Asn Val Leu Pro Tyr Ala Asp Ile Val Val Ser Ser Leu Thr
          50          55          60
Lys Val Phe Ser Gly Asp Ser Asn Val Met Gly Gly Ser Ala Val Ile
65          70          75          80
Asn Pro His Gly Arg Tyr Tyr Gln Glu Leu Arg Ala Thr Phe Ser Arg
          85          90          95
Asp Tyr Glu Asp Asn Leu Trp Ala Glu Asp Ala Val Phe Leu Glu Arg
          100          105          110
Asn Ser Arg Asp Phe Val Ser Arg Ile Glu Lys Ile Asn Lys Thr Thr
          115          120          125
Glu Asp Ile Thr Ala Leu Leu Lys Glu Ser Pro Val Gly Glu Gln Ser
          130          135          140
Asn Ile Leu Arg Gln Ile Leu Tyr Ser Ile Leu Thr Leu Cys
145          150          155

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<210> 32372

<211> 87

<212> PRT

<213> A.fumigatus

<400> 32372

```

Thr Ser Ser Pro Tyr Thr Leu Leu Ala His Tyr Asn Glu Leu Asp Trp
1          5          10          15
Val Ser Ile Ala Leu Phe Ala Pro Ile Leu Leu Leu Trp Leu Asp Val
          20          25          30
Ser Leu Pro Ser Pro Gly Ser Glu Pro Pro Ala His Cys Pro Leu Gln
          35          40          45
Ala Ala Ser Phe Gly Val Glu Ser Asn Leu Val Arg Ile Ser Val Gly
          50          55          60
Leu Glu Asp Val Ser Asp Leu Arg Asp Gln Val Gln Arg Ala Leu Ala
65          70          75          80
Ala Ala Ala Glu Ala Lys Asp
          85

```

<210> 32373

<211> 486

<212> PRT

<213> A.fumigatus

<400> 32373

```

Leu His Cys Ser Phe Gln Pro Arg Gly Glu Asp Gln Asp Pro Ile Gly
1          5          10          15
Arg Leu Leu Asn Ala Ala Gln Met Lys His Leu Ala Lys Met Thr Asp
          20          25          30
Glu Ala Val Ala Thr Ala Asp Glu Ala Trp Glu Thr Tyr Arg Gly Gln
          35          40          45

```

Lys Glu Asp Tyr Arg Asp Arg Tyr Thr Leu His Ser Phe Phe Ser Val
 50 55 60
 Phe Leu Glu Leu His Gln Thr His Arg Val Gln Asp Val Leu Asp Leu
 65 70 75 80
 Ala Ala Ser His Pro Gln Glu Phe Gln Phe Thr Glu Arg Ile Gly Leu
 85 90 95
 Val Glu Phe Leu Ala Ser Thr Leu Thr Trp Thr Arg Arg Leu Val Tyr
 100 105 110
 Arg Val Leu His His Thr Arg Thr Arg Gly Asp Gly Lys Leu Ile Asp
 115 120 125
 Leu Val Ala Ser Ala Val Ala Arg Ala Glu Ala Ser Glu Gly Glu Leu
 130 135 140
 Thr Asp Asp Leu Ala Ala Ala Lys Tyr Phe Ile Ala Ser Leu Met Val
 145 150 155 160
 Glu Asn Gly Arg Phe Ser Ala Gly Ile Gln Ala Trp Tyr Gln Leu Ala
 165 170 175
 Ala Leu Asp His Pro Arg Gly Asp Arg Glu Arg Ala Gln Ala Arg Ser
 180 185 190
 Leu Ser Arg Leu Ala Ala Val Cys Leu Cys Asn Pro Glu Ile Pro Leu
 195 200 205
 Cys Asp Glu Pro Pro Leu Arg Leu Asp Glu Lys Ala Glu Tyr Ser Asp
 210 215 220
 Ile Cys Leu Val Ile Ser Ser Trp Leu Arg Tyr His Gly Asp Leu Ala
 225 230 235 240
 Asn Ala Arg Thr Ala Leu Arg Gly Arg Val Lys Lys Ser Ile Glu Leu
 245 250 255
 Leu Ser Asp Asp Asp Pro Ser Asn Asp Asp Asp Ala Phe Leu Ser Leu
 260 265 270
 Phe Gln Thr Leu Leu Thr Ala Ala Asp Ser Asp Glu Asp Leu Ser Gly
 275 280 285
 Ala Leu Tyr Cys Thr Lys Ala Trp Tyr Lys Asp Cys Leu Arg Glu Ala
 290 295 300
 Lys Ser Asp His Arg Met Ser Glu Gly Gly Val Ala Glu Ser Leu Asn
 305 310 315 320
 Gln Val His Leu Val Ala Asp Glu Thr Gln Val Pro Asp Asp Gly Val
 325 330 335
 Ser Glu Arg Arg Ile Ser Tyr Thr Ile Asp Tyr Phe Ala Glu Cys Ser
 340 345 350
 Asn Cys Lys Cys Glu Met Lys Ser Ile Cys His Trp Tyr Phe Cys Leu
 355 360 365
 Cys Cys Pro Phe Met Met Leu Cys Gln Trp Cys Tyr His Glu Ile Gln
 370 375 380
 Ser Ala Ser Ser Gln Asp Gly Thr Ser His Pro Gln Gly Ile Cys Asp
 385 390 395 400
 Pro Gln His Glu Phe Tyr Tyr Thr Gly Gly Pro Leu Arg Ala Val Glu
 405 410 415
 Arg Val Pro Glu Gly Met Thr Val Leu Asp Gly Leu Asp Gly Thr Lys
 420 425 430
 Arg Thr Ala Trp Ile Glu Glu Trp Lys His Gln Leu Ser Glu Lys Trp
 435 440 445
 Glu Thr Ala Asp Phe Ala Phe Ala Gly Gly Leu Ser Ala Trp Cys Met
 450 455 460
 Arg Ile Leu Pro Glu Pro Gln Arg Ser Arg Trp Ala Arg Leu Phe Val
 465 470 475 480
 Arg Pro Leu Gly Ser Ala
 485

<210> 32374
 <211> 218
 <212> PRT
 <213> A.fumigatus

<400> 32374
 Phe Gly Arg Ala Arg Thr Val Glu Thr Asn Val Asn Leu Val Val Leu
 1 5 10 15
 Trp Asn Ala Ser Ser Phe Asn Cys Leu Ala Glu Leu Asp Gly Met Asn
 20 25 30
 Gly Gly Glu Glu Asn Ser Gly Gly Val Phe Val Ile Gly Ala Thr Asn
 35 40 45
 Arg Pro Asp Leu Leu Asp Thr Ala Leu Leu Arg Pro Gly Arg Phe Asp
 50 55 60
 Lys Met Leu Tyr Leu Gly Val Ser Asp Thr His Glu Lys Gln Ala Thr
 65 70 75 80
 Ile Leu Glu Ala Leu Thr Arg Lys Phe Thr Leu Asp Pro Glu Val Ser
 85 90 95
 Leu Arg Arg Val Ala Asp Arg Leu Pro Leu Thr Tyr Thr Gly Ala Asp
 100 105 110
 Leu Tyr Ala Leu Cys Ser Asp Ala Met Leu Lys Ala Ile Thr Arg Lys
 115 120 125
 Ala Thr Ala Val Asp Glu Lys Ile Lys Gln Leu Pro Gly Gly Pro Val
 130 135 140
 Ser Thr Ala Tyr Phe Phe Asp His Leu Ala Thr Pro Asp Asp Val Ala
 145 150 155 160
 Val Met Val Thr Glu Glu Asp Phe Asn Arg Ala Gln Ser Glu Met Val
 165 170 175
 Pro Ser Val Arg Tyr Val Pro Ser Ser Gln Tyr Pro Glu Lys Ile Ile
 180 185 190
 Glu Arg His Leu Leu Arg Ser Leu Gln Cys Gln Gly Thr Gly Thr Phe
 195 200 205
 Arg Ala Asp Ser Ala Ala Ile Arg Ile Arg
 210 215

<210> 32375
 <211> 647
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (305), (341), (346)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32375
 Val Lys Thr Lys Ile Asp Gly Leu Pro Gly Leu Pro Ser Ala Lys Pro
 1 5 10 15
 Arg Tyr Ser Ile Asn Gln Ser Ser Asp Arg Arg Pro Ser Ile Ser Gln
 20 25 30
 Arg Pro Pro Gln Arg Leu Thr Pro Ser Val Tyr Thr Ser Pro Leu Leu
 35 40 45
 Leu Asn Asn Leu Glu Asn Thr Lys Tyr Val Arg Ile Ser Pro Met Ala
 50 55 60
 Phe Ala Thr Gly Asn Gly Pro Ser Lys Ser Ala Val Leu His Gln Val

65				70				75				80			
Lys	Ala	Ser	Ser	Ala	Arg	Gln	Pro	Pro	Leu	Ala	Lys	Glu	Val	Asn	Leu
				85					90					95	
Leu	Lys	Val	Ser	Thr	Pro	Leu	Ser	Met	Asp	Arg	Val	Leu	Gln	Pro	Ala
			100					105					110		
Leu	Phe	Ala	Gly	Leu	Lys	Gln	Tyr	Phe	Glu	Ser	Lys	Arg	Arg	Ile	Leu
		115					120					125			
Lys	Ser	Gly	Asp	Leu	Val	Gly	Ile	Ser	Val	Asp	Glu	Arg	Leu	Gly	Arg
	130					135					140				
Ala	Val	Phe	Ser	Gly	Ala	Ala	Ala	Thr	Asp	Ala	Ser	Thr	Pro	Asp	Glu
145					150					155					160
Asp	Leu	Thr	Ile	Arg	Phe	Asn	Gln	Ala	Asn	Glu	Ser	Ala	Gln	Gly	Val
				165					170					175	
Lys	Lys	Val	Gly	Val	Ala	Trp	Phe	Arg	Val	Ala	His	Val	Val	Pro	Gly
		180						185						190	
Lys	Ser	Glu	Asp	Gln	Asp	Glu	Asp	Asp	Gln	Trp	Gly	Gly	Val	Ala	Val
	195						200					205			
Ile	Asp	Ser	Ala	Thr	Thr	Arg	Met	Val	Gln	Ala	Gly	Ser	Asp	Ile	Ser
	210					215					220				
Arg	Val	Pro	Gly	Ile	Leu	Glu	Asn	Gly	Trp	Glu	Tyr	Trp	Leu	Gly	Val
225					230					235					240
Lys	Ser	Val	Pro	Lys	Ser	Ile	Ser	Asn	Ala	Pro	Gly	Leu	His	Gly	Leu
			245						250					255	
Val	Thr	Glu	Pro	Pro	Gln	Pro	Phe	Ile	Pro	Pro	Leu	Gln	Lys	Arg	Ile
			260					265						270	
Arg	Glu	Leu	Met	Ala	Val	Ala	Thr	Ser	Pro	Arg	Ala	Ile	Gln	Leu	Gly
		275					280					285			
Met	Lys	Pro	Val	Val	Ile	Leu	Leu	Arg	Ser	Gln	Gln	Arg	His	Ile	Gly
	290					295					300				
Xaa	Thr	Thr	Val	Ala	Thr	Arg	Ala	Cys	Ala	Asp	Ile	Gly	Leu	His	Thr
305					310					315					320
Phe	Pro	Ile	Asp	Ala	Tyr	Asp	Ile	Leu	Thr	Glu	Gly	Gly	Arg	Asn	Gly
			325						330					335	
Gly	Asp	Val	Lys	Xaa	Glu	Ala	Tyr	Leu	Xaa	Ala	Arg	Ala	Glu	Arg	Ala
			340					345					350		
Phe	Asp	Arg	Gly	Pro	His	Cys	Thr	Ala	Leu	Leu	Ile	Lys	His	Ile	Glu
		355					360					365			
Val	Leu	Thr	Ala	Asp	Arg	Ile	Val	Ser	Ala	Met	Ala	Glu	Ile	Leu	Ala
	370					375					380				
Asp	Ala	Arg	Val	Val	Ile	Ala	Thr	Thr	Thr	Asp	Val	Glu	Gln	Ile	Pro
385					390					395					400
Glu	Gly	Ile	Arg	Ser	Met	Phe	Thr	His	Glu	Phe	Glu	Met	Thr	Ala	Pro
			405						410					415	
Glu	Glu	Lys	Glu	Arg	Glu	Gly	Ile	Leu	Arg	Asn	Ala	Val	Ala	Glu	Arg
			420					425					430		
Ser	Ile	Arg	Leu	Ser	Pro	Asp	Val	Asp	Leu	Gly	Ser	Val	Ala	Leu	Lys
		435					440					445			
Thr	Ala	Ala	Leu	Val	Ala	Gly	Asp	Leu	Val	Asp	Val	Val	Glu	Arg	Ala
	450					455					460				
Ser	Ala	Ile	Arg	Thr	Ala	Arg	Leu	Glu	Lys	Leu	Ala	Glu	Thr	Pro	Ser
465					470					475					480
Lys	Val	Ala	Pro	Glu	Ser	Asn	Val	Ser	Val	Arg	Asp	Val	Leu	Val	Ser
			485						490					495	
Gly	Gly	Asp	Ala	Ala	Arg	Gly	Val	Thr	Lys	Ala	Asp	Phe	Asp	Ala	Ala
			500					505					510		
Val	Glu	Ala	Ala	Arg	Lys	Asn	Phe	Ala	Asp	Ser	Ile	Gly	Ala	Pro	Lys

```

      515              520              525
Ile Pro Asn Val Lys Trp Glu Asp Val Gly Gly Leu Thr Asn Val Lys
      530              535              540
Asp Ala Leu Val Glu Thr Ile Gln Leu Pro Leu Glu Arg Pro Glu Leu
545              550              555              560
Phe Ala Lys Gly Met Lys Lys Arg Ser Gly Ile Leu Phe Tyr Gly Pro
      565              570              575
Pro Gly Thr Gly Lys Thr Leu Leu Ala Lys Ala Ile Ala Thr Glu Phe
      580              585              590
Ser Leu Asn Phe Phe Ser Val Lys Gly Pro Glu Leu Leu Asn Met Tyr
      595              600              605
Ile Gly Glu Ser Glu Ala Asn Val Arg Arg Val Ser Gln Arg Ala Arg
      610              615              620
Asp Ala Arg Thr Cys Val Val Ile Ile Asp Glu Leu Asp Ser Asp Ala
625              630              635              640
Pro Glu Pro Trp Lys Pro Met
      645

```

<210> 32376

<211> 207

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (206)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32376

```

Ile Val Ser Thr Arg Ala Ser Leu Thr Leu Val Ser Pro Pro Thr Ser
1              5              10              15
Ser His Leu Thr Phe Gly Ile Leu Gly Ala Pro Met Glu Ser Ala Lys
      20              25              30
Phe Phe Leu Ala Ala Ser Thr Ala Ala Ser Lys Ser Ala Leu Val Thr
      35              40              45
Pro Arg Ala Ala Ser Pro Pro Glu Thr Ser Thr Ser Leu Thr Leu Thr
      50              55              60
Leu Asp Ser Gly Ala Thr Leu Leu Gly Val Ser Ala Ser Phe Ser Arg
65              70              75              80
Arg Ala Val Arg Met Ala Asp Ala Leu Ser Thr Thr Ser Thr Lys Ser
      85              90              95
Pro Ala Thr Lys Ala Ala Val Phe Arg Ala Thr Asp Pro Arg Ser Thr
      100             105             110
Ser Gly Asp Ser Leu Met Leu Arg Ser Ala Thr Ala Phe Arg Arg Met
      115             120             125
Pro Ser Arg Ser Phe Ser Ser Gly Ala Val Ile Ser Asn Ser Trp Val
      130             135             140
Asn Met Leu Arg Ile Pro Ser Gly Ile Cys Ser Thr Ser Val Val Val
145             150             155             160
Ala Ile Thr Thr Leu Ala Ser Ala Arg Ile Ser Ala Ile Ala Asp Thr
      165             170             175
Ile Leu Ser Ala Val Ser Thr Ser Met Cys Leu Met Arg Ser Ala Val
      180             185             190
Gln Cys Gly Pro Arg Ser Asn Ala Arg Ser Ala Leu Ala Xaa Arg
195             200             205

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<210> 32377
 <211> 469
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (455)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32377

Leu	Ala	Gly	Pro	Val	Arg	His	Ala	Pro	Thr	Met	Ser	Val	Thr	Thr	Ser
1			5						10					15	
Leu	Trp	Trp	Pro	Glu	Asp	Arg	Ile	Gln	Ala	Thr	Leu	Cys	Pro	Glu	Tyr
			20					25				30			
Val	Phe	Gly	His	Leu	Pro	Ser	Asp	Leu	Leu	Pro	Arg	Leu	Val	Ala	Pro
		35					40					45			
Leu	Pro	Trp	Gly	Glu	Gly	Leu	Thr	Ser	Glu	Thr	Tyr	Leu	Asp	Trp	Ile
	50					55					60				
Leu	His	Lys	Ala	Gly	Arg	Leu	Phe	Leu	Ile	Leu	Val	Asp	Ile	Gly	Ile
65					70					75				80	
Pro	Glu	Arg	Ile	Phe	Ser	Leu	Val	Asp	Glu	Ser	Phe	Asp	Asp	Ala	Asp
			85					90						95	
Leu	Pro	Ile	Ala	Ala	His	Ser	Val	Glu	Arg	Leu	Lys	Leu	Ser	Leu	Asp
			100					105					110		
Asp	Lys	Asn	Pro	Thr	Leu	Asp	Ala	Lys	Phe	Phe	His	Ala	Gln	Trp	Arg
		115					120					125			
Phe	Leu	Val	Arg	Gly	Ile	Lys	Gln	Gly	Asp	His	Ile	Lys	Tyr	Thr	Glu
	130					135					140				
Asn	Glu	Gly	Val	Pro	Val	Glu	Leu	Ile	Arg	Asn	Glu	Ala	Ala	Leu	Ala
145					150					155				160	
Arg	Glu	Gly	Ile	Glu	Lys	Val	Val	Leu	Ala	Gly	Ala	Val	Cys	Gln	Val
			165					170						175	
Tyr	Leu	Arg	Thr	Gln	Val	Thr	Val	Gly	Gly	Ala	Pro	His	Phe	Phe	Glu
		180						185					190		
Glu	Gln	Glu	Val	Leu	Asp	Glu	Ile	Arg	Ser	Leu	Arg	Arg	Leu	Ser	His
		195					200					205			
Asp	His	Val	Phe	Ser	Ile	Tyr	Ala	Ser	Tyr	Phe	Val	Asp	Asp	Thr	Met
	210					215				220					
Cys	Ile	Leu	Phe	Ser	Gly	Thr	Tyr	Asp	Arg	Ser	Leu	Met	Ser	Phe	Leu
225					230					235				240	
Thr	Asp	Val	Pro	Gln	Pro	Phe	Lys	Arg	Leu	Pro	Lys	Asn	Arg	Arg	Arg
			245						250					255	
Glu	Ile	Leu	Ile	Asn	Trp	Pro	His	Cys	Leu	Val	Asp	Gly	Leu	Ala	Trp
		260						265					270		
Leu	His	Ala	His	Asn	Gln	Val	His	Gly	Ala	Ile	Arg	Pro	Ser	Asn	Val
		275					280					285			
Leu	Ile	Asp	Ser	Glu	Tyr	Arg	Ile	Phe	Leu	Gly	Gln	Phe	Glu	Ala	Leu
	290					295					300				
Asp	Thr	Leu	Leu	Pro	Pro	Ala	Lys	Ile	Asp	Asp	Val	Glu	Ser	Tyr	Gln
305					310					315				320	
Tyr	Gly	Ala	Pro	Glu	Arg	Trp	Val	Arg	Ala	Val	Thr	Val	Gln	Asp	Thr
			325						330					335	
Gly	Pro	Thr	Arg	Thr	Val	Leu	Pro	Ser	Gly	Gly	Arg	Thr	Gly	Arg	Arg
			340					345					350		
Gln	Pro	Ser	Ser	Arg	Pro	Gly	Arg	Leu	Thr	Leu	Phe	Ser	Arg	Gly	Pro

12700

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      355              360              365
Gly Ser Asp Asp Ala Val Asp His Ser Leu Ser Ser Arg Ala Glu Ser
      370              375              380
Val Thr Ser His Gly Thr Ala Ile Arg Ile Gly Gly Leu Pro Asp Ser
385              390              395              400
Pro Thr Arg Phe Ser Phe Ala Leu Ser Ser Ser Ser Ser Gly Ser Ser
      405              410              415
Gly Ser Ala Arg Lys Arg Val Val Thr Pro Val Lys Arg Arg Ile Leu
      420              425              430
Tyr Thr Pro Ser Ile Thr Leu Ser Asn Ser Ser Gly Ser Ser Ser Ser
      435              440              445
Phe Ser Phe Thr Val Leu Xaa Pro Gly Ser Thr Pro Arg His Ser Ile
      450              455              460
Glu Asn Arg Cys Gly
465

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<210> 32378

<211> 106

<212> PRT

<213> A.fumigatus

<400> 32378

```

Pro Val Asn Asn Thr Lys Ala Leu Phe Phe Gln Pro Asp Trp Lys Arg
1              5              10              15
Leu Ser Gln Glu Glu Thr Cys Arg Asp Ser Asn Phe Ser Pro Ser Asp
      20              25              30
Ser His Glu Ala His Ile Arg Leu Leu Asn Ala Ala Gly Ala Ala Thr
      35              40              45
Leu Arg Ala Ser Pro Leu Arg Gln His Leu Lys Glu Thr Glu His Leu
      50              55              60
Val Ala Asn Asn Lys Asn Ala Pro Pro Gly His His Pro Leu Arg Pro
65              70              75              80
Pro Arg Arg Arg Leu Arg Leu Arg Arg His Arg Ala Arg Pro Arg Arg
      85              90              95
Pro Tyr Arg Leu His Leu Tyr Arg Leu Pro
      100              105

```

<210> 32379

<211> 223

<212> PRT

<213> A.fumigatus

<400> 32379

```

Met Gln Leu Val Gln Pro Leu Cys Ala Pro His Leu Ser Val Asn Ile
1              5              10              15
Ser Lys Lys Gln Ser Thr Leu Leu Gln Ile Thr Lys Met Arg Leu Pro
      20              25              30
Ala Ile Ile Pro Ser Ala Leu Leu Gly Val Ala Phe Val Phe Ala Val
      35              40              45
Ile Glu Leu Gly Leu Gly Gly His Ile Ala Ser Ile Ser Thr Gly Ser
      50              55              60
Arg Lys Ile Pro Phe Tyr Asp Pro Ser Ser Ser Trp Gly Tyr Ser Tyr
65              70              75              80
Lys Thr Ile Lys Tyr Ser Val Pro Gly Ile Val Ala Phe Gln Ile Phe
      85              90              95
Thr Ser Val Trp Thr Met Leu Val Ser Val Ala Ala Phe Leu Leu Pro

```

[illegible]

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<400> 32381
Phe Gly Ser Ile Pro Cys Ser Ile Phe Trp Cys Ile Val Trp Leu Asp
1          5          10          15
Gly Phe Val Ser Val Thr Gly Asn Tyr Met Asn Thr Gly Arg Gly Val
          20          25          30
Leu Asn Leu Glu Asp Gly Lys Ile Gly Ala Leu Leu Arg Arg Leu Ile
          35          40          45

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12702

Gln Leu Gln Val Lys Gly Phe Met Glu His Val Ser His His Asp Tyr
 50 55 60
 Arg Leu
 65

<210> 32382
 <211> 147
 <212> PRT
 <213> A.fumigatus

<400> 32382
 Thr Pro Arg Arg Val Pro Arg Leu Gly Phe Thr Leu Ser Lys Gln Glu
 1 5 10 15
 Leu Ile Ser Leu Leu Thr Thr Tyr Gly Val Pro Arg Pro Gln Val Gln
 20 25 30
 Gln Gln Ser Ala Ser Gln Ala Ala Gln His Gln Ala Gln Ser Lys Thr
 35 40 45
 Thr Pro Ala Thr Asn Pro Gln His Pro Ser Asn Leu Leu Met Pro Leu
 50 55 60
 Ser Ala Phe Gln Ala Val Thr Ala Val Lys Ile Leu Glu Arg Asp Pro
 65 70 75 80
 Arg Asp Glu Ile Leu Arg Ala Phe Glu Leu Phe Asp Glu Gly Gly Lys
 85 90 95
 Gly Tyr Ile Asp Leu Glu Asp Leu Arg Arg Val Ala Arg Glu Leu Gly
 100 105 110
 Glu Thr Gly Leu Glu Glu Glu Glu Leu Arg Ala Met Ile Glu Glu Phe
 115 120 125
 Asp Leu Glu Gly Val Gly Gly Val Thr Arg Asp Ala Phe Val Ser Ile
 130 135 140
 Cys Trp Gln
 145

<210> 32383
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 32383
 His His Arg His Leu Pro Asn Gln Thr Pro Arg Ser Ser Arg Val Ala
 1 5 10 15
 Pro Pro Pro Pro Thr Pro Ser Pro Pro Ile Pro Ser Gln Pro Ala Ala
 20 25 30
 Asn Pro Gln Asp Gln Cys Ile Pro Ser Arg Pro Arg Gln Thr Ala Gln
 35 40 45
 Met Pro Gly Gly Ser Arg Pro Ala Asp Pro Ala Pro Glu Ser
 50 55 60

<210> 32384
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 32384
 Arg Thr Arg His Val Ile Leu Ser Gln Pro Ile Leu Val Gln Ser Asp
 1 5 10 15
 Asp Leu Leu Gly Ile Asp Val Val Arg Ser Arg Ile Lys Gly Phe Ala

[illegible]

```
<210> 32385
<211> 80
<212> PRT
<213> A.fumigatus
```

```
<210> 32386
<211> 224
<212> PRT
<213> A.fumigatus
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<223> Identity of amino acid sequences at the above locations are unknown.

<400>	32386																		
Arg	Ile	Gln	Asn	Met	Cys	Asp	Trp	Ser	Leu	Ile	Ile	Tyr	Ser	Met	Thr				
1				5					10					15					
Pro	Gly	Ala	Gln	Gln	Ala	Leu	Arg	Arg	Thr	Met	Glu	Ile	Tyr	Ser	Ser				
			20					25					30						
Thr	Thr	Arg	Phe	Ala	Phe	Ala	Cys	Asn	Gln	Ser	Asn	Lys	Ile	Ile	Glu				
		35					40					45							
Pro	Ile	Gln	Ser	Arg	Cys	Ala	Ile	Leu	Arg	Tyr	Ala	Arg	Leu	Thr	Asp				
	50					55					60								
Ala	Gln	Val	Val	Lys	Arg	Leu	Lys	Gln	Ile	Cys	Asp	Ala	Glu	Lys	Val				
65				70						75					80				
Glu	His	Thr	Glu	Asp	Gly	Ile	Ala	Ala	Leu	Val	Phe	Ser	Ala	Glu	Gly				
				85					90					95					
Asp	Met	Arg	Gln	Ala	Ile	Asn	Asn	Leu	Gln	Ser	Thr	Trp	Ser	Gly	Phe				
			100					105					110						
Gly	Leu	Val	Ser	Gly	Asp	Asn	Val	Phe	Arg	Val	Val	Asp	Ser	Pro	His				
		115					120					125							
Pro	Ile	Lys	Val	Gln	Ala	Met	Ile	Lys	Ala	Cys	Trp	Glu	Gly	Lys	Val				
	130					135					140								
Asp	Ala	Ala	Leu	Glu	Thr	Leu	Asn	Glu	Leu	Trp	Tyr	Ala	His	Asp	Ala				
145					150					155					160				

12704

```

Phe Asp Tyr Cys Phe Val Ile Asp Ile Leu Ile Thr Leu Arg Asp Leu
      165                      170                      175
Gly Tyr Ser Ser His Asp Ile Ile Ser Thr Met Phe Arg Val Thr Lys
      180                      185                      190
Thr Ile Pro Thr Leu Ser Glu His Ser Lys Leu Glu Phe Ile Arg Glu
      195                      200                      205
Thr Gly Leu Thr His Xaa Val Ser Ala Ser Ile Glu Lys Tyr Ile Gly
      210                      215                      220

```

<210> 32387
 <211> 114
 <212> PRT
 <213> A.fumigatus

```

<400> 32387
Pro Thr Ser Leu Gln Val Ile Gln Ser Ser Lys Thr Asn Cys Asp Lys
1      5                      10                      15
Leu Ile Phe Ile Thr Leu Arg Asp Phe Cys Arg Glu Leu Asp Met Ser
      20                      25                      30
Leu Ile Arg Gly Ile Met Glu Leu Thr Ser Gln Arg Pro Gly Ile Pro
      35                      40                      45
Gln Leu Ser Gly Pro Leu Ser Lys Gly Leu Leu Pro Gly Gly Ile Ser
      50                      55                      60
Cys Asp Met Glu Phe Arg Ala Gly Lys Val Leu Leu Arg Asn Ala Trp
65      70                      75                      80
Ala Ser Ala Val Arg Ser Ile His Pro Val Leu Leu Asn Ile Ser Lys
      85                      90                      95
Ile Asp Ile Val Ser Gly Val Ile Gln Asn Arg Leu Ile Ser Arg Leu
      100                      105                      110
Val Met

```

<210> 32388
 <211> 89
 <212> PRT
 <213> A.fumigatus

```

<400> 32388
His Val Cys Gly Leu Met Gln Pro Ser Ser Arg Ala Ile Gln Lys Gln
1      5                      10                      15
Arg Leu Trp Ile Ser Met Met His Tyr Gly Leu Trp Lys Ala Ser Gln
      20                      25                      30
His Trp Thr Pro Arg Asp Cys Phe Ala Arg Pro Ser Tyr Ile Arg Trp
      35                      40                      45
Asp Met His Thr Ala Val Trp Thr Trp Leu Gln Asn Gln Lys Pro Ala
      50                      55                      60
Thr Trp Arg His Trp Gly Ser Thr Asn Asp Pro Leu Gly Ala Thr Thr
65      70                      75                      80
Leu Arg Thr Leu Gln Phe Cys Thr Ile
      85

```

<210> 32389
 <211> 61
 <212> PRT
 <213> A.fumigatus

<400> 32389

Phe Arg Leu Ser Gly Pro Tyr Ser Leu Ile Thr Lys Gly Tyr Arg Met
 1 5 10 15
 Glu Lys Arg Phe Leu Pro Leu Asn Ser Arg Pro Leu Arg Phe Phe Cys
 20 25 30
 Glu His Cys Glu Lys Gln Phe Thr Met Asp Asp Lys Asp Glu Ile Val
 35 40 45
 Asp Arg Gln Arg Gly Glu Thr Val Thr Arg Asn Phe Leu
 50 55 60

<210> 32390

<211> 77

<212> PRT

<213> A.fumigatus

<400> 32390

Leu Leu Pro Ala Pro Asn Asp Val His Ile Ile Gly Ser Lys Thr Ser
 1 5 10 15
 Gly Met Ala Leu Cys Glu Glu Glu Asn Glu His Tyr Gly Ser Asp Tyr
 20 25 30
 Val Asp Ser Gln Gly Lys Phe Val Arg Asn Gln Thr Gln Gly Thr Pro
 35 40 45
 Pro Ser Pro Ser Arg Arg Gln Ser Phe Leu Gln Arg Ile Phe Gly Arg
 50 55 60
 Thr Val Pro Lys Gly Leu Leu Asp Glu Tyr Asn Ala Gly
 65 70 75

<210> 32391

<211> 398

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (398)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32391

Arg Arg Thr Gly Leu Ser Arg Ala Lys Ser Thr Ser Asn Arg Gly Arg
 1 5 10 15
 Lys Leu Leu Lys Arg Val Asn Thr Val Arg Leu Ser Phe Thr Gln Arg
 20 25 30
 Gly Ser Lys Asn Glu Ser His Thr Ser Leu Glu Ser Glu Gly Ser Ser
 35 40 45
 Ser Asp Val Lys Pro Ala Ala Lys Thr Gln Arg Arg Ala Asp Gly Val
 50 55 60
 Arg Thr Ala Val Ser Glu Ala Glu Tyr Met Asp Leu Leu Arg Asn Cys
 65 70 75 80
 Gln Asn Ile Phe Ile His Ile Gln His Leu Ser Gly Gly Ala Met Val
 85 90 95
 His Asp Ala Ser Gly Arg Gln Arg Leu Leu Gln Met Asp Glu Val Ala
 100 105 110
 Gln Leu Phe Leu Gln Leu Lys Asn Glu Leu Ser Ala Ser Thr Ala Tyr
 115 120 125
 Ser Lys Ala Leu Ile Thr Arg Met Arg Ala Asp Ala Ala Leu Lys Gln
 130 135 140

12706

Gly Asn Ser Lys Ala Ala Val Val Asp Phe His Asp Ala Leu Arg Thr
 145 150 155 160
 Leu Glu Ser Glu Pro Ala Leu Asp Thr Glu Arg Leu Phe Arg Ala Ser
 165 170 175
 Ile Leu His Ser Met Gly His Ala Tyr Arg Ser Leu Asp Met Ala Ala
 180 185 190
 Glu Ser Glu Ala Cys Tyr Leu Glu Ala Leu Gly Leu Tyr Lys Arg Ser
 195 200 205
 Phe Gly Arg Asp His Pro Thr Asn Phe Ala Val Leu His Asp Leu Gly
 210 215 220
 Ala Leu Cys Glu Lys Asp Gly Tyr Ala Thr Glu Ala Ala Ala Leu Tyr
 225 230 235 240
 Glu Arg Ser Phe Ala Gly Arg Leu Lys Thr Leu Gly Gln His Ala Pro
 245 250 255
 Glu Thr Leu Ser Ser Met Gln Arg Leu Ala Ser Leu Lys Val Ser Leu
 260 265 270
 Gly Asp Leu Glu Ser Ala Leu Leu Leu Glu Arg Ala Val Pro Ala
 275 280 285
 Leu Asp Thr Val Phe Gly Leu Gln Asn Glu Thr Thr Leu Asn Ala Met
 290 295 300
 Asn Lys Leu Ser Leu Leu Tyr Gln Lys Leu Gly Leu Val Lys Glu Ser
 305 310 315 320
 Arg Met Ile Cys Gly Lys Thr Ile Pro His Cys Lys Thr Ile Phe Gly
 325 330 335
 Val Ala Ser Ala Ile Thr Arg Asp Ala Val Ile Arg Tyr Ile Gln Ser
 340 345 350
 Ser Asp Asn Phe Asp Leu Pro Pro Glu Ile Leu Asp Ile Leu Asp Gln
 355 360 365
 Tyr Arg Asn Ser Ser Asp Pro Glu Ala Leu Arg Val Ile His Arg Leu
 370 375 380
 Gly Arg Ser Tyr Met Asp Ala Gly Leu Asn Arg Asp Ala Xaa
 385 390 395

<210> 32392

<211> 64

<212> PRT

<213> A.fumigatus

<400> 32392

Ser His Pro Ser Leu Ala Leu Gly Ala Tyr Ser Gln Trp Leu Leu Ala
 1 5 10 15
 Thr Thr Val Lys Val Leu Gly Gly Ser Tyr Gly Gly His Asn Ala Ser
 20 25 30
 Ser Arg Ala Pro Ile Arg Pro Lys Arg His Gln Ala Pro Ser Cys Ser
 35 40 45
 Leu Asp Pro Arg Val Lys His Trp His Tyr Gln Leu Ser Met Thr Cys
 50 55 60

<210> 32393

<211> 82

<212> PRT

<213> A.fumigatus

<400> 32393

Met Arg Cys Leu Arg Ile Leu Leu Ala His Val Pro Arg Asp Thr Leu
 1 5 10 15

12707

Leu Glu Asn Val Glu Asp Phe Cys Gln Lys Phe Gly Leu Met Asp His
 20 25 30
 Ile Asp Ala Phe Arg Lys Gly Ala Leu Ile Ser Gln Asn Pro Ala Gly
 35 40 45
 Ala Leu Glu Leu Pro Glu Leu Gln Glu Asp Glu Lys Ala Ile Leu Pro
 50 55 60
 Pro Gly Val Asp Ser Gln Met Val Pro Ala Met Ala Ala Val Leu Tyr
 65 70 75 80
 Gly Leu

<210> 32394
 <211> 65
 <212> PRT
 <213> A.fumigatus

<400> 32394
 Pro Arg Ser Ala Met Cys Ser Leu Ala Ala Ala Val Gln Gly Met Asp
 1 5 10 15
 Glu Thr Val Asn Asn Gly Ala Gln Ala Ile Tyr Leu Lys Gln Phe Asn
 20 25 30
 Ile Thr Asn Pro Asp His Pro Glu Asp Ser Arg Phe Ser Gln Ser Met
 35 40 45
 Gln Arg Tyr Arg Leu Thr Arg Pro Gly Leu Glu Ala Lys Arg Val Arg
 50 55 60
 Arg
 65

<210> 32395
 <211> 64
 <212> PRT
 <213> A.fumigatus

<400> 32395
 Arg Val Tyr Ile Ala Ala Leu Val Ile Gly Lys Val Cys Tyr Ser Arg
 1 5 10 15
 Leu Asn Tyr Asn Ala Ser Tyr Ile Asp Leu Ser Leu Tyr Tyr Asn Leu
 20 25 30
 Leu Ile Leu Cys Val Ser Thr Phe Pro Pro Pro Leu Phe Phe Phe Phe
 35 40 45
 Leu Lys Lys Asp Tyr Ile Ile Leu Gly Val Leu Arg Gln Gly Leu Ser
 50 55 60

<210> 32396
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 32396
 Leu Leu Arg Arg Asp Ile Arg Tyr Val Thr Leu Arg Leu Ser Leu Ile
 1 5 10 15
 Tyr Val Asn Ser Asn Ser Asp Tyr Asn Ser Ala Pro Asp Ser Val Asn
 20 25 30
 Arg Leu Leu Ser Leu Leu Ser Ile Tyr Phe Thr Gly Trp Ile Arg Ser
 35 40 45
 Phe Leu Ile Trp Leu Leu Phe Ile Arg Val Trp Glu Val Lys

50

55

60

<210> 32397

<211> 705

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (703)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32397

Asp	Tyr	Asp	Leu	Arg	Ala	Arg	Phe	Cys	Asp	Ser	Ile	Tyr	Ala	Met	Tyr
1			5					10					15		
Asp	Asn	Val	Lys	Ala	Arg	Glu	Gly	Gly	Gly	Thr	Ser	Asp	Leu	Lys	Ile
		20					25					30			
Leu	Ile	Asp	Leu	Lys	Arg	Cys	Trp	His	Gly	Lys	Cys	Ala	Ala	Tyr	Trp
	35					40					45				
Glu	Leu	Pro	Thr	Gly	His	Ile	Ala	Pro	Gly	Thr	Ala	Ile	Val	Pro	Gly
	50				55					60					
Gly	His	Asp	Phe	Glu	Ala	Gly	Pro	Lys	Gly	Glu	Gly	Asn	Ala	Glu	Glu
65				70					75					80	
His	Glu	Tyr	Asp	Ser	Thr	Thr	Pro	Glu	Val	Asn	Gln	Glu	His	Gln	Thr
			85					90					95		
Gly	Val	Gln	Gln	Ser	Leu	Pro	Ala	Phe	Gln	Gln	Ile	Gln	His	Asp	Arg
		100					105					110			
Asn	Asn	Ser	Thr	Ala	Thr	Ala	Lys	Ser	Met	Pro	Ala	Ser	Thr	Lys	Ser
	115						120					125			
Gly	His	Ser	Val	Gln	Ala	Thr	Ser	Cys	Ser	Leu	Pro	Pro	Lys	Ser	Pro
	130					135					140				
Lys	Arg	Leu	Ser	Val	Pro	Val	Ala	Ala	Arg	Lys	Ala	Pro	His	Pro	Val
145				150					155					160	
Pro	Ile	Ile	Pro	Ser	Lys	Leu	Leu	Cys	Ser	Pro	Pro	Glu	Ser	Pro	Asn
			165					170					175		
Val	Ser	Pro	Val	Ile	Ala	Lys	Arg	Leu	Pro	Phe	His	Gly	His	Met	His
		180					185					190			
Lys	Arg	Ser	Gly	Ser	Phe	Ser	Asp	Ser	Val	Arg	Asp	Asp	Arg	Ala	Pro
	195					200				205					
Leu	Cys	Leu	Leu	Lys	Leu	Glu	Gln	Gln	Ala	Phe	Ala	Ser	Gln	Glu	Ile
	210					215				220					
Leu	Asn	Leu	Gly	Ser	Leu	Ile	Arg	Gly	Glu	Leu	Tyr	Pro	Pro	Ala	Glu
225					230				235					240	
Ser	Tyr	Met	Thr	Met	Met	Ala	Pro	Pro	Ser	Pro	Pro	Leu	Pro	Ser	Ser
			245					250					255		
Ala	Ser	Ala	Gly	Thr	Gln	Asp	Arg	Arg	Asn	Thr	Ile	Asn	Glu	Thr	Ser
		260					265					270			
Lys	Pro	Pro	Gly	Ser	Ser	Ser	Gly	Met	Lys	Thr	Ile	Ile	Gly	Ser	Ile
	275						280					285			
Arg	Arg	Ala	Leu	His	Thr	Arg	His	Gly	Gly	Gln	Ser	Val	Ser	Pro	Arg
	290					295				300					
Ala	Ala	Asn	Gly	Gln	Trp	Ser	Pro	Ser	Met	Arg	Gly	Lys	Thr	Ser	Ala
305					310				315					320	
Leu	Pro	Asn	Asn	Val	Ala	Phe	Gly	Ser	Asp	Leu	Tyr	Arg	Asp	Arg	Lys
			325					330				335			
Thr	Ala	Ala	Thr	Ser	Lys	Arg	Pro	Ile	Arg	Ile	Asp	Ile	Leu	Ser	Asp

12709

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          340          345          350
Glu Ala Leu Gln Glu Tyr Arg Arg Ala Val Gly Glu Val Val Ser Pro
          355          360          365
Gln Thr Ala Arg Gly Pro Arg Leu Glu Val Thr Glu Gln Ala Met Glu
          370          375          380
Leu Glu Gly Lys Lys Ile Asp Arg Pro Glu Pro Gly Phe Asp Arg Ser
385          390          395          400
Met Ala Lys Ser Gln Ile Thr Met Gly Ser Gln Ser Ile Val Ile Val
          405          410          415
Asp Gly Thr Gly Leu Gly Glu Pro Val Met Ser Gly Ala Val Leu Glu
          420          425          430
His Ser Met Gly Leu Glu Gln Pro Pro Gly Phe Leu Asn Ala Ala Tyr
          435          440          445
Thr Pro Thr Thr Val Lys Ala Ala Ser Leu Arg Arg Leu Ser His Arg
          450          455          460
Leu Asp Leu Ala Glu Asp Gln Tyr Ser Leu Pro Ile Tyr Tyr Glu Glu
465          470          475          480
Ala Asp Ser Gly Pro Pro Asn Arg Ile Ser Arg Phe Leu Arg Ser Ser
          485          490          495
Arg Ile Ser Asp Pro Arg Arg Ser Phe Ser Thr Glu Arg Phe Ser Val
          500          505          510
Ser Trp Lys Arg Thr Ser Pro Ser Leu Arg Leu Arg Lys Tyr Ala Ser
          515          520          525
Phe Gln Ser Gly Ile Ser Arg Gln Arg Ser Ala Met Ala Arg Glu Pro
          530          535          540
Ser Leu Pro Pro Thr Ala Ala Met Asn Pro Ser Lys Leu Thr Ala Gly
545          550          555          560
Ala Gln Val Gly Pro Thr Leu Arg Arg Arg Pro Gly Gly Asp Leu Arg
          565          570          575
Gln Met Gln Thr Val Gly Gly Leu Arg Ser Arg Pro Asp Ser Gly Ser
          580          585          590
Phe Thr Ser Gly Ser Thr Tyr Arg Ser Ser Phe Ser Asp Ser Leu Met
          595          600          605
Ser Gly Gln His Asp Val Ser Arg Arg Gln Thr Ser Leu Ile Pro Pro
          610          615          620
Asn Pro Arg Tyr Glu Leu Ile Gln Thr His Ser Ser Gln Met Leu Arg
625          630          635          640
Arg Ser Phe Glu Ala Ala Ile Ala Gln Phe Ala Gln Ile Pro Asp Asp
          645          650          655
Asp Asp Gly Gly Ile Glu Ser Ala Leu Leu Lys Leu Glu Gly Lys Trp
          660          665          670
Pro Gly Ser Pro Thr Ser Gly Glu Pro Ala Gly Leu Ser Asn Gly Gly
          675          680          685
Ser Cys Arg Glu Pro Gly His Val Gln His Asp Gln Ala Leu Xaa Leu
          690          695          700
Val
705

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<210> 32398

<211> 247

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (31), (33), (34), (63), (66)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32398

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Pro Tyr Arg Ile Phe Val Gln Gly Leu Pro Ala Pro Arg Pro Trp Ile
1           5           10           15
Gln Phe Cys Phe Pro Ala Glu Pro Leu Thr Pro Asp Leu Ser Xaa Arg
          20           25           30
Xaa Xaa Asn Thr Glu Arg Asn Asn Phe Arg Pro Val Asn Thr His Gln
          35           40           45
Val Ser Gly Asp Val Leu Ser Gln Thr Glu Met Asp Arg Gln Xaa Tyr
          50           55           60
Asn Xaa Ser Lys Asn Pro Glu Pro Asp His Val Pro Phe Ile Leu Ser
65           70           75           80
Cys Glu Ser Gln Ile Leu Ala Gln Gln Leu Thr Leu Val Glu Met Ala
          85           90           95
Ala Leu Ser Glu Val Asp Trp Lys Asp Leu Val Asp Met Asn Trp Ser
          100          105          110
Ser Gly Ser Pro Ser Thr Arg Asn Trp Val Gln Phe Leu Thr Glu Glu
          115          120          125
Glu Arg Arg Gly Ile Asp Leu Val Val Gly Arg Phe Asn Leu Met Val
          130          135          140
Arg Trp Val Val Ser Glu Ile Val Leu Val Arg Thr Leu Glu Glu Arg
145          150          155          160
Ala Ser Thr Ile Val Lys Phe Ile His Thr Ala Ala His Ala Lys Arg
          165          170          175
Ile Cys Asn Tyr Ala Thr Met Leu Gln Ile Ala Ile Ala Leu Ser Ser
          180          185          190
Thr Asp Cys Ser Arg Leu Gln Lys Thr Trp Ala Leu Val Pro Pro Ser
          195          200          205
Glu Arg Arg Leu Leu Lys Asp Met Glu Leu Leu Ile Gln Pro Val Arg
          210          215          220
Asn Phe His Asp Leu Arg Met Glu Met Glu Thr Ala Asn Leu Gln Glu
225          230          235          240
Gly Cys Ile Pro Phe Val Gly
          245

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<210> 32399

<211> 132

<212> PRT

<213> A.fumigatus

<400> 32399

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Lys Thr Trp Asn Tyr Ser Ser Ser Leu Cys Gly Thr Ser Met Ile Phe
1           5           10           15
Ala Trp Lys Trp Lys Arg Pro Ile Cys Arg Lys Ala Val Ser Arg Leu
          20           25           30
Ser Val Ser Glu Leu Ser Thr Asp Gly Ile Leu Asp Ile Leu Thr Gly
          35           40           45
Phe Ser Gly Leu Tyr Val His Asp Leu Thr Tyr Asn Ala Gln Lys Pro
          50           55           60
Ala Gln Val Ala Asn Pro Asn Gly Glu Pro Leu Val Asn Phe Glu Arg
65           70           75           80
Tyr Arg Thr Ala Ala Arg Ile Val Lys Ser Leu Leu Arg Leu Ile Asp
          85           90           95
Ala Ser Thr Lys Tyr Lys Phe Glu Pro Val Pro Gly Ile Ile Glu Arg
          100          105          110

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12711

Cys Leu Trp Ile Ala Ser Leu Ser Glu Asp Gln Ile Gln Lys Arg Ser
 115 120 125
 Arg Met Leu Glu
 130

<210> 32400
 <211> 283
 <212> PRT
 <213> A.fumigatus

<400> 32400
 Lys Val Leu Ile Leu Leu Val Arg Leu Arg Ala Ile Ser Pro Ile Met
 1 5 10 15
 Ala Ala Pro Arg Asp Ala Leu Lys Pro Gln Ile Asp Arg Gln Lys Thr
 20 25 30
 Thr Pro Phe His Leu Lys Leu Phe Tyr Arg Val Asn Ser Phe His Pro
 35 40 45
 Leu Ser Asp Phe Ala Ile Pro Ser Ser Pro Ser Ser Tyr Ser Gly Pro
 50 55 60
 Thr Ser Gly Pro Asn Ala Ile Arg Ala Arg Ser Pro Pro Pro Val Arg
 65 70 75 80
 Leu Pro Pro His Leu Glu Ile Tyr Thr Trp Gln Ser Cys Thr Leu Arg
 85 90 95
 Glu Leu Thr Gln Leu Leu Thr Ser Ala Leu Pro Ser Leu Leu Pro Asp
 100 105 110
 Pro Ala Val Gly Thr Arg Ile Cys Phe Arg Leu Ile Tyr Pro Asp Thr
 115 120 125
 Lys Gly Ala Thr Thr Met Gly Gly Asp Ala Arg Gly Arg Tyr Leu Ser
 130 135 140
 Lys Asp Val Gly Ser Val Val Val Gly Pro Lys Asp Ser Pro Tyr Arg
 145 150 155 160
 Gly Glu Asn Asp Glu Glu Asn Gly Gly Ser Ala Ala Thr Gly Pro Arg
 165 170 175
 Ala Leu Arg Leu Gln Gly Asn Asp Ala Asp Lys Thr Leu Gln Asp Phe
 180 185 190
 Arg Phe Val Ile Gly Asp Tyr Val Asp Cys Ala Ile Leu Pro Pro Leu
 195 200 205
 Glu Asp Gly Ser Val Ala Pro Pro Leu Val Thr Gly Arg Gly Ser Val
 210 215 220
 Ser Gly Pro Val Gly Gly Gly Met Arg Ala Phe Arg Asp Pro Gly Phe
 225 230 235 240
 Gly Arg Pro Gly Arg Gly Arg Gly Asp Arg Gly Ile Pro Ser Gly Asp
 245 250 255
 Trp Arg Arg Gly Glu Arg Leu Pro Asp Gly Gly Gly Arg Asn Tyr Gly
 260 265 270
 Gly Gly Pro Gly Arg Arg Gly Trp Ala Pro Tyr
 275 280

<210> 32401
 <211> 256
 <212> PRT
 <213> A.fumigatus

<400> 32401
 Arg Asp Phe Gln Ala Glu Asn Glu Asn Glu Glu Lys Val Pro Glu Val
 1 5 10 15

12712

Pro Ser Ser Asp Gln Glu Gln Gly Ile Leu Pro Lys Leu Ile Ala Thr
 20 25 30
 Leu Val Gly Arg Arg Arg Glu Val Lys Lys Leu Met Lys Ser Lys Ser
 35 40 45
 Ala Thr Pro Glu Gln Leu Ala Leu Trp Asp Thr Lys Gln Leu Ala Phe
 50 55 60
 Lys Leu Thr Ala Asn Ser Met Tyr Gly Cys Leu Gly Tyr Thr Gln Ser
 65 70 75 80
 Arg Phe Tyr Ala Arg Pro Leu Ala Met Leu Thr Thr Phe Lys Gly Arg
 85 90 95
 Glu Ile Leu Arg Ser Thr Lys Glu Leu Ala Glu Ser Lys Gln Leu Arg
 100 105 110
 Val Ile Tyr Gly Asp Thr Asp Ser Val Met Ile Asn Thr Asn Met Asp
 115 120 125
 Thr Ile Ser Asp Ala Leu Lys Val Gly Glu Glu Phe Lys Lys Ser Val
 130 135 140
 Asn Glu Arg Tyr Arg Leu Leu Glu Ile Asp Ile Asp Asn Ile Phe Arg
 145 150 155 160
 Arg Leu Leu Leu His Ala Lys Lys Lys Tyr Ala Ala Ile Asn Met Thr
 165 170 175
 Glu Val Asp Gly Lys Phe Val Asp Lys Leu Glu Val Lys Gly Leu Asp
 180 185 190
 Met Lys Arg Arg Glu Tyr Cys Ala Leu Ser Lys Glu Val Ser Gln Lys
 195 200 205
 Leu Leu Asn Glu Ile Leu Ser Gly Glu Asp Gln Glu Leu Val Leu Asn
 210 215 220
 Arg Val His Asp Tyr Leu Arg Asp Leu Ala Asp Lys Met Arg Gly Tyr
 225 230 235 240
 Gln Ile Pro Val Gln Lys Tyr Val Ile Tyr Thr Val Ser Phe Gln Pro
 245 250 255

<210> 32402

<211> 339

<212> PRT

<213> A.fumigatus

<400> 32402

Cys Ser Leu Gln Lys Leu Ser Lys Arg Pro Glu Glu Tyr Pro Asn Lys
 1 5 10 15
 Glu Thr Met Pro Pro Ala Gln Val Ala Leu Arg Glu Leu Ala Arg Gly
 20 25 30
 Lys Thr Ile Arg Pro Asn Asp Val Ile Ser Tyr Ile Val Thr Asn Gly
 35 40 45
 Asp Ser Glu Thr Ser Ser Leu Pro Pro Ala Lys Arg Ser Tyr Thr Val
 50 55 60
 His Asp Val Met Lys Ser Asp Asn Asn Leu Lys Pro Asp Ile Glu Phe
 65 70 75 80
 Tyr Leu Leu Lys Gln Ile Phe Pro Pro Ile Glu Arg Leu Cys Ala Pro
 85 90 95
 Ile Pro Gly Thr Asp Ala Val Arg Leu Ala Glu Cys Leu Gly Leu Asp
 100 105 110
 Val Arg Lys Tyr Gln Ile Asn Thr Ser Ser Gly Ser Asn Gln Gln Asn
 115 120 125
 Ala Asp Ile Phe Pro Leu Glu Ser Gln Ile Pro Asp Ser Val Arg Phe
 130 135 140
 Glu Asn Ala Ala Arg Leu Thr Leu Thr Cys Arg Ser Cys Lys Glu Lys

12713

145 150 155 160
 Ser Ile Phe Glu Gly Leu Val Ala Ser Thr His Met Cys Thr Ala Asn
 165 170 175
 Gly Ile Val Cys Pro Asn Gln Ala Cys Gln Lys Pro Phe Thr Val Leu
 180 185 190
 Thr Ile Ile Ala Gln Leu Glu Ser Gln Ile Arg Ala Gln Thr Ser Lys
 195 200 205
 Tyr Tyr Glu Gly Trp Leu Val Cys Asp Asp Ser Ala Cys Gly Asn Arg
 210 215 220
 Thr Arg Gln Met Ser Val Tyr Gly His Arg Cys Leu Gly Pro Arg Gly
 225 230 235 240
 Arg Ala Glu Gly Cys Leu Gly Arg Met Thr Tyr Glu Tyr Ser Glu Lys
 245 250 255
 Gln Met Tyr Asn Gln Leu Leu Tyr Phe Ala Gly Leu Trp Asp Val Asp
 260 265 270
 Lys Ala Lys Val Asn Ala Gln Lys Glu Ala Ser Gly Glu Lys Lys Asp
 275 280 285
 Ser Ile Ala Ala Leu Val Glu Phe Asn Arg Thr Arg Phe Gly Thr Ile
 290 295 300
 Lys Asp Val Val Asp Gly Tyr Leu Lys Lys Cys Gly Arg Gln Trp Val
 305 310 315 320
 Glu Met Asp Ala Leu Phe Pro Ser Ser Thr Thr Gly Arg Gln Gly Thr
 325 330 335
 Ala Ile Glu

<210> 32403

<211> 171

<212> PRT

<213> A.fumigatus

<400> 32403

Lys Arg Leu Ala Asn Gly Ala Gly Asn Ser Trp Ala Arg Thr Leu Ser
 1 5 10 15
 Gly Thr Arg Ala Glu Arg Asn Glu Tyr Ile Leu Leu His Glu Phe His
 20 25 30
 Arg Asn Lys Tyr Ile Cys Pro Asp Lys Tyr Ser Ser Lys Leu Gln Lys
 35 40 45
 Ala Glu Glu Lys Tyr Gln Asp Gly Asp Asp Asp Ala Gly Asp Lys
 50 55 60
 Lys Lys Lys Asp Lys Tyr Lys Gly Gly Leu Val Phe Glu Pro Glu Lys
 65 70 75 80
 Gly Leu Tyr Asp Lys Phe Val Leu Val Met Asp Phe Asn Ser Leu Tyr
 85 90 95
 Pro Ser Ile Ile Gln Glu Tyr Asn Ile Cys Phe Thr Thr Val Asp Arg
 100 105 110
 Thr Ala Thr Val Ser Thr Gln Pro Leu Ser Arg Gln Ile Leu Leu Thr
 115 120 125
 Thr Pro Thr Asn Val Ile Phe Arg Leu Lys Met Arg Thr Lys Lys Lys
 130 135 140
 Phe Pro Lys Phe Leu Arg Arg Ile Lys Asn Arg Val Phe Phe Leu Asn
 145 150 155 160
 Ser Leu Pro Arg Leu Leu Val Ala Gly Ala Lys
 165 170

<210> 32404

<211> 226
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (61), (65)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32404
 Leu Gln Ala Gly Thr Ala Asp Ala Ala Val Asp Glu Val Thr Glu Leu
 1 5 10 15
 Phe Lys Gly Leu Ser Lys Lys Lys Lys Thr Lys Lys Pro Lys Asp Thr
 20 25 30
 Glu Ala Gly Glu Gly Asp Asp Ala Ala Thr Ala Asp Gly Glu Phe
 35 40 45
 Asp Pro Thr Ala Leu Lys Lys Lys Lys Lys Val Xaa Lys Val Asn
 50 55 60
 Xaa Gly Asp Phe Glu Ala Lys Leu Ala Glu Ala Gly Ile Ser Glu Lys
 65 70 75 80
 Ala Ala Thr Glu Glu Lys Glu Gly Glu Leu Pro Glu Gly Asp Leu Glu
 85 90 95
 Ala Gly Thr Gly Ile Trp Ala His Asp Ala Thr Gln Ala Ile Pro Tyr
 100 105 110
 Ser Leu Leu Val Ser Arg Phe Phe Ser Leu Ile Gln Ser Gln His Pro
 115 120 125
 Asp Leu Leu Ser Asn Gly Thr Lys Ser Tyr Lys Ile Pro Pro Pro Gln
 130 135 140
 Cys Leu Arg Glu Gly Asn Arg Arg Thr Ile Phe Ala Lys Ile Ala Asp
 145 150 155 160
 Ile Cys Lys Arg Met Lys Arg Ser Asp Asp His Val Met Gln Phe Leu
 165 170 175
 Phe Ala Glu Leu Gly Thr Ser Gly Ser Val Asp Gly Ser Arg Arg Leu
 180 185 190
 Val Ile Lys Gly Arg Phe Gln Gln Lys Gln Ile Glu Asn Val Leu Arg
 195 200 205
 Arg Tyr Ile Gly Met Phe Leu Tyr Val Pro Leu Gly Phe Glu Tyr Tyr
 210 215 220
 Ser Ser
 225

<210> 32405
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 32405
 Gln Val Glu Pro Thr Pro Gln Lys Gln Arg Lys Ser Val Ala Phe Ser
 1 5 10 15
 Glu Gly Ala Val Ile Met Asp Thr Asn Gly Glu Val Thr Glu Ala Pro
 20 25 30
 Ala Pro Gln Ile Thr Thr Ala Glu Asn Glu Ala Gly Met Leu Leu Leu
 35 40 45
 Phe Leu Ser Leu Lys Pro Ala Thr Ala Ala Glu Thr Asp Phe Lys Gln
 50 55 60
 Ala Gln Gln Thr Pro Gln Ser Thr Lys

65

70

<210> 32406
 <211> 151
 <212> PRT
 <213> A.fumigatus

<400> 32406
 Gly Val Arg Leu Arg Pro Ser Gln Val Ser Ala Ile Phe Ser Glu Pro
 1 5 10 15
 Glu Lys Ser Thr Arg Leu Met Ile Arg Ser Gly Ala Met Ile Ala Met
 20 25 30
 Ser His Thr Ile Thr Leu Arg Gly Ser Ile Lys Phe Ser Leu Lys Lys
 35 40 45
 Met Phe Ala Gly Gly Glu Met Ser Leu Ser Thr Tyr Thr Gly Pro Gly
 50 55 60
 Glu Leu Leu Leu Ala Pro Ala Ala Leu Gly Asp Ile Ile Met Leu Arg
 65 70 75 80
 Phe Ser Gly Ser Asp Gln Trp Lys Val Gly Lys Asp Ala Phe Leu Ala
 85 90 95
 Ser Thr Ser Gly Ile Ser Lys Asp Tyr Gln Ala Gln Gly Leu Ser Lys
 100 105 110
 Gly Val Phe Ser Gly Glu Gly Leu Phe Val Tyr Lys Leu Ser Gly Val
 115 120 125
 Gly Leu Val Trp Leu Gln Ser Phe Gly Ala Ile Ile Arg Lys Asp Val
 130 135 140
 Ser Tyr Pro Ser Arg Ser Phe
 145 150

<210> 32407
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 32407
 Gln Ser Thr Ala Gln Ile Ala Asp Gly Glu Ser Tyr Tyr Val Asp Asn
 1 5 10 15
 Gly His Leu Val Ala Trp Asn Cys Lys Tyr Lys Met Glu Arg Val Ala
 20 25 30
 Ser Gly Gly Ile Ile Ser Asn Ile Ser Ser Gly Glu Gly Leu Ala Cys
 35 40 45
 Arg Phe Thr Gly Pro Gly Thr Val Tyr Leu Gln Thr Arg Asn Val Thr
 50 55 60
 Ala Phe Ala Ala His Ile Gly Ala His Thr Ala Ser Asn
 65 70 75

<210> 32408
 <211> 173
 <212> PRT
 <213> A.fumigatus

<400> 32408
 Ala Gln Arg Asp Thr Phe Gln Pro Arg Gly Glu Glu Cys Pro Phe Gly
 1 5 10 15
 Ala Ile His Ile Ile Asn Leu Pro Thr Asn Leu Glu Thr Glu Val Thr
 20 25 30

12716

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His Arg Tyr Ser Ala Asn Ser Phe Lys Leu His Arg Leu Pro Met Pro
  35                                40                                45
Arg Pro Gly Gln Val Leu Gly Leu Val Gly Thr Asn Gly Ile Gly Lys
  50                                55                                60
Ser Thr Ala Leu Lys Ile Leu Ser Gly Lys Leu Lys Pro Asn Leu Gly
  65                                70                                75                                80
Arg Tyr Asp Asn Pro Pro Asp Trp Glu Glu Ile Leu Arg Tyr Phe Arg
                                85                                90                                95
Gly Ser Glu Leu Gln Ser Thr Tyr Thr Ala Glu Ser Lys Lys Asn Pro
                                100                                105                                110
Arg Lys Phe Ser Met Ile Ser Asn Phe His Arg Leu Leu Tyr Gln Gly
                                115                                120                                125
Pro Gly Arg Gln Pro Glu Gly Arg Gly Gln Ala Pro Val Cys Leu Pro
                                130                                135                                140
Asp Ser Ser Gly Cys Glu Gly Pro Gly Gln Glu Arg Arg Gly Ala His
  145                                150                                155                                160
Gln Gly Pro Leu Ser Asp Gly Gln His Gly Thr His Pro
                                165                                170

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<210> 32409

<211> 63

<212> PRT

<213> A.fumigatus

<400> 32409

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Tyr Leu Thr Phe Ile Asp Tyr Phe Thr Lys Val Leu Glu Asp Asn Leu
  1                                5                                10                                15
Lys Ala Val Val Lys Pro Gln Tyr Val Tyr Gln Ile Pro Arg Ala Val
                                20                                25                                30
Lys Gly Pro Val Lys Asn Val Gly Glu Leu Ile Lys Ala Arg Ser Gln
                                35                                40                                45
Met Asp Asn Met Glu Arg Ile Leu Asp Ala Leu Gly Met Ala Ile
  50                                55                                60

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<210> 32410

<211> 435

<212> PRT

<213> A.fumigatus

<400> 32410

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Gln Ser Arg Leu Pro Thr Ser Met Leu Asn Ser Val Trp Arg Ala Ala
  1                                5                                10                                15
Arg Ser Ile Arg Glu Leu Leu Arg Pro Asp Asp Tyr Val Ile Val Val
                                20                                25                                30
Glu His Asp Leu Ser Val Leu Asp Tyr Leu Ser Asp Phe Val Cys Val
                                35                                40                                45
Leu Tyr Gly Arg Pro Ala Val Tyr Gly Val Val Thr Leu Pro Ala Ser
  50                                55                                60
Val Arg Glu Gly Ile Asn Ile Phe Leu Asp Gly His Ile Pro Thr Glu
  65                                70                                75                                80
Asn Leu Arg Phe Arg Glu Glu Ser Leu Thr Phe Arg Leu Ala Glu Ala
                                85                                90                                95
Gly Asp Asp Phe Met Val Asp Lys Ala Arg Ala Phe Ser Tyr Pro Ser
                                100                                105                                110
Met Glu Lys Thr Leu Gly Asn Phe His Leu Lys Ile Asp Ala Gly Ser
                                115                                120                                125

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12717

Phe Thr Asp Ser Glu Ile Ile Val Met Met Gly Glu Asn Gly Thr Gly
 130 135 140
 Lys Thr Thr Phe Cys Arg Met Leu Ala Gly Ala Glu Lys Pro Asp Gly
 145 150 155 160
 Asn Val Thr Met Pro Arg Met His Ile Ser Met Lys Pro Gln Lys Ile
 165 170 175
 Thr Pro Lys Phe Gln Gly Thr Val Arg Gln Leu Phe Phe Lys Arg Ile
 180 185 190
 Lys Ala Ala Phe Leu Ser Pro Gln Phe Gln Thr Asp Val Tyr Lys Pro
 195 200 205
 Leu Lys Ile Asp Asp Phe Ile Asp Gln Glu Val Gln Asn Leu Ser Gly
 210 215 220
 Gly Glu Leu Gln Arg Val Ala Ile Val Leu Ala Leu Gly Met Pro Ala
 225 230 235 240
 Asp Ile Tyr Val Ile Asp Glu Pro Ser Ala Tyr Leu Asp Ser Glu Gln
 245 250 255
 Arg Ile Val Ala Ala Arg Val Ile Lys Arg Phe Ile Met His Thr Lys
 260 265 270
 Lys Thr Ala Phe Ile Val Glu His Asp Phe Ile Met Ala Thr Tyr Leu
 275 280 285
 Ala Asp Arg Val Ile Val Phe Asp Gly Lys Pro Ser Val Asp Ala His
 290 295 300
 Ala Asn Ala Pro Glu Ser Leu Val Thr Gly Cys Asn Thr Phe Leu Arg
 305 310 315 320
 Asn Leu Asp Val Thr Phe Arg Arg Asp Pro Asn Ser Tyr Arg Pro Arg
 325 330 335
 Ile Asn Lys Tyr Asn Ser Gln Met Asp Gln Glu Gln Lys Leu Ala Gly
 340 345 350
 Asn Phe Val Ser His Pro Asn Pro Ile Arg Ala His Leu Phe Tyr Val
 355 360 365
 Ile Leu Ile Cys Phe Thr Ile Val Leu Leu Gly Gly Arg Glu Leu Lys
 370 375 380
 Arg Ala Ser Gln Ala Asn Ile Ile Ala Thr Ile Thr Gly Thr Met Val
 385 390 395 400
 Ala Met Leu Thr Arg Gly Asp Val Val Val Asn Gly Lys Pro Phe Val
 405 410 415
 Tyr Gly Arg Tyr Ser Gly Phe Pro Gly Ser Arg Val Ala Ala Leu Gly
 420 425 430
 Ala Gly Gly
 435

<210> 32411

<211> 152

<212> PRT

<213> A.fumigatus

<400> 32411

Ala His Arg Pro Pro Gln Ala Ala Asn Thr Thr Ser Pro Asn Ser Ser
 1 5 10 15
 Pro Gly Ala Ser Leu Tyr Pro Trp Ser Gln Arg Arg Leu Asn Phe Ser
 20 25 30
 Thr Pro Gln Gly Asn Pro Phe Pro Arg Tyr Gly Ala Ala Ile Asn Ala
 35 40 45
 Val Ala Ser Lys Glu Gly Asp Ile Tyr Met Met Gly Gly Leu Ile Asp
 50 55 60
 Gly Ser Thr Val Lys Gly Asp Leu Trp Met Val Glu Ser Ser Gly Gly

12718

65		70		75		80									
Asn	Leu	Ser	Cys	Phe	Pro	Ile	Ala	Thr	Val	Ser	Glu	Gly	Pro	Gly	Pro
				85					90					95	
Arg	Val	Gly	His	Ala	Ser	Leu	Leu	Val	Gly	Asn	Ala	Phe	Ile	Val	Phe
			100					105					110		
Gly	Gly	Asp	Thr	Lys	Val	Asp	Glu	Asn	Asp	Thr	Leu	Asp	Asp	Thr	Leu
		115					120					125			
Tyr	Leu	Leu	Asn	Thr	Cys	Gly	Phe	Pro	Ala	Leu	Phe	Gly	His	Leu	Gln
	130					135					140				
Arg	Thr	Phe	Thr	Leu	Leu	Thr	Leu								
145					150										

<210> 32412

<211> 98

<212> PRT

<213> A.fumigatus

<400> 32412

Phe	Pro	Ser	Ala	Ser	Arg	Gln	Trp	Ser	Arg	Ala	Ile	Pro	Pro	Asn	Pro
1				5					10					15	
Arg	Pro	Ala	Gly	Arg	Tyr	Gly	His	Thr	Ile	Asn	Ile	Leu	Gly	Ser	Lys
		20						25				30			
Leu	Tyr	Val	Phe	Gly	Gly	Gln	Val	Glu	Gly	Tyr	Phe	Phe	Asn	Asp	Leu
	35					40						45			
Val	Ala	Phe	Asp	Leu	Asn	Gln	Leu	Gln	Asn	Pro	Thr	Asn	Lys	Trp	Glu
	50					55					60				
Phe	Leu	Ile	His	Asn	Ser	His	Glu	Gly	Gly	Pro	Ser	Pro	Gly	Gln	Ile
65				70					75					80	
Pro	Pro	Ala	Arg	Thr	Asn	His	Thr	Met	Val	Ser	Phe	Asn	Asp	Lys	Leu
				85					90					95	
Tyr	Leu														

<210> 32413

<211> 331

<212> PRT

<213> A.fumigatus

<400> 32413

Arg	Phe	Gly	Gly	Thr	Asn	Gly	Leu	Gln	Trp	Phe	Asn	Asp	Val	Trp	Ser
1				5					10					15	
Tyr	Asp	Pro	Arg	Ala	Asn	Gln	Trp	Ser	Gln	Leu	Asp	Cys	Val	Gly	Phe
		20						25				30			
Ile	Pro	Thr	Pro	Arg	Glu	Gly	His	Ala	Ala	Ala	Leu	Val	Asn	Asp	Val
	35					40						45			
Met	Tyr	Ile	Phe	Gly	Gly	Arg	Thr	Asp	Glu	Gly	Ile	Asp	Leu	Gly	Asp
	50				55						60				
Leu	Ala	Ala	Phe	Arg	Ile	Thr	Thr	Arg	Arg	Trp	Tyr	Ser	Phe	Gln	Asn
65				70					75					80	
Met	Gly	Pro	Ala	Pro	Ser	Pro	Arg	Ser	Gly	His	Ser	Met	Thr	Ala	Phe
				85					90					95	
Gly	Lys	Gln	Ile	Ile	Val	Leu	Ala	Gly	Glu	Pro	Ser	Ser	Ala	Pro	Arg
		100						105					110		
Asp	Pro	Val	Glu	Leu	Ser	Met	Thr	Tyr	Ile	Leu	Asp	Thr	Ser	Lys	Ile
	115						120					125			
Arg	Tyr	Pro	Thr	Glu	Thr	Gln	Asn	Gly	Asp	Lys	Val	Gly	Ala	Pro	Pro

12719

130		135		140
Leu Ala Met Arg Lys Gly Ser Ser Asp Arg His Gly Ala Pro Thr Gly				
145		150		155
Arg Thr Ser Arg Glu Ala Gln Asn Thr Pro Pro Ala Asp Ser Gln Gln				160
	165		170	175
Arg Arg Gly Pro Gly Gln Thr Arg Glu Ser Met Met Val Ala Pro Asn				
	180		185	190
Gly Arg Pro Gly Asp His Gly Pro Gly Pro Gly Ser Arg Leu Pro Arg				
	195		200	205
Ala Ser Ile Ala Gln Ala Pro Ala Gly Pro Pro Pro Pro Gly Gln Ala				
	210		215	220
Pro Thr Pro Gly Pro Arg Gly Ser Thr Pro Gln His Ala Met Asn Pro				
225		230		235
Arg Ser Lys Thr Pro Thr Asp Arg Asn Tyr Gly Gly Pro Ala Ala Asp				240
	245		250	255
Thr Val Arg Thr Met Glu Ser Glu Arg Asp Arg Glu Ser Pro Val Ala				
	260		265	270
Arg Asp Ser Ser Lys Asp Pro Arg Ser Ala Asn Asp Pro Arg Ser Met				
	275		280	285
Ser Ser Gly His Arg Thr Pro Thr Gln Thr Pro Ser Arg Met Ser Ala				
	290		295	300
Lys Ser His Gly Gly Trp Arg Ser Cys Ser Phe Ser Gln Thr Ala Leu				
305		310		315
Ser Thr Ser Ala Ser Pro Thr Gln Leu His Gly				320
	325		330	

<210> 32414

<211> 127

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (23)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32414

Ser Phe Val Pro Cys Gly Glu Asp Pro Glu Arg Ile Asp Ser Leu Gln				
1	5	10	15	
Cys Leu Gly Gly Pro Pro Xaa Glu Ser Ser Lys Gly Asn Tyr Gly Val				
	20	25	30	
Gln Gly Ser Met Arg Gly Ser Met Lys Asn Pro Trp Ser Trp Asp Asn				
	35	40	45	
Thr Ala Met Val Tyr Gly Gly Lys Lys Asn Gln Phe Thr Trp Asn Asn				
	50	55	60	
Asn Cys Gly Asn Thr Thr Ala Gln Asn Cys Gly Asn Thr Val Ser Thr				
65	70	75	80	
Asn Cys Gly Asp Thr Ser Thr Tyr Asn Asn Thr Lys Thr Ile Gln Thr				
	85	90	95	
Gly Asp Ile Ser Ser Asn Gly Gly Asn Ala Ser Asn Ala Ser Gly Thr				
	100	105	110	
Ala Ser Gly Gly Ser Gly Gly Arg Ile Ile Ile Asp Gly His Asp				
	115	120	125	

<210> 32415

<211> 69

<212> PRT

<213> A.fumigatus

<400> 32415

Cys Ile Leu Pro Phe Asp Ile Thr Leu Val Gly Thr Lys Thr Tyr Val
 1 5 10 15
 Glu Arg Leu Asn Leu Gly Met Ala Lys Thr Ile Cys Leu Pro Thr Pro
 20 25 30
 Leu Ala Pro Gln Leu Thr Leu Ile Tyr His Lys Leu Val Ile Tyr His
 35 40 45
 Leu Val Ser Ser Ser Pro Ala Ile Tyr Pro Glu Asp Tyr Glu Ile Ile
 50 55 60
 Gln Phe Leu Leu Ala
 65

<210> 32416

<211> 496

<212> PRT

<213> A.fumigatus

<400> 32416

Cys Leu Pro Ser Glu Arg Gly Ser Ser Ser Pro Ala Ala Lys Leu Ser
 1 5 10 15
 Lys Gly Pro Ser Ser Pro Lys Arg Leu Asp Glu Ala Ile Lys Gly Ser
 20 25 30
 Lys Phe Met Lys Arg Leu Ile Gly Phe Tyr Arg Pro Phe Lys Tyr Arg
 35 40 45
 Phe Ser Met Val Pro Asn Thr Lys Pro Asn Gln Arg Tyr Ile Arg Thr
 50 55 60
 Gly Cys Ala Leu Met Arg Thr Leu Val Gln Val Pro Glu Gly Thr Lys
 65 70 75 80
 Tyr Leu Ala Glu Asn Lys Phe Leu Arg Gln Val Ala Glu Cys Leu Ala
 85 90 95
 Gln Val Asp Arg Met Ser Gly Leu Thr Ser Ser Ser Pro Leu Phe Ser
 100 105 110
 Arg Glu Gln Met Ala Thr Thr Leu Ser Gly Gly Tyr Phe Ala Met Leu
 115 120 125
 Gly Thr Leu Ser Gly Asp Pro Asn Gly Leu Ala Met Met Glu Arg Trp
 130 135 140
 His Met Leu Asn Met Phe Tyr His Ile Ile Glu Leu Arg Asp Arg Asp
 145 150 155 160
 Asp Leu Ile Gln Thr Leu Leu Gly Asn Leu Asp Tyr Ser Gln Glu Ser
 165 170 175
 His Leu Arg Val Leu Leu Ser Lys Ala Leu Thr Thr Gly Ser Lys Asp
 180 185 190
 Ile Arg Ile Phe Ala Thr Lys Leu Leu Arg Lys Tyr Ala Val Gly Asn
 195 200 205
 Ala His Leu Ser Ala Gln Gly Gly Leu Gly Arg Ala Asp Trp Val Val
 210 215 220
 Lys Leu Leu Val Thr Gln Leu Tyr Asp Pro Asp Val Ser Val Cys Gln
 225 230 235 240
 Ile Ala Val Lys Ile Leu Glu Glu Ala Cys Asn His Arg Asp Tyr Leu
 245 250 255
 Glu Tyr Val Val Lys Cys Arg Pro Ser Leu Asp His Leu Gly Glu Ile
 260 265 270
 Gly Ala Pro Leu Leu Leu Arg Phe Leu Ser Thr Ser Val Gly Tyr His

12721

275					280					285					
Tyr	Leu	Asp	Gly	Leu	Asp	Tyr	Ile	Thr	Gln	Glu	Met	Asp	Asp	Trp	Phe
290					295					300					
Leu	Gly	Arg	Asn	Asp	Ala	Tyr	Val	Gly	Leu	Val	Glu	Ala	Ala	Leu	Ser
305					310					315					320
Arg	Ala	Tyr	Val	Asp	Gln	Pro	Arg	Arg	Gly	Ser	Phe	Ala	Pro	Glu	Asp
				325					330					335	
Phe	Val	Asp	Leu	Gln	Asp	Val	Gly	Val	Val	Pro	Pro	His	Phe	Tyr	Arg
			340				345					350			
Glu	Leu	Ala	Arg	Thr	Lys	Glu	Gly	Cys	Arg	Leu	Leu	Glu	Gln	Ser	Gly
	355					360				365					
His	Phe	Ser	Glu	Phe	Ala	Trp	Thr	Ile	Arg	Asp	Phe	Arg	Leu	Asp	Glu
	370					375				380					
Glu	Asp	Thr	Glu	Ala	Leu	Lys	Val	Lys	Gly	Cys	Leu	Trp	Ala	Val	
385					390					395				400	
Gly	Asn	Val	Gly	Ser	Met	Glu	Leu	Gly	Ala	Pro	Phe	Leu	Glu	Thr	Asp
				405					410					415	
Ile	Val	Gln	Gln	Ile	Val	Lys	Ile	Ala	Glu	Ser	Ala	Glu	Val	Leu	Thr
		420					425					430			
Met	Arg	Gly	Thr	Ala	Phe	Phe	Val	Leu	Gly	Leu	Ile	Ser	Arg	Ser	Arg
	435					440					445				
His	Gly	Leu	Lys	Val	Leu	Arg	Glu	Ala	Gly	Trp	Asp	Ser	Ala	Val	Asp
	450				455					460					
Gln	Lys	Gly	Asp	Ser	Ile	Gly	Leu	Ser	Leu	Pro	Thr	Asp	Phe	Lys	Lys
465					470				475					480	
Leu	Phe	Leu	Val	Gly	Asn	Thr	Leu	Ala	Val	Thr	Ala	Ser	Lys	Val	Tyr
			485				490						495		

<210> 32417
 <211> 84
 <212> PRT
 <213> A.fumigatus

<400> 32417
 Trp Thr Val Ser Trp Leu Gly His Pro Phe Trp Ala Phe Val Thr Phe
 1 5 10 15
 Ser Ser Ser Tyr Val Lys Thr Ile Ile Val Thr Tyr Leu Phe Leu Pro
 20 25 30
 Leu Leu Ser Leu Thr Val Asn Asp Asp Asp Gly Tyr Glu Pro Pro Tyr
 35 40 45
 Cys Ile Pro Asp Phe Lys Val Arg His Ser Thr Arg Asn Ala Thr Phe
 50 55 60
 Ser Ser Arg Val Pro Pro Ser Val Leu Val Trp Arg Ser Gly Met Ser
 65 70 75 80
 Ser His Glu Gln

<210> 32418
 <211> 403
 <212> PRT
 <213> A.fumigatus

<400> 32418
 Arg Pro Gly Phe Leu Glu Lys Arg Arg Asp Phe Trp Glu Asp Leu Arg
 1 5 10 15
 Arg Gly Asn Lys Thr Leu Gly Cys Pro Gly Asp Glu Gln Phe Thr Gly

<400> 32419

12723

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Leu Gly Ser Ala Arg Gly Ser Val Ala Phe Pro Pro Gly Asn Arg Gln
1          5          10          15
Val Lys Ser Pro Val Asn Cys Ser Ser Pro Gly His Pro Ser Val Leu
          20          25          30
Phe Pro Leu Arg Lys Ser Ser Gln Lys Ser Leu Leu Phe Ser Arg Asn
          35          40          45
Pro Gly Arg His Lys Ile Arg Phe Gly Ile Trp Gly Phe Lys Leu Met
          50          55          60
Pro Leu Glu Ile Pro His Leu Ile Ser Arg Ile Pro His Asn Pro Thr
65          70          75          80

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<210> 32420

<211> 180

<212> PRT

<213> A.fumigatus

<400> 32420

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Pro Arg Leu Ser Ala Thr Ser Ser Phe Leu Glu Ser Gly Trp Gln Ser
1          5          10          15
Thr Arg Ser Ser Arg Pro Ser Phe Pro His Thr Leu Thr Ile Gln Ile
          20          25          30
Pro Ser Arg Asp Arg Lys Tyr Thr Gln Val Gly Trp Lys Pro Arg Ala
          35          40          45
Gly Asn Ser Lys Lys Leu Val Ile Gly Leu Asp Pro Val Pro Lys Phe
          50          55          60
Leu His Arg Leu Val Asp Gly Trp Ala Pro Asp Gly Ser Met Val Val
65          70          75          80
Ser Phe Lys Leu Gly Asn Arg Ser Gln Pro Ala Cys Leu Gln Gly Ala
          85          90          95
Asp Gly Ala Glu Ala Val Leu Thr Pro Ser Gly Tyr Trp Gln Pro Ser
          100          105          110
Leu Asn Thr Gln Met Gly Gly Arg Leu Cys Asp Ala Arg Ser Pro Ile
          115          120          125
Arg Thr Leu Asp Ser Gly Ala Gln Val Glu Thr Glu Gln Glu His Leu
          130          135          140
Trp Cys Gly Arg Ser Gly Gly Pro Gly Arg Gly Arg Glu Ser Glu Arg
145          150          155          160
Ile Gly Glu Pro Ser Gln Trp Gly Ser Pro Arg Gly Gln Arg Pro Glu
          165          170          175
Thr Ser Lys Cys
          180

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<210> 32421

<211> 158

<212> PRT

<213> A.fumigatus

<400> 32421

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Ser Val Trp Thr Arg Cys Pro Ser Phe Cys Ile Asp Trp Trp Thr Ala
1          5          10          15
Gly His Leu Met Glu Val Trp Leu Ser Pro Ser Ser Trp Glu Thr Asp
          20          25          30
Pro Asn Leu Leu Val Tyr Lys Ala Arg Thr Ala Leu Lys Arg Tyr Ser
          35          40          45
His His Leu Val Ile Gly Asn Leu Leu Ser Thr Arg Lys Trp Glu Val
          50          55          60

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12724

Val	Phe	Val	Thr	Pro	Asp	Pro	Pro	Tyr	Glu	Arg	Trp	Ile	Arg	Val	Pro
65					70					75					80
Lys	Ser	Arg	Arg	Ser	Lys	Ser	Ile	Ser	Gly	Ala	Glu	Asp	Gln	Val	Gly
				85					90					95	
Leu	Ala	Glu	Ala	Gly	Arg	Ala	Ser	Glu	Ser	Ala	Asn	Arg	Pro	Ser	Gly
			100					105					110		
Glu	Ala	Arg	Glu	Asp	Asn	Asp	Gln	Lys	Pro	Ala	Ser	Val	Asn	Thr	Ala
		115					120					125			
Glu	Gly	Val	Glu	Ile	Glu	Ser	Leu	Ile	Ile	Pro	Glu	Leu	Val	Gln	Leu
	130					135					140				
His	Ser	Asn	Met	Ile	Ala	Lys	Gln	Gln	Ala	Lys	Gln	Arg	Pro		
145					150					155					

<210> 32422

<211> 275

<212> PRT

<213> A.fumigatus

<400> 32422

[illegible]

<210> 32423
 <211> 61
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (37), (58)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32423
 Arg Ala Ile Gly Gly Leu Lys Ala Ser Ile Ala Leu Asn Ser Ser Val
 1 5 10 15
 Ile Val Trp Phe Thr Phe Arg Leu Gly Arg Thr Tyr Leu Ile Lys Ser
 20 25 30
 Pro Pro Ser Ala Xaa Gly Ala Pro Leu Gln Phe Phe Ser Thr Tyr Ile
 35 40 45
 Ile Arg Leu Thr Leu Phe Gln Gly Leu Xaa Asn Cys Ser
 50 55 60

<210> 32424
 <211> 99
 <212> PRT
 <213> A.fumigatus

<400> 32424
 Thr Gln Pro Thr Arg Gln Val Asp Phe Pro Val Gly Pro Lys Lys Gly
 1 5 10 15
 Lys Arg Gly Gly Thr Lys Arg Lys Glu Glu Phe Arg Lys Met Leu Ala
 20 25 30
 Lys Gln Asn Gly Asn Lys Val Asp Glu Glu Leu Gln Glu Val Val
 35 40 45
 Lys Lys Thr Trp Asp Ser Asn Val Ile Thr Pro Gly Thr Pro Phe Met
 50 55 60
 Asp Ile Leu Ala Ala Ser Leu Arg Tyr Trp Ile Ala Tyr Lys Leu Asn
 65 70 75 80
 Thr Asp Pro Ala Trp Glu Lys Val Arg Tyr Phe Gly Gly Ser Asn Ala
 85 90 95
 Asn Ala Cys

<210> 32425
 <211> 605
 <212> PRT
 <213> A.fumigatus

<400> 32425
 Asp Ala Asp Leu Ile Met Leu Gly Leu Ala Thr His Glu Pro His Phe
 1 5 10 15
 Arg Val Leu Arg Glu Asp Val Phe Phe Gln Glu Ser Arg Ala Arg Thr
 20 25 30
 Cys His Leu Cys Gly Gln Gln Gly His Lys Ala Glu Glu Cys Arg Gly
 35 40 45
 Gln Ala Lys Glu Lys Asn Gly Glu Phe Asp Glu Lys Gln Lys Gly Ser
 50 55 60
 Ser Leu Lys Pro Phe Ile Trp Leu His Val Ser Ile Leu Arg Glu Tyr

65		70		75		80									
Leu	Ala	Ala	Glu	Leu	Tyr	Val	Pro	His	Gln	Pro	Phe	Pro	Phe	Asp	Leu
		85							90					95	
Glu	Arg	Ala	Leu	Asp	Asp	Trp	Val	Phe	Met	Cys	Phe	Phe	Val	Gly	Asn
		100						105					110		
Asp	Phe	Leu	Pro	His	Leu	Pro	Ser	Leu	Asp	Ile	Arg	Glu	Asn	Gly	Ile
		115					120					125			
Asp	Thr	Leu	Ile	Ala	Ile	Trp	Arg	Asp	Asn	Ile	Pro	Val	Met	Gly	Gly
		130				135					140				
Tyr	Leu	Thr	Glu	Asp	Gly	His	Val	Asp	Leu	Lys	Arg	Ala	Gln	Leu	Ile
145					150					155				160	
Leu	Gln	Gly	Leu	Ala	Lys	Gln	Glu	Asp	Ala	Ile	Phe	Arg	Arg	Arg	Arg
			165					170						175	
Gln	Ala	Glu	Glu	Arg	Lys	Leu	Ala	Asn	Glu	Lys	Arg	Arg	Lys	Gln	Glu
		180					185						190		
Ala	Lys	Ala	Arg	Glu	Glu	Glu	Arg	Ala	Arg	Lys	Arg	Arg	Arg	Ser	Ser
		195					200						205		
Pro	Thr	Tyr	Glu	Pro	Met	Asp	Ser	Pro	Val	Gly	His	Arg	Ala	Pro	Arg
		210				215					220				
Gly	Gly	Gly	Asp	Ala	Ala	Pro	Pro	Asn	Gln	Leu	Glu	Leu	Ile	Thr	Pro
225					230					235				240	
Ser	Arg	Gly	Glu	Leu	Ser	Arg	Gln	Thr	Arg	Glu	Leu	Thr	His	Ser	Met
			245					250						255	
Val	Val	Asn	Arg	Gly	Ala	Val	Tyr	Arg	Ala	Asn	Met	Ala	Asn	Lys	Ser
			260					265					270		
Ala	Ala	Ala	Val	Leu	Lys	Ser	Lys	Leu	Met	Gln	Gly	Ser	Gln	Asn	Gly
		275					280					285			
Gln	Asn	Gly	Glu	Glu	Lys	Ser	Glu	Gly	Ala	Thr	Thr	Asn	Asn	Asp	Glu
		290				295					300				
Pro	Ser	Gln	Asp	Gln	Pro	Asp	Gln	Thr	Glu	Gln	Thr	Ser	Pro	Ser	Val
305					310					315				320	
Leu	Gly	Lys	Arg	Lys	Ala	Asp	Leu	Val	Glu	Glu	Glu	Asp	Thr	Asp	Ala
			325						330					335	
Gly	Thr	Pro	Gly	Arg	Asp	Ser	Pro	Ala	Val	Pro	Val	Ala	Ala	Lys	Glu
		340						345					350		
Asp	Glu	Leu	Pro	Pro	Asp	Thr	Val	Arg	Leu	Trp	Glu	Glu	Gly	Tyr	Ala
		355				360						365			
Asp	Arg	Tyr	Tyr	Glu	Gln	Lys	Phe	Gly	Val	Asp	Pro	Gln	Asp	Lys	Glu
		370				375				380					
Phe	Arg	His	Lys	Val	Ala	Arg	Ala	Tyr	Ala	Glu	Gly	Leu	Ala	Trp	Val
385					390					395				400	
Leu	Leu	Tyr	Tyr	Phe	Gln	Gly	Cys	Pro	Ser	Trp	Thr	Trp	Tyr	Tyr	Pro
			405					410						415	
Tyr	His	Tyr	Ala	Pro	Phe	Ala	Ala	Asp	Phe	Val	Asp	Ile	Gly	Asp	Met
			420					425					430		
Glu	Ile	Thr	Phe	Asp	Lys	Gly	Val	Pro	Phe	Lys	Pro	Phe	Glu	Gln	Leu
		435				440						445			
Met	Gly	Val	Leu	Pro	Ala	Ser	Ser	Asn	His	Ala	Ile	Pro	Lys	Val	Phe
		450				455					460				
His	Asp	Leu	Met	Ser	Ser	Pro	Asp	Ser	Glu	Ile	Ile	Asp	Phe	Tyr	Pro
465					470					475				480	
Glu	Asp	Phe	Ala	Val	Asp	Leu	Asn	Gly	Lys	Lys	Phe	Ala	Trp	Gln	Gly
			485					490						495	
Val	Ile	Leu	Leu	Pro	Phe	Ile	Asp	Glu	Lys	Arg	Leu	Leu	Ala	Ala	Met
		500						505					510		
Glu	Lys	Lys	Tyr	Pro	Leu	Leu	Thr	Glu	Asp	Glu	Lys	Leu	Arg	Asn	Ser

12727

515		520		525
Val Gly Arg Glu Val Leu Leu Ile Ser Glu Ala His Pro Leu Tyr Gln				
530		535		540
Asp Leu Val Ala Asn Phe Tyr Ser Lys Lys Gln Gly Val Gln Lys Tyr				
545		550		555
Lys Leu Asn Met Arg Ile Ser Asp Gly Leu Ala Gly Lys Val Glu Arg				
		565		570
Asn Glu Ala Tyr Ile Pro His Ser Ser Leu Pro Ser Ser Leu Glu Glu				
		580		585
Tyr Gly Met Pro Ser Leu Glu Asp Asp Arg Ser Leu Thr				
595		600		605

<210> 32426

<211> 223

<212> PRT

<213> A.fumigatus

<400> 32426

Leu Thr Ser Phe His Pro Ser Val Asn Tyr Glu Ile Pro Lys Ser Asn				
1	5		10	15
His Val His Lys Ser Met Leu Leu Arg Gly Val Lys Phe Asn Pro Pro				
	20		25	30
Ala Leu Asp Asn Ala Asp Ile Gln Ala Val Lys His Lys Ala Gln Asn				
	35		40	45
Ser Gly Arg Ser Tyr Gly Gly Ala Pro Leu Arg Gly Gly Gln Lys Gly				
	50		55	60
Gly Arg Ile Asn Tyr Ala Ser Asp Arg Pro Asn Pro Phe Ala Ala His				
65	70		75	80
Leu Asp Pro Gly Phe Ile Pro Pro Val Pro Gly Asn Val Gly Gly Gly				
	85		90	95
Pro Ile Met Pro Ser Gly Trp Val Pro Pro Ile Pro Gly Ser Ala Gly				
	100		105	110
Phe Ser Arg Gly Pro Pro Pro Pro His Gly Gly Met Ser Gly Ser				
	115		120	125
His His Arg Pro Pro Tyr Gly Gln Gly Pro Gly Gln Tyr Gln Gly Asn				
	130		135	140
His Gly Gln Gly Asp His Tyr Gly Gln Gly Gln Gln Gly Tyr Tyr Asn				
145	150		155	160
Gln Ser Ser Tyr Tyr Asn Gln Ser Asn Gln Tyr Asn Gly Arg Ser Ser				
	165		170	175
Asp His Gly Gly Ser Gly Gly Tyr Arg Gly Gly Gly Gly Tyr His Arg				
	180		185	190
Gly Gly Asn Tyr Arg Gly Gly Gly Tyr Arg Asp Gln Arg Gln Tyr Asn				
	195		200	205
Gln Asp Gln Tyr Ser Ser Arg Asn Ser Gly Gly Tyr Gly Arg Tyr				
210		215		220

<210> 32427

<211> 75

<212> PRT

<213> A.fumigatus

<400> 32427

Gly Gly Arg Ile Ile Asp Glu Cys Val Gln Val Gly Phe Asn Ala Asn				
1	5		10	15
Thr Phe Cys Ser Phe Ser Val Leu Thr Asn Leu Gly Cys Ser Ala Leu				

<220>

<221> UNSURE

<222> (356), (381), (386)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32430

Arg	Gln	Glu	Arg	Glu	Arg	Lys	Glu	Arg	Glu	Glu	Arg	Glu	Ala	Tyr	Glu
1				5					10					15	
Ala	Asn	Leu	Lys	Gln	Ala	Glu	Ala	Glu	Ala	Glu	Ala	Leu	Glu	Glu	Glu
			20					25					30		
Arg	Gln	Arg	Lys	Arg	Glu	Ala	Ala	Ala	Glu	Thr	Ser	Asn	Lys	Glu	Leu
			35				40					45			
Phe	Ala	Ala	Leu	Lys	Lys	Gly	Gly	Leu	Ala	Ala	Thr	Glu	Asp	Ser	Thr
	50					55					60				
Pro	Ala	Asp	Ser	Gly	Thr	Ala	Thr	Pro	Val	Ser	Asp	Ile	Ser	Met	Gly
65					70					75					80
Pro	Pro	Gly	Lys	Pro	Ala	Ser	Ala	Gln	Lys	Arg	Glu	Lys	Pro	Ala	Ala
				85					90					95	
Leu	Lys	Leu	Glu	Thr	Thr	Lys	Ala	Val	Glu	Pro	Pro	Gln	Pro	Ser	Ala
			100					105					110		
Ala	Met	Lys	Ser	Leu	Gln	Ser	Ala	Arg	Phe	Val	Asp	Asp	Leu	Ser	Lys
		115					120					125			
Ile	Asn	Tyr	Pro	Pro	Ser	Ile	Val	Ser	Pro	Asn	Pro	Ala	Leu	Asn	Ala
	130					135					140				
Asn	Ala	Pro	Ala	Asp	Arg	Lys	Phe	His	Tyr	Asn	Lys	Glu	Phe	Leu	Leu
145					150					155					160
Gln	Phe	Gln	Ser	Val	Phe	Lys	Glu	Lys	Pro	Ser	Ile	Asp	Trp	Asp	Ala
				165					170					175	
Arg	Val	Arg	Glu	Thr	Val	Gly	Glu	Ser	Asp	Thr	Ser	Arg	Pro	Gln	Ser
			180					185					190		
Ala	Arg	Thr	Pro	Met	Gly	Ala	Arg	Asn	Pro	Ser	Arg	Gly	Gly	Val	Ala
		195					200					205			
Gln	Pro	Phe	Val	Met	Gly	Ser	Phe	Gly	Gln	Pro	Ala	Ala	Arg	Thr	Thr
	210				215						220				
Ser	Glu	Gln	Arg	Phe	Ala	Ala	Ser	Asn	Ala	Arg	Gly	Pro	Ala	Met	Pro
225					230					235					240
Phe	Gly	Gln	Phe	Gly	Arg	Pro	Pro	Val	Gly	Met	Gly	Ala	Pro	Ser	Ile
				245					250					255	
Ser	Arg	Pro	Gly	Ser	Asn	Met	Gly	Ile	Gly	Pro	Gly	Thr	Pro	Arg	Gly
			260				265						270		
Gly	Gly	Ser	Arg	Ser	Asn	Thr	Arg	Thr	Gly	Ser	Lys	Arg	Glu	Lys	Gln
		275				280						285			
Ser	Ala	Lys	Lys	Glu	Glu	Glu	Met	Ala	Lys	Ala	Met	Pro	Leu	Thr	Ala
	290					295					300				
Gly	Lys	Glu	Val	Lys	Ala	Leu	Gln	Ile	Ser	Ser	Thr	Gly	Trp	Lys	Pro
305					310					315					320
Arg	Ser	Ile	Val	Gln	Pro	Ala	Ala	Gly	Pro	Thr	Pro	Gly	Gly	His	Leu
				325					330					335	
Pro	Pro	Asp	Met	Val	Gln	Arg	Lys	Val	Lys	Ala	Pro	Leu	Asn	Lys	Met
			340				345						350		
Thr	Leu	Arg	Xaa	Phe	Asp	Arg	Ile	Ser	Val	Gln	Phe	Leu	Glu	Ile	Val
		355				360						365			
Ser	Gln	Ser	Lys	Asp	Glu	Ser	Asp	Gly	Arg	Thr	Leu	Xaa	Gln	Val	Ile
	370					375					380				
Gln	Xaa	Thr	Phe	Glu	Lys	Ala	Thr	Asp	Glu	Ala	His	Trp	Ala	Ser	Ile

12730

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385          390          395          400
Tyr Ala Lys Phe Cys Lys Arg Met Leu Glu Ser Met Ser Pro Glu Ile
          405          410          415
Lys Asp Glu Asn Ile Arg Asp Lys Asn Gly Asn Val Val Thr Gly Gly
          420          425          430
Ser Leu Phe Arg Lys Tyr Leu Leu Asn Arg Cys Gln Glu Glu Phe Glu
          435          440          445
Arg Gly Trp Lys Val Asn Leu Pro Pro Lys Pro Glu Gly Thr Thr Glu
          450          455          460
Glu Ala Ala Met Leu Ser Asp Glu Tyr Tyr Ala Ala Ala Ala Lys
465          470          475          480
Arg Arg Gly Leu Gly Leu Val Lys Phe Ile Gly Glu Leu Tyr Lys Leu
          485          490          495
Gly Met Leu Thr Glu Arg Ile Met His Glu Cys Val Lys Lys Leu Val
          500          505          510
Asp Tyr Glu Gly Met Pro Glu Glu Ala Glu Val Glu Ser Leu Thr Ser
          515          520          525
Leu Leu Arg Thr Ile Gly Ala Ser Leu Asp Ala Ser Glu Arg Gly His
          530          535          540
Thr Phe Met Asp Ala Tyr Phe Ala Arg Ile Asn Met Met Met Asp Ile
545          550          555          560
Pro Gly Leu Pro Ser Arg Leu Arg Phe Met Leu Met Val Ser Leu Ser
          565          570          575
Pro Phe Arg Thr Cys Ser Phe Gly Ile Asn Leu Thr Asp Leu Gln Asp
          580          585          590
Ile Val Asp Leu Arg Asn Ala Arg Trp Gln Ser Lys Asp Ala Asp Lys
          595          600          605
Gly Pro Lys Thr Ile Gln Gln Ile Arg Glu Glu Val Cys Asp Arg Ser
          610          615          620

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<210> 32431

<211> 470

<212> PRT

<213> A.fumigatus

<400> 32431

```

Leu Pro Pro Arg Gly Glu Asp Ile Pro Phe Thr Ser Pro Lys Glu Val
1          5          10          15
Tyr Asp Glu Trp Arg Lys Met Ser Phe Gly Arg Pro Leu Asp Cys Ser
          20          25          30
Ala Leu Thr Tyr Glu Lys Leu Thr Gly Gly Ser Gly Ile Gln Trp Pro
          35          40          45
Cys Thr Lys Glu His Pro Tyr Gly Lys Asp Arg Leu Phe Asp Asp Gly
          50          55          60
Lys Phe Phe Thr Asp Thr Asp Tyr Cys Glu Ser Tyr Gly His Asp Leu
65          70          75          80
Glu Thr Gly Thr Pro Tyr Thr Arg Ala Gln Tyr Gln Ala Met Asn Pro
          85          90          95
Ala Gly Arg Ala Ile Leu Lys Ser Ala Gln Tyr Lys Pro Ser Leu Glu
          100          105          110
Ile Pro Asn Glu Asp Tyr Pro Leu Leu Leu Ser Thr Gly Arg Asn Val
          115          120          125
Phe His Phe His Thr Arg Thr Lys Thr Gly Arg Ala Arg Arg Leu Gln
          130          135          140
Gln Ala Asp Gln Glu Pro Ile Val Gln Ile Ser Val Glu Asp Ala Gln
145          150          155          160

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12731

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Ala Leu His Val Thr Glu Gly Glu Met Ala Val Val Arg Ser Arg Arg
      165                      170                      175
Gly Ser Val Glu Leu Pro Val Arg Ile Gly Gly Ile Asn Asp Gly His
      180                      185                      190
Val Phe Ile Pro Phe His Phe Gly Tyr Trp Asp Ala Thr Asp Gly Arg
      195                      200                      205
Ala Arg Ala Ala Asn Glu Leu Thr Ile Gly Arg Tyr Asn Val Glu Lys
      210                      215                      220
Thr Asp Trp Leu Glu Tyr Arg Ile Leu Thr Asn Ala Glu Gln Trp Asp
      225                      230                      235                      240
Pro Val Ser Lys Gln Pro Met Phe Lys Ser Gly Ala Val Arg Ile Glu
      245                      250                      255
Lys Cys Val Gln Lys Glu Ala Glu Arg Gln Thr Met Ala Val Arg Ser
      260                      265                      270
Val Glu Met Arg Lys Pro Asp Ala Ala Ser Ser Ala Gly Asp Asn Ser
      275                      280                      285
Asn Asp Lys Lys Pro Ile Arg Arg Met Glu Leu Trp Leu Gly Ala Thr
      290                      295                      300
Asp Gln Ala Leu Glu Met Leu Arg Asp Met Tyr Val Asp Met Ile Pro
      305                      310                      315                      320
Arg Leu Val His Asp Met Glu Ile Gln Ser Gly Leu Gln Val Met Arg
      325                      330                      335
Arg Ile Thr Cys Glu Ile Ser Asp Gln Phe Lys Pro Ile Ile Glu Arg
      340                      345                      350
Tyr His Glu Ser Gln Gln Tyr Gly Arg Arg Val Ala Glu His Leu Arg
      355                      360                      365
Asp Ser Ile Phe Pro Ala Ile Gly Glu Ser Lys Asp Pro Tyr Glu Ala
      370                      375                      380
Leu Ala Ala Leu Gln Ser Leu Asp Leu Phe Leu Thr Asp Ile Glu Gly
      385                      390                      395                      400
His Leu Thr Ala Leu Ser Pro Ala Ser Gln Ala Leu Trp Asp Cys Asp
      405                      410                      415
Phe Ile Glu Ala Val Lys Phe Ala Gln Lys Gly Ile Gln Arg Gln Lys
      420                      425                      430
Gly Trp Val Ser Gln His Ile Lys Val Lys Ser Pro Gln Thr Leu Leu
      435                      440                      445
Val Pro Ser Ala Ala Ala Glu Glu Leu Ser Gly Glu Asp Ser Arg Met
      450                      455                      460
Ala Gly Gln Ile Arg Cys
      465                      470

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<210> 32432

<211> 84

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (7)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32432

```

Leu Lys Thr Asn Asp Ala Xaa Ser Ser Ser Pro Val Val Lys Thr Leu
1          5          10          15
Glu Glu Leu Lys Thr His Ser Asn Gln Pro Val Ser Phe Gly Cys Arg
      20          25          30

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12732

Ser Ser Leu Leu Leu Ile His Ile Trp Thr Lys Gly Thr Asn Ser Asp
 35 40 45
 Ile Thr Ser Phe Phe His Ala Glu Val Arg Lys Val Pro Asp Asn Tyr
 50 55 60
 Arg Leu Phe Glu Ile Val Val Asn Ser Leu Leu Trp Ala Glu Ile Gly
 65 70 75 80
 Leu Phe Met Lys

<210> 32433
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 32433
 Glu Leu Lys Leu Asn Val Ser Ala Pro Thr Val Arg Ile Ile Ala Leu
 1 5 10 15
 Leu Glu Gly Pro Gly Tyr Thr Val Pro Gly Asn Leu Tyr Ala Ala Ser
 20 25 30
 Trp Ala Ile Gly Leu His Gln Leu Ile Ala Gly Leu Ala Ser Asn Phe
 35 40 45
 Ser Leu Phe Val Phe Thr Met Leu Ser Thr Ile Tyr Gln Phe His His
 50 55 60
 Thr Leu Leu Pro Leu Ile Leu Thr Glu
 65 70

<210> 32434
 <211> 201
 <212> PRT
 <213> A.fumigatus

<400> 32434
 Thr Ile Gln Leu Leu Ser His Asp Ser Thr Thr Ala Gln Gln Ile Pro
 1 5 10 15
 Ile Thr Ser Gln Leu Phe Ser Ile Tyr Thr Glu Leu Val Arg Pro Val
 20 25 30
 Tyr Ala Gly Ser Thr Leu His Ser Val Arg Ala Ala Phe Glu Lys Ala
 35 40 45
 Ile Gly Asp Pro Ala His Leu Pro His Thr Gly Thr Gly Ala Leu Thr
 50 55 60
 Asn Gly Val Ser Ser Ser Thr Ser Thr Ala Leu Ser Ser Leu Thr Leu
 65 70 75 80
 Trp Lys Leu Tyr Ile Met Phe Glu Leu Ser Arg His Glu Ile Asn Arg
 85 90 95
 Ala Lys Glu Val Phe Tyr Arg Ala Ile Arg Ala Cys Pro Trp Ser Lys
 100 105 110
 Glu Leu Val Met Leu Ala Phe Thr His Leu Arg Ala Asp Val Val Arg
 115 120 125
 Asp Arg Tyr Lys Asp Ser Pro Arg Lys Gly Glu Gly Met Gly Phe Asp
 130 135 140
 Glu Leu Arg Arg Val Tyr Asn Val Leu Val Glu Lys Glu Leu Arg Ile
 145 150 155 160
 His Val Asp Ile Glu Glu Glu Leu Asp Arg Leu Ala Ala Arg Arg Leu
 165 170 175
 Glu Asp Ala Ala Met Ser Leu Gly Pro Ile Gln Met Pro Asp Asp Ala
 180 185 190

12733

Glu Ser Glu Gly Glu Arg Met Gln Leu
195 200

<210> 32435
<211> 179
<212> PRT
<213> A.fumigatus

<400> 32435
Thr Arg Trp Gly Cys Thr Lys Ser Pro Ser Arg Thr Ala Arg Lys Cys
1 5 10 15
Pro Ser Cys Ser Ser Thr Asp Leu Thr Ala Pro Pro Pro Arg Thr Ser
20 25 30
Leu Lys Thr Lys Leu Pro Ser Ser Ala Pro Ala Ser Val Ser His
35 40 45
Pro Gly Pro Pro Phe Ser Arg Thr Ser Gly Thr Ser Ala Gln Asp Arg
50 55 60
Thr Arg Pro Ala Val Tyr Val Gly Ser Ser Ser Ser Gly Ser Ala Lys
65 70 75 80
Thr Pro Pro Pro Ser Ser Gly Ser Arg Pro Phe Cys Pro Arg Ser Ser
85 90 95
Pro Ser Pro Pro Ala Pro Pro Pro Ala Arg Ala Val Pro Ser Ser Cys
100 105 110
Ala Ser Thr Pro Thr Ser Arg Ser Gly Ser Thr Arg Thr Leu Pro Pro
115 120 125
Thr Ser Thr Ser Thr Pro Ser Val Arg Arg Ser Thr Arg Ser Leu Ser
130 135 140
Ser Ala Val Ala Arg Thr Ser Ala Gly Leu Thr Ser Ile Gly Ser Ser
145 150 155 160
Arg Gln Cys Glu Thr Gly Cys Met Thr Arg His Thr Cys Leu Val Ser
165 170 175
Ile Arg Pro

<210> 32436
<211> 287
<212> PRT
<213> A.fumigatus

<400> 32436
Asp Ser Met Lys Tyr Lys Ala Gly Gln Trp Leu Phe Ile Gln Val Pro
1 5 10 15
Glu Val Ser Asn Thr Gln Trp His Pro Phe Thr Ile Thr Ser Cys Pro
20 25 30
Phe Asp Pro Tyr Ile Ser Ile His Val Arg Gln Val Gly Asp Phe Thr
35 40 45
Arg Ala Leu Gly Asp Ala Leu Gly Cys Gly Pro Ala Gln Ala Arg Asp
50 55 60
Met Glu Gly Leu Asp Pro Leu Gly Met Tyr Glu Val Ala Leu Gln Asn
65 70 75 80
Gly Gln Lys Met Pro Lys Leu Leu Val Asp Gly Pro Tyr Gly Ala Pro
85 90 95
Ala Glu Asp Val Phe Glu Asn Glu Ile Ala Val Leu Ile Gly Thr Gly
100 105 110
Ile Gly Val Thr Pro Trp Ala Ser Ile Leu Lys Asn Ile Trp His Leu
115 120 125

```

Arg Thr Gly Pro Asn Pro Pro Arg Arg Leu Arg Arg Val Glu Phe Ile
  130                      135                      140
Trp Val Cys Lys Asp Thr Ser Ser Phe Glu Trp Phe Gln Ala Leu Leu
 145                      150                      155                      160
Ser Ser Leu Glu Ser Gln Ser Ala Ser Ala Ala Ala Ser Gln Gly Ser
                      165                      170                      175
Ala Glu Phe Leu Arg Ile His Thr Tyr Leu Thr Gln Arg Leu Asp Glu
                      180                      185                      190
Asp Thr Ala Ala Asn Ile Tyr Leu Asn Ser Val Gly Gln Glu Val Asp
                      195                      200                      205
Pro Leu Thr Glu Leu Arg Ser Arg Thr Asn Phe Gly Arg Pro Asp Phe
                      210                      215                      220
Asn Arg Leu Phe Thr Ala Met Arg Asp Gly Leu His Asp Gln Thr Tyr
 225                      230                      235                      240
Met Pro Gly Phe His Pro Ala Met Thr Thr Glu Ile Gly Val Tyr Phe
                      245                      250                      255
Cys Gly Pro Asn Ala Ala Ala Arg Gln Ile Arg Glu Ala Ala Lys Arg
                      260                      265                      270
Ala Ser Thr Arg Asp Val Arg Phe Lys Phe Trp Lys Glu His Phe
                      275                      280                      285

```

<210> 32437

<211> 605

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (272)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32437

```

Pro Pro Val Tyr Leu Leu Val Lys Met Gln Lys Val Thr Arg His Ile
  1                      5                      10                      15
Pro Thr Lys Asp Asp Leu Gly Lys Ser Phe Ala Tyr Leu Arg Leu Leu
                      20                      25                      30
Phe Ser Leu Asp Tyr Thr Ile Ala Asp Val Leu Leu Ile Ile Gly Gly
                      35                      40                      45
Leu Leu Phe Ala Ile Cys Ala Gly Ile Pro Phe Pro Leu Leu Gly Ile
                      50                      55                      60
Val Phe Gly Asp Leu Ile Asn Asp Leu Asn Thr Val Thr Cys Ser Ser
 65                      70                      75                      80
Ser Asp Arg Ala Thr Ala Asp Leu Ser Ser Ala Val Arg Ala Lys Val
                      85                      90                      95
Leu Tyr Val Ile Tyr Ile Thr Ile Ala Asn Phe Cys Phe Ile Tyr Ala
                      100                      105                      110
His Ser Thr Cys Trp Cys Leu Val Ser Glu Arg Leu Ala Arg Arg Tyr
                      115                      120                      125
Arg Arg Arg Tyr Phe Glu Ser Ile Ile Lys Gln Glu Ala Lys Phe Ile
                      130                      135                      140
Glu Ser Leu Pro Ser Gly Asp Val Val Ser Arg Leu Val Ser Asp Ile
 145                      150                      155                      160
Glu Leu Val Gln Ser Gly Thr Ser Glu Lys Val Gly Leu Val Ile Ser
                      165                      170                      175
Thr Leu Ser Tyr Phe Val Ala Ala Tyr Val Val Ala Phe Ile Lys Val
                      180                      185                      190

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12735

```

Pro Lys Ile Ala Gly Met Leu Val Ser Val Val Pro Cys Phe Phe Leu
  195                                200                205
Met Ala Leu Gly Gly Gly His Tyr Ile Lys Lys Phe Ala Gly Arg Leu
  210                                215                220
Ala Glu Lys Val Asn Ala Ala Thr Ser Ile Ala Ser Ser Ser Leu Ser
  225                                230                235                240
His Leu Thr Leu Val His Ala Phe Asn Ala Asn Glu Arg Leu Glu Lys
  245                                250                255
Arg Phe Ala Gly Leu Leu Phe Ala Ser Lys Lys Asp Ala Val Arg Xaa
  260                                265                270
Ala Thr Thr His Ala Ala Gln Leu Gly Cys Leu Tyr Phe Ile Ala Tyr
  275                                280                285
Ser Ala Asn Ala Leu Ala Phe Trp Glu Gly Ser Gln Met Ile Ser Lys
  290                                295                300
Ser Val Ala Asp Gly Asn Ser Gly Thr Ser Val Gly Ala Val Tyr Thr
  305                                310                315                320
Val Ile Phe Val Leu Ile Asp Ala Ser Phe Ile Leu Ser Gln Val Ala
  325                                330                335
Pro Phe Ile His Val Phe Ala Ser Ala Ala Gly Ala Ser Glu Arg Leu
  340                                345                350
Leu Gln Val Ile Asn Arg Pro Ser Ala Ile Asp Gly Thr Ser Asp Ser
  355                                360                365
Gly Asp Lys Thr Ala Ala Phe Gly Glu Glu Asp Ile Arg Phe Arg Asp
  370                                375                380
Val His Phe Lys Tyr Pro Ser Arg Pro Asp Val Pro Val Leu Gln Gly
  385                                390                395                400
Val Thr Phe Asn Ile Pro Pro Lys Lys His Thr Ala Ile Val Gly Pro
  405                                410                415
Ser Gly Gly Gly Lys Ser Thr Val Val Ala Leu Leu Glu Arg Phe Tyr
  420                                425                430
Asp Pro Asp Ser Gly Asp Val Leu Ile Gly Asp Lys Asn Phe Arg Asp
  435                                440                445
Ile Asn Val Arg Tyr Leu Arg Gly Asn Ile Gly Tyr Val Gln Gln Glu
  450                                455                460
Pro Ser Leu Leu Asp Arg Thr Ile Leu Glu Asn Ile Ala Tyr Gly Leu
  465                                470                475                480
Leu Ser Ser Ala Met Glu Arg His Gln Arg Leu Ala Pro Phe Ile Leu
  485                                490                495
Asp Ser Ser Leu Pro Asp Leu Ala Glu Lys Ile Arg Glu Gly Leu Thr
  500                                505                510
Glu Lys Glu Ala Leu Arg Glu Tyr Asp Ser Val Ser Thr Arg Leu Trp
  515                                520                525
Thr Phe Ser Lys Lys Arg Leu Pro Met Arg Trp Arg Leu Ala Leu Leu
  530                                535                540
Lys His Trp Pro Ile Val Ser Pro Pro Asn Val Gly Thr Ala Arg Asn
  545                                550                555                560
His Phe Ser Gly Gly Gln Lys Ala Thr Ile Trp Phe Leu Pro Cys Ser
  565                                570                575
Trp Ser Arg Thr Leu Ala Val Tyr Ile Trp Thr Lys Gln Leu Ser Val
  580                                585                590
Leu Ile Leu Thr Val Glu Pro Leu Tyr Pro Gly Pro Phe
  595                                600                605

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<210> 32438

<211> 89

<212> PRT

<213> A.fumigatus

<400> 32438

```

Ile Ser Phe Ala Phe Asn Ser Phe Ile Leu His His Cys Leu Ser Thr
1          5          10          15
Leu Arg Leu Ala Leu Asp Thr Ala Pro Gly Gly Trp Arg Ala Asp Ala
          20          25          30
Gly Ile Leu Thr Tyr Ser Ser Arg Phe Leu Ser Leu Pro Leu Ile Tyr
          35          40          45
Ser Leu Cys Thr Ser Val Val Ser Asp Thr Phe Ala Pro Tyr Gly Gln
          50          55          60
Gln Ser Phe Lys Gly Pro Phe Arg Arg Cys Ser Ala Lys Phe Gly Leu
65          70          75          80
Ile Lys Phe Ile Gly Ser Arg Arg Arg
          85

```

<210> 32439

<211> 288

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (183)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32439

```

His Thr Val Val Ala Ser Cys Pro Ser Pro Ser Phe Ile Pro Cys Ala
1          5          10          15
His Arg Leu Ser Gln Thr His Ser Pro His Met Gly Asn Asn Pro Ser
          20          25          30
Lys Gly Pro Ser Gly Asp Ala Pro Ser Ser Ala Ser Ser Asn Leu
          35          40          45
Ser Ala Pro Ala Gly Asp Lys Lys Val Asn Arg Arg Pro Ser Thr Asn
          50          55          60
Ala Ile Ser Gly Ala Ala Lys Ala Thr Ala Ala Asp Pro Ser Ala Ser
65          70          75          80
Ile Glu Thr Ala Thr Gly His Ser Ala Thr Ala Arg Gln Thr Pro Val
          85          90          95
Gln Gln Arg Leu Gln Ser Arg Asn Ile Thr Asp Ser Ser Arg Gly Asn
          100          105          110
Ser Glu Arg His Asp Arg His Asp Ala Lys Lys Ala Glu Pro His Tyr
          115          120          125
Arg Asp Ile Pro Ser Pro Asp Pro Ser Asn Pro Val Gln Val Pro Val
          130          135          140
Ser Arg Ala Ala Ala Arg Asn Asp Ala Thr Val Ala Pro Ser Gly Pro
145          150          155          160
Pro Leu Asn Thr Tyr Tyr Ser Ala Ser Thr His Leu Gln Arg Pro Pro
          165          170          175
Arg Met Pro Leu Pro Ile Xaa Ala Met Gln Pro Leu Leu Gln Val His
          180          185          190
Arg Ser Ser Asp Arg Arg Leu Pro Ile Gly Phe Val Ser Gly Asp Arg
          195          200          205
Ser Leu Gly Glu Gln Ala Ser Gln Asp Asn Ala Gly Ile Thr Asn Thr
210          215          220
Ala Ile Asp Asp Glu Glu Thr Leu Asp Glu Leu Glu Pro Tyr Thr Pro

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12737

225		230		235		240
Ser Gly Val Gly Arg	Ala Val Pro Thr	Cys Ile Glu Trp	Asn Gly Pro			
	245	250	255			
Gly Glu Lys Val Tyr	Val Thr Gly Thr	Phe Val Asn Trp	Glu Lys Lys			
	260	265	270			
Tyr Arg Leu His Arg	Lys Tyr Val Thr	Leu His Ala Tyr	Cys Cys Val			
	275	280	285			

<210> 32440

<211> 224

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (215)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32440

Tyr Val Asn Ser Glu Ser Asn Pro Gly Val Met Ser Thr Thr Leu Asn																			
1		5					10						15						
Leu Arg Pro Gly Thr His His Leu Lys Phe Ile Val Asp Gly Glu Met																			
	20						25						30						
Arg Ala Ser Asp Asn Leu Pro Thr Ala Val Asp Phe Thr Asn His Leu																			
	35						40						45						
Val Asn Tyr Ile Glu Val Ser Ala Asp Asp Val Asn Gln Ser Arg Arg																			
	50						55						60						
Gly Ser Asp Arg Thr Asn Lys Ser Ala Val Pro Ser Gly Val His Pro																			
	65						70						75						80
Pro Gln Val Ile Pro Asn Leu Ile Gly Asp Asp Arg Asn Gly Val Glu																			
		85								90								95	
Asn Gln Ser Asp Lys Glu Glu Pro Glu Glu Ile Pro Leu Gly Asp Phe																			
	100						105											110	
Gln Thr Ile Ile Pro Gln Phe Leu Val Asp Leu Asp Lys Asp Glu Asp																			
	115						120											125	
Ser Pro Glu Tyr Gln Gln Ala Ala Asn Val Ile Gly Asp Thr Pro Thr																			
	130						135											140	
Pro Pro Ser Leu Pro Leu Phe Leu Gly Lys Ser Ile Leu Asn Gly Thr																			
	145						150											155	
Thr Pro Met Lys Asp Asp Ser Ser Val Leu Asn Tyr Pro Asn His Thr																			
		165																170	
Val Leu Asn His Leu Ala Thr Ser Ser Ile Lys Asn Gly Val Leu Ala																			
	180																	185	
Thr Ser Val Thr Thr Arg Tyr Lys Arg Lys Val Arg Ser Pro Pro Asn																			
	195						200											205	
Ser Thr Thr Phe Val Arg Xaa Ser Pro Pro Gly Leu Glu Ile Pro Arg																			
	210						215											220	

<210> 32441

<211> 617

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (433)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32441

Tyr	Glu	Ile	Tyr	His	Leu	Gln	Leu	Pro	Gln	Val	Arg	Ala	Leu	Lys	Phe
1				5					10					15	
Asp	Ile	His	Tyr	Gln	Asp	Arg	Asp	Arg	Val	Ser	Pro	Gly	Tyr	Trp	Phe
			20					25					30		
Val	Ala	Pro	Tyr	Gly	Gln	Ile	Glu	Pro	Glu	Ala	Pro	Thr	His	Arg	Phe
		35					40					45			
Glu	Gln	Tyr	Gln	Ile	Gly	Pro	Tyr	Ile	Tyr	Asp	Gly	Asp	Gly	Thr	Leu
	50					55				60					
Val	Trp	Ala	Gly	Ser	Pro	Met	Phe	Asp	Asn	Arg	Asn	Val	Phe	Asp	Phe
65					70				75					80	
Lys	Ala	Val	His	Ser	Ile	Gly	Asp	Glu	Pro	His	Leu	Ser	Leu	Val	Trp
			85						90					95	
Gln	His	Ser	Trp	Asp	Asn	Glu	Asp	Gln	Gly	His	Gly	Val	Ile	Leu	Lys
			100					105					110		
Asn	Asn	Tyr	Glu	Ile	Gln	Lys	Lys	Leu	Pro	Phe	Arg	Glu	Asp	Leu	Gly
			115				120						125		
Ala	Phe	Asp	Ile	His	Glu	Phe	Asn	Ile	Leu	Asp	Asp	Gly	Lys	Thr	Gly
	130					135						140			
Leu	Ala	Met	Thr	Tyr	Arg	Glu	Gln	Glu	Ile	Ser	Leu	Glu	Asp	Phe	Gly
145					150					155				160	
Arg	Pro	Glu	Glu	Arg	Thr	Ala	Ile	Leu	Ser	Gly	Gly	Phe	Val	Arg	Leu
				165				170						175	
Asp	Leu	Asn	Thr	Ala	Asp	Ile	Leu	Phe	Glu	Trp	Asp	Ser	Leu	Asn	Gln
			180					185					190		
Val	Pro	Leu	His	Glu	Ser	Val	His	Tyr	Gly	Pro	Asp	Ser	Pro	Pro	Glu
		195				200						205			
Gly	Arg	Pro	Gly	Trp	Asp	Tyr	Val	His	Ala	Asn	Ser	Val	Asp	Met	Asn
	210					215					220				
Ala	Ala	Gly	Asp	Tyr	Ile	Val	Ser	Phe	Arg	Phe	Thr	Asn	Thr	Ile	Tyr
225				230						235				240	
Leu	Ile	Ser	Gly	Ala	Asp	Gly	Arg	Ile	Leu	Trp	Arg	Leu	Gly	Gly	Gln
			245						250					255	
Gly	His	His	Ser	Asp	Phe	Val	Gln	Asp	Phe	Thr	Phe	Ser	Lys	Gln	His
			260					265					270		
Asp	Ile	Lys	Phe	Val	Glu	Ser	Asn	Gly	Thr	His	His	Ile	Ile	Ser	Phe
	275						280					285			
Leu	Asn	Asn	Ala	Ser	Asp	Glu	Asp	Thr	Asn	Asp	Glu	Pro	Val	Ser	Ser
	290					295					300				
Ala	Leu	Ile	Val	Glu	Leu	Asp	Thr	Gly	Ala	Gln	Pro	Met	Thr	Ala	Asn
305					310					315				320	
Ala	Ile	Arg	Arg	Tyr	Asn	Arg	Pro	Asp	Gly	Gly	Leu	Thr	Arg	Leu	Arg
			325						330					335	
Gly	Asn	Pro	Gln	Leu	Leu	Pro	Asn	Asn	Leu	Phe	Val	Gly	Trp	Ser	
		340					345					350			
Glu	Arg	Gly	Tyr	Ile	Thr	Glu	Phe	Ala	Pro	Glu	Ser	Glu	Val	Leu	Leu
	355					360						365			
Ser	Ala	Met	Phe	Asn	Ser	Thr	Arg	Phe	Ser	Thr	Tyr	Arg	Ala	Tyr	Lys
	370					375					380				
Phe	Cys	Val	Pro	Arg	Arg	Ala	Pro	Thr	Arg	Arg	Pro	Thr	Cys	Ser	Pro
385				390						395				400	
Pro	Val	Pro	Gly	Thr	Asp	Ala	Ser	Asp	Phe	Val	Thr	Thr	Ile	Tyr	Val
			405						410				415		
Ser	Trp	Asn	Gly	Ala	Thr	Asp	Val	Ala	Arg	Trp	Asn	Phe	Tyr	Ala	Arg

12740

145 150 155 160
 Glu Ile Leu Ala Asp Gly Thr Gln Thr Val Lys Val Phe Thr Thr Gly
 165 170 175
 Xaa Glu Gly Ser Thr Glu Xaa Gln
 180

<210> 32443

<211> 359

<212> PRT

<213> A.fumigatus

<400> 32443

Thr Asn Lys Val Ala Leu Ser Leu Ile Leu Val Gly Val Val Glu Ala
 1 5 10 15
 Gly Leu Phe Pro Gly Leu Ile Thr Tyr Leu Thr Leu Phe Tyr Ser Ser
 20 25 30
 His Gln Ile Ala Leu Arg Thr Gly Tyr Leu Phe Ser Ser Ala Ala Ile
 35 40 45
 Ala Gly Ala Phe Asp Gly Ile Leu Ala Tyr Gly Ile Gly Tyr Met Asp
 50 55 60
 Gly Ile Ser Gly Leu Arg Gly Trp Arg Trp Ile Met Ile Leu Glu Gly
 65 70 75 80
 Ile Pro Thr Val Ile Leu Gly Ile Ile Thr Trp Phe Val Leu Ala Asp
 85 90 95
 Glu Pro Asp Thr Ala Tyr Tyr Leu Asn Glu Glu Glu Arg Ala Leu Ile
 100 105 110
 Val Arg Cys Arg Asn Arg Tyr Val Gly Gln Thr Val Ser Ala Gln Lys
 115 120 125
 Phe His Trp Ala Asp Val Lys Glu Gly Phe Leu Asp Trp Lys Ile Tyr
 130 135 140
 Ala Phe Ser Ile Gly Gln Phe Gly Val Asp Thr Met Leu Tyr Gly Tyr
 145 150 155 160
 Ser Thr Phe Leu Pro Thr Ile Ile Lys Gly Met Gly Ser Trp Ser Thr
 165 170 175
 Pro Glu Val Gln Ala Leu Thr Ile Pro Cys Tyr Ala Leu Gly Ala Leu
 180 185 190
 Ala Tyr Leu Ala Ile Ala Trp Leu Ser Asp Arg Leu Gln Arg Arg Ala
 195 200 205
 Leu Phe Ile Cys Ile Phe Ser Val Ile Ser Met Val Gly Tyr Gly Ile
 210 215 220
 Leu Ile Ser Asp Val Ser Ser Gly Ala His Tyr Phe Gly Ala Leu Leu
 225 230 235 240
 Ile Ala Leu Gly Leu Tyr Val Thr Val Gly Leu Pro Leu Ala Trp Leu
 245 250 255
 Pro Thr Thr Leu Pro Arg Tyr Gly Lys Arg Thr Leu Ala Thr Gly Met
 260 265 270
 Gln Leu Thr Phe Gly Asn Val Ser Gly Val Met Ser Pro Phe Leu Tyr
 275 280 285
 Lys Thr Thr Glu Ala Pro Arg Tyr Val Arg Gly Asn Ala Val Thr Leu
 290 295 300
 Ser Leu Ile Gly Phe Ala Gly Met Met Trp Val Met Met Trp Leu Tyr
 305 310 315 320
 Tyr His His Glu Asn Ser Arg Arg Ala Asn Gly Leu Glu Asp Glu Lys
 325 330 335
 Ile Ala Gly Met Thr Glu Glu Glu Ile Gln Glu Leu Gly Asp Asn Ser
 340 345 350

Pro Arg Phe Arg Tyr Thr Thr
355

<210> 32444

<211> 214

<212> PRT

<213> A.fumigatus

<400> 32444

Ser	Leu	Lys	His	Leu	Ile	Ile	Ser	Ile	Ser	Ala	Ser	Thr	Pro	His	Lys
1				5				10						15	
Asn	Thr	Ala	Ser	Ala	Ala	Ile	Ser	Cys	Gln	Cys	His	Gly	Val	Thr	Met
			20					25					30		
Ala	Ala	Gln	Ser	Lys	Leu	Leu	Pro	Glu	Arg	Ser	Ile	Arg	Gln	Ile	
		35					40				45				
Leu	Ser	Ser	Leu	Ser	Ser	Leu	Tyr	Leu	Arg	His	Arg	Lys	Gln	Ile	Ser
	50					55					60				
Arg	Thr	Val	Tyr	Leu	Ala	Leu	Phe	Val	Ala	Leu	Val	Lys	Arg	Val	His
65				70				75						80	
Asn	Ala	Ile	Ser	Glu	Gln	Lys	Ala	Ala	Ser	Arg	Ser	Gln	Val	Asp	Leu
				85				90						95	
Arg	Lys	Arg	Pro	Gly	Thr	Ser	Ser	Leu	Gly	Asp	Gly	Asp	Glu	Pro	Pro
			100					105					110		
Arg	Lys	Arg	Val	Glu	Val	Asn	Arg	Glu	Phe	Phe	Arg	Asn	Leu	Leu	Arg
			115				120					125			
Leu	Leu	Lys	Ile	Val	Ile	Pro	Gly	Trp	Lys	Ser	Lys	Glu	Phe	Arg	Leu
	130					135					140				
Leu	Ile	Gly	His	Ser	Val	Phe	Leu	Val	Leu	Arg	Thr	Met	Leu	Ser	Leu
145					150					155				160	
Tyr	Val	Ala	Glu	Leu	Asp	Gly	Arg	Leu	Val	Ser	Ser	Leu	Val	Arg	Gly
			165					170						175	
Lys	Gly	Lys	Asp	Phe	Leu	Leu	Gly	Leu	Thr	Trp	Trp	Met	Ile	Val	Ala
			180				185						190		
Val	Pro	Ala	Thr	Phe	Thr	Asn	Ser	Met	Val	Ser	Cys	Cys	Trp	Ser	Cys
		195					200					205			
Arg	Ile	Ala	Ile	Gly	Phe										
															210

<210> 32445

<211> 215

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (120)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32445

Leu	Ser	Tyr	His	Gln	Cys	Lys	Leu	Ala	Leu	Ser	Tyr	Arg	Lys	Arg	Leu
1				5				10					15		
Thr	Asp	Tyr	Ile	His	Asp	Lys	Tyr	Leu	Ser	Asn	Met	Thr	Phe	Tyr	Ala
			20					25					30		
Ile	Ser	Ala	Leu	Asp	Asp	Arg	Val	Lys	Asn	Pro	Asp	Gln	Leu	Ile	Thr
		35					40					45			
Val	Asp	Val	Ser	Arg	Phe	Ser	Asp	Ser	Leu	Ala	Glu	Leu	Tyr	Ser	Asn

50		55		60
Leu Ala Lys Pro Ile	Leu Asp Met Val	Ile Tyr Asn Tyr	Ser Leu Ser	
65	70	75	80	
Lys Ser Val Gly Gly	Glu Gly Leu Phe	Ile Met Ser Leu	Leu Val Gln	
	85	90	95	
Leu Ser Ala Asn Ile	Met Arg Ala Leu	Thr Pro Pro Phe	Gly Lys Tyr	
	100	105	110	
Val Ala Asp Asp Ala	Arg Leu Xaa Gly	Gln Phe Arg Phe	Leu His Ser	
	115	120	125	
Arg Leu Ile Asp Tyr	Arg Glu Asp Val	Ala Leu Tyr His	Arg Gln Asp	
	130	135	140	
Ala Asp Lys Asp Ser	Trp Thr Gln Gly	Thr Ser Pro Ser	Leu Thr Pro	
145	150	155	160	
Ser Thr Gly Phe Tyr	Gln Asp Gln Tyr	Phe Pro Asp Ser	Cys Glu Asp	
	165	170	175	
Leu Val Leu Lys Tyr	Phe Arg Gly Ser	Lys Leu Asp Leu	Val Leu	
	180	185	190	
Pro Ala Pro Phe Ser	Ser Arg Leu Pro	Arg Pro Asn Pro	Pro Gln Leu	
	195	200	205	
Trp Arg Asn Ala Pro	Lys Leu			
210	215			

<210> 32446

<211> 226

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (7)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32446

Gly Gly Gly Gly Ser	Phe Xaa Pro Ser	Thr Ile Val Tyr	Lys Thr Leu
1	5	10	15
His Gly Pro Ile Gln	Arg Phe Glu Asp	Glu Tyr Pro Glu	Thr Arg Val
	20	25	30
Lys Pro Ala Ser Val	Val Ser Ala Leu	Gln Glu Thr Ser	Ser Gln Ile
	35	40	45
Ser Gly Asp Asp Ala	Ala Ala Ala Pro	Ala Gly Ser Gly	Gln Leu Phe
	50	55	60
Gly Met Thr Ile Asp	Glu Asn Ala Val	Asp Asp Asp Asp	Thr Asp Gln
65	70	75	80
Tyr Ala Ile Arg Leu	Ser Arg Thr Ser	Ser Ile Thr Ser	Leu His Ala
	85	90	95
Arg Ala Met Thr Ser	Glu Glu Gly His	Val His Arg Leu	Gly Gln Asn
	100	105	110
Leu Arg Arg Asp Phe	Leu Ser Pro Ser	Leu Asn Gln Gly	Asp Gly His
	115	120	125
Pro Ser Ser Thr Ser	Leu Asp Glu Ser	His Leu Glu Ala	Leu Arg Asn
	130	135	140
Lys Leu Glu Arg Leu	His Glu Glu Gln	Thr Arg Ser His	Phe Glu Gly
145	150	155	160
Ala Asn Ala Asp Lys	Ala Phe Glu Glu	Met Gly Ser Val	Val Glu Glu
	165	170	175
Leu Trp Ala Met Glu	Lys Gln Asp Thr	Ala Ala Phe Glu	Gln Trp Arg

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<210> 32447
<211> 234
<212> PRT
<213> A.fumigatus
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<210> 32448
<211> 118
<212> PRT
<213> A.fumigatus
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<400> 32448
Trp Ala Gln Gly Asp Val Tyr Val Leu Pro Tyr Tyr Ala Pro Leu Ala
1 5 10 15
Gly Ser Val Arg Leu Thr Lys Leu Val Ala Lys Pro Cys Gly His Val
20 25 30
Ile Cys Gln Pro Cys Val Thr Lys Phe Met Thr Pro His Asp Val Pro

35 40 45
 Asp Pro His Ala Ser Lys Glu Glu Gln Glu Arg Thr Ala Lys Leu His
 50 55 60
 Gly Leu Ile Leu Cys Tyr Val Cys Glu Ala Asp Ile Thr Pro Arg Asp
 65 70 75 80
 Pro Lys Ala Glu Ala Asp Glu His Gly Thr Glu Lys Gly Asn Gly Lys
 85 90 95
 Lys Ser Lys Lys Lys Asp Lys Glu Gln Gly Ile Pro Ser Ser Pro Arg
 100 105 110
 Thr Gly Arg Ser Ala Ser
 115

<210> 32449

<211> 123

<212> PRT

<213> A.fumigatus

<400> 32449

Ser Gly Arg Arg Tyr Leu Gly Cys Ser Cys Arg Gly Phe Gly Val His
 1 5 10 15
 Leu Ala Asn Trp Val Gln Ser Glu Ser Ser Lys Ser Ala Leu Pro Ser
 20 25 30
 Leu Trp Val Pro Ser Leu Thr Pro Ser Thr Asp Pro Asn Glu Ile Ala
 35 40 45
 Ala Asn Lys Ala Val Lys Met Thr Pro Ile Cys Pro Gly Ser Thr Asp
 50 55 60
 Glu Asn Arg His Ala Tyr Ser Leu Lys Ser Leu Val Asp Val His Phe
 65 70 75 80
 Thr Glu Glu Lys Ala Ala Asp Gly Thr Val Ser Arg Ile Cys Pro Ser
 85 90 95
 Cys Asn Lys Asn Leu Ser Asn Gly Leu Lys Ala Met Cys Met Tyr Cys
 100 105 110
 Pro Thr Thr Arg His Ser Arg Ala Gln Phe Gly
 115 120

<210> 32450

<211> 538

<212> PRT

<213> A.fumigatus

<400> 32450

Arg Tyr Lys Ser Pro Leu Ala Leu Arg Ala Ser Gly Gly Ser Glu Arg
 1 5 10 15
 Gly Arg Lys Pro Arg Pro Pro Glu Asn Leu Arg Arg Met Arg Gly Ser
 20 25 30
 Ala Ala Lys Gly Gly Gly Val Pro Pro Gly Phe Phe Lys Val Cys Arg
 35 40 45
 Ile Pro Pro Ala Pro Arg Val Arg Gln Gly Gly Ala Ala Asn Ala Gln
 50 55 60
 Ile Trp Lys Arg Tyr His Met Ile Ala Leu Gln Pro Glu Asn Ala Lys
 65 70 75 80
 Val Leu Val Leu Gly Leu Asn Leu Ala Phe Val Asn His Ala Cys Ile
 85 90 95
 Ala Asn Ala Ser Leu Tyr Tyr Thr Leu Arg Tyr Pro Arg Asp Glu Asn
 100 105 110
 Gly Glu Glu Asp Lys Ser Leu Pro Pro Lys Ile Gly Arg Ala Val Val

115	120	125
Arg Ala Ser Arg Asp Ile Arg Pro Gly Glu Glu Ile Thr Val Ala Tyr		
130	135	140
Phe Tyr Ala Lys Gly Glu Cys Gly Val Arg Gln Leu Met Ser Ser Met		
145	150	155
Tyr Cys Lys Phe Trp Cys Val Cys Arg Phe Cys Arg Asp Pro Val Arg		
165	170	175
Glu Thr Glu Asn Ala Leu Glu Lys Leu Tyr Thr Leu Glu Thr Ile Phe		
180	185	190
Glu Asp Ala Asp Thr Leu Tyr Lys Arg Pro Ala Val Val Phe Lys Asn		
195	200	205
Ala Tyr Glu Leu Ile Lys Leu Tyr Glu Arg Leu Lys Ile Ser Asp Thr		
210	215	220
Arg Gln Val Gln Val Trp Leu Tyr Cys Ala Val Ile Ala Gly Tyr Asn		
225	230	235
Cys Asp Leu Gly Arg Ala Met Leu Phe Leu Ile Lys Ala Arg Gly Leu		
245	250	255
Val Leu Ile Leu His Gly Pro Asn Gly His Leu Tyr Asp Arg Ile Arg		
260	265	270
Val Tyr Cys Gln Met Pro Pro Leu Met Pro Gly Phe Gly Thr Thr Thr		
275	280	285
Arg Gly Arg Ser Ala Val Lys Gln Cys Tyr Phe Met Phe Ala Asp Gln		
290	295	300
Lys His Ser Ala Asp Val Leu Phe Met Leu Thr Ala Lys Pro Asp Glu		
305	310	315
Tyr Ile Arg Leu His Arg Tyr Arg Arg Ile Pro Asp Arg Leu Ala Lys		
325	330	335
Pro Gly Glu Ser Arg Tyr Leu Ile Arg Tyr Asp Ala Gln Asp Ala Arg		
340	345	350
Arg Lys Lys Phe Glu Asp Glu Glu Pro Asp Pro Val Glu Phe Ile Pro		
355	360	365
Trp Trp Tyr Asp Ala Glu Val Arg Lys Gln Ile Ile Glu Glu Lys Thr		
370	375	380
Ala Lys Glu Ala Glu Arg Lys Glu Glu Arg Lys Lys Thr Ala Arg Lys		
385	390	395
Lys Lys Arg Glu Glu Gln Lys Arg Lys Glu Thr Thr Ile Thr Asn Pro		
405	410	415
Asp Cys Ile Glu Pro Glu Lys Asp Phe Leu Asp Val Cys Arg Glu Leu		
420	425	430
Val Ala Glu Phe Glu Ala His Asp Lys Gln Lys Pro Glu Pro Gln Gln		
435	440	445
Arg Glu Leu Arg Glu Arg Asn Arg Asp Ala Leu Gln His Leu Leu Gly		
450	455	460
Ala Arg Asn Glu Pro Lys Lys Arg Ala Asp Glu Glu Asp Lys Gly Glu		
465	470	475
Ser Lys Gln Glu His Glu Thr Leu Gly Gly Pro Trp Thr Gln Val Ser		
485	490	495
Pro His Glu His Glu Pro Val Pro Ser Gln Pro Ala Val His Gln Val		
500	505	510
Ala Ala Arg Lys Arg Val Val Leu Glu Thr Pro Pro Val Arg Pro Glu		
515	520	525
Thr Glu Lys Tyr Ala Pro Val Glu Leu Cys		
530	535	

<210> 32451

<211> 116

<212> PRT

<213> A.fumigatus

<400> 32451

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Asp Thr Lys Met Ala His Ser Asn Asp Leu Gln Val Leu Pro Pro Ser
1          5          10          15
Ala Gly Tyr Gly Ile Val Ile Gly Ile Gly Gly Ile Phe Ala Leu Phe
          20          25          30
Met Leu Gly Leu Thr Trp Leu Gln Asn Arg Tyr Thr Thr Phe Ser Thr
          35          40          45
His Gln Ala Glu Glu Phe Asn Thr Ala Ser Arg Ser Val Lys Pro Gly
          50          55          60
Leu Ile Ser Ala Gly Ile Val Ser Ser Trp Thr Trp Ser Ala Thr Leu
65          70          75          80
Leu Thr Ser Ser Thr Phe Ala Tyr Ser Tyr Gly Val Cys Gly Pro Met
          85          90          95
Trp Tyr Ala Ala Met Gly Thr Leu Gln Ile Leu Leu Phe Ala Leu Ile
          100          105          110
Ala Ile Lys Ile
          115

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<210> 32452

<211> 105

<212> PRT

<213> A.fumigatus

<400> 32452

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Ile Pro Ala Phe Pro Ser Pro Glu Ser Ile Gln Ile Ile Arg Ser Asn
1          5          10          15
His Gln Asn Asn Gln His Thr Ser Ile Ser Tyr Phe Asn Gln Leu Lys
          20          25          30
Met Pro Ala Asn Gln Asn Pro Gly Asn Phe Ala Asn Arg Pro Gln Glu
          35          40          45
Glu Val Glu Ser Ile Ala Arg Lys Gly Gly Gln Ser Ser His Gln Gly
          50          55          60
Gly Phe Ala Ser Met Asp Pro Arg Lys Gln Val Arg Leu His Asn Gly
65          70          75          80
Leu Cys Thr Leu Thr Ser Pro Thr Asp Val Phe Thr Glu Arg His Arg
          85          90          95
Phe Gln Gly Trp Pro Arg Leu Gln Arg
          100          105

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<210> 32453

<211> 67

<212> PRT

<213> A.fumigatus

<400> 32453

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Leu Val Leu Ser Asn Asp Gln Leu Phe Asn Ile Lys Leu Ser Ser Val
1          5          10          15
Pro Gly Phe Trp Asn Leu Glu Phe Tyr Trp Trp Tyr Gly Leu Leu Leu
          20          25          30
Pro Ser Asn Ser Asp Gln His Ser Ala Leu Ala Phe Ala Gly Arg Thr
          35          40          45
Leu Ser Ile Ser Thr Pro Gln Tyr Glu Arg Leu Ser Gly Arg Ala Val
          50          55          60

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Ala Val Gln
65

<210> 32454
<211> 60
<212> PRT
<213> A.fumigatus

<400> 32454
Ala Phe Ile Ser Phe Gly Asn Phe Tyr Arg Arg Phe Ile Lys Asp Phe
1 5 10 15
Leu Arg Ile Ile Ala Pro Leu Val Asn Leu Thr Arg Lys Asp Val Pro
20 25 30
Phe Ile Trp Thr Thr Ala Cys Lys Leu Ser Phe Lys Ala Leu Lys Lys
35 40 45
Ala Phe Ile Asn Thr Pro Ile Leu Lys Leu Phe Asn
50 55 60

<210> 32455
<211> 76
<212> PRT
<213> A.fumigatus

<400> 32455
Tyr Asn Asn Lys Gly Val Leu His Pro Ile Ala Phe Phe Ser Lys Lys
1 5 10 15
Leu Ser Val Thr Glu Cys Asn Tyr Glu Ile Tyr Asp Lys Glu Leu Leu
20 25 30
Thr Ile Ile Arg Cys Phe Lys Glu Trp Arg Pro Glu Leu Glu Gly Thr
35 40 45
Pro Ser Leu Ile Lys Val Ile Thr Asn His Cys Asn Leu Glu Tyr Phe
50 55 60
Met Ser Thr Lys Leu Leu Asn Arg Gln Gln Ala Tyr
65 70 75

<210> 32456
<211> 69
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (34)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32456
Ser Glu Phe Leu Ser Arg Phe Asn Phe Lys Ile Ile Tyr Gln Pro Gly
1 5 10 15
Lys Gln Gly Val Lys Pro Asp Ala Leu Thr Arg Arg Ser Glu Asp Leu
20 25 30
Pro Xaa Glu Glu Asp Lys Arg Leu Gln His Gln Ser Gln Thr Ile Leu
35 40 45
Lys Lys Glu Asn Leu Asp Pro Glu Ile Gln Asn Ser Val Lys Leu Gly
50 55 60
Ala Ile Thr Asn Ser
65

<210> 32457
 <211> 61
 <212> PRT
 <213> A.fumigatus

<400> 32457
 Trp Asn Leu Ala Val Ile Leu Pro Gln Ser Gln Arg Lys Met Cys Val
 1 5 10 15
 Ser Ala Ile Leu Gly Lys Pro Arg Met Tyr Trp Thr Phe Val Ala Phe
 20 25 30
 Leu Ile Phe Ser Asp Thr Asn Gly Asp Ser Asn Asn Asn Arg Asp Ile
 35 40 45
 Glu Glu His Asp Arg Leu Ala Met Asp Thr Pro Leu Leu
 50 55 60

<210> 32458
 <211> 84
 <212> PRT
 <213> A.fumigatus

<400> 32458
 Asp Tyr Pro Ser Cys Thr Ser Leu Cys Val Ala Pro Leu Ala Val Tyr
 1 5 10 15
 Ser Cys Pro Ser Cys Pro Leu Thr Leu Ala Arg Phe Ala His Gln Leu
 20 25 30
 Pro Phe Tyr Gly Leu Ile Cys Phe Ala Cys Tyr Leu Gly Gly Arg Leu
 35 40 45
 Gly Leu Ala Ile Leu Thr Phe Asn Asp Cys Pro Glu Ala His Lys Glu
 50 55 60
 Leu Gln Lys Glu Ile Glu Gln Ala Lys Ala Asp Leu Arg Ser Lys Asn
 65 70 75 80
 Val Asp Val Asp

<210> 32459
 <211> 208
 <212> PRT
 <213> A.fumigatus

<400> 32459
 Phe Ser Gly Asp Val Thr Ala Ser Val Ala Ser Asn Cys Leu Val Ile
 1 5 10 15
 Asp Phe Ser Arg Phe Thr Gly Cys Asp Gly Ser Asn Gly Thr Lys Ala
 20 25 30
 Ala Pro Ser Leu Leu Ile Ala Ser Met Ala Thr Ile Ala His Glu Asp
 35 40 45
 Leu Gln Lys His Thr Gly Ile Arg Ser Pro Gly Cys Thr Pro Asp Pro
 50 55 60
 Arg Arg Arg Tyr Ala Thr Phe Lys Glu Ser Val Ser Ser Ser Leu Tyr
 65 70 75 80
 Glu Ser Ala Arg Ser Ala Ala Met Thr Ala Gly Trp Cys Arg Arg Ser
 85 90 95
 Val Ala Arg Ser Trp Thr Thr Trp Cys Ile Ala Leu Asn Leu Gly Trp
 100 105 110
 Thr Lys Ala Arg Ser Phe His Phe Pro Ile Trp Ser Asn Cys Leu Arg

115	120	125
Leu Thr Lys Gln Ile Ser	Leu Arg Gly Ile Pro	Leu Pro Ala Leu Ala
130	135	140
Ser Ser Thr Thr Ser Ser	Lys Glu Asp Phe Arg Cys	Val Ala Trp Ile
145	150	155
Ser Val Ser Thr Val Val	Leu Tyr Ala Arg Lys	His Phe Arg Gln Leu
165	170	175
Glu Ser Arg Ser Ser Ser	Arg Thr Asn Ser Thr	Leu Gln Ala Phe Ile
180	185	190
Arg Ser Gly Gln Pro Phe	Ile Arg Gly Glu Ser	Val Arg Ser His His
195	200	205

<210> 32460

<211> 730

<212> PRT

<213> A.fumigatus

<400> 32460

Pro Asp Arg Met	Lys Ala Cys Asn Val	Leu Leu Val Leu Glu Leu Asp
1	5	10 15
Leu Asp Ser Asn Trp Arg	Lys Cys Phe Leu Ala Tyr Lys Thr Thr Val	
20	25	30
Leu Thr Asp Ile Gln Ala Thr	His Leu Lys Ser Ser Phe Glu Glu Val	
35	40	45
Val Glu Leu Ala Arg Ala Gly Arg Gly	Ile Pro Leu Ser Glu Ile Cys	
50	55	60
Leu Val Ser Arg Arg Gln Leu Asp Gln	Ile Gly Lys Trp Asn Glu Arg	
65	70	75
Ala Leu Val Gln Pro Lys Phe Lys Ala	Met His Gln Val Val His Asp	
85	90	95
Arg Ala Thr Asp Arg Arg His His	Pro Ala Val Ile Ala Ala Asp Arg	
100	105	110
Ala Leu Ser Tyr Ser Glu Leu Glu Thr	Leu Ser Leu Lys Val Ala Tyr	
115	120	125
Arg Leu Arg Gly Ser Gly Val Gln Pro	Gly Asp Leu Ile Pro Val Cys	
130	135	140
Phe Cys Lys Ser Ser Trp Ala Ile Val	Ala Met Leu Ala Ile Asn Lys	
145	150	155
Leu Gly Ala Ala Phe Val Pro Leu Asp	Pro Ser Gln Pro Val Asn Arg	
165	170	175
Leu Lys Ser Ile Thr Arg Gln Leu Asp	Ala Thr Leu Ala Val Thr Ser	
180	185	190
Pro Glu Asn Gln Ser Leu Val Glu Asp	Leu Val Thr Thr Thr Val Val	
195	200	205
Val Ser Glu Thr Thr Val Ser Glu Leu	Val Asp Val His Asn Glu Ile	
210	215	220
Val Leu Pro Ala Cys Asp Pro Gly Ala	Pro Ala Tyr Cys Leu Phe Thr	
225	230	235
Ser Gly Ser Thr Gly Lys Pro Lys Gly	Cys Val Val Asp His Ala Ala	
245	250	255
Leu Ala Ser Val Ala Thr His Ser His	Ala Leu His Leu Gly Pro Thr	
260	265	270
Ser Arg Val Leu Gln Phe Ala Ser Phe	Thr Phe Gly Val Ser Leu Ile	
275	280	285
Glu Val Trp Cys Thr Leu Ala Ala Gly	Gly Thr Val Cys Leu Pro Ser	
290	295	300

12750

Asp Ser Asp Arg Val Ser Arg Leu Ala Asp Ala Ile Arg Ser Met Gly
 305 310 315 320
 Val Asp Trp Cys Ile Leu Thr Pro Thr Val Leu Ala Thr Leu Glu Pro
 325 330 335
 Glu Ala Val Pro Asn Leu Arg Thr Ile Leu Val Ala Gly Glu Pro Leu
 340 345 350
 Lys Lys Ala Gln Phe Ser Leu Trp Ala Glu Arg Ala Arg Leu Phe Gln
 355 360 365
 Ala Tyr Gly Phe Thr Glu Trp Ala Gly Ile Cys Cys Val Ser Pro Gln
 370 375 380
 Ile Arg Ser Ile Gly Asp Val Gly Ile Ile Gly Thr Pro Ala Asn Ala
 385 390 395 400
 Arg Cys Trp Leu Val Glu Pro Gly Asn Pro Asn Gln Leu Ala Pro Ile
 405 410 415
 Gly Ala Val Ala Glu Leu Ala Val Glu Gly Pro Ser Leu Ala Gln Gly
 420 425 430
 Tyr Leu His Asp Pro Glu Lys Thr Ala Ala Thr Leu Ile Pro Pro Pro
 435 440 445
 Arg Trp Arg Ala Gln Tyr Gly His Ala Asp Gly Lys Arg Ile Tyr Thr
 450 455 460
 Thr Gly Asp Leu Val Tyr Tyr Asp Ser Asn Gly Met Leu Arg Tyr Val
 465 470 475 480
 Ser Arg Lys Asp Arg Gln Val Lys Ile Arg Gly Gln Arg Ile Asp Leu
 485 490 495
 Ala Glu Pro Glu Tyr His Ile Ala Gln Ala Cys Cys Thr Ile Arg Asn
 500 505 510
 Val Val Leu Asp Ala Ile Val Pro Ala Asp Ser Asn Gly Asp Ala Ile
 515 520 525
 Leu Val Ala Phe Val Leu Pro Ser Arg Asp Glu Ser Ser Ser Asn Gly
 530 535 540
 Gly His Asp Ser Pro Leu Phe Ala Val Pro Asp Asp His Phe Thr Ser
 545 550 555 560
 Ser Val Arg Gln Leu Thr Ser Phe Leu Glu Asp Lys Leu Pro Asp Tyr
 565 570 575
 Met Val Pro Arg Leu Phe Leu Gln Leu Lys Glu Thr Pro Val Thr Ile
 580 585 590
 Thr Gly Lys Ile Ala Arg Gln Lys Leu Arg Glu Ala Ala Glu Ala Leu
 595 600 605
 Arg His Asp Glu Leu Val Ala Leu Ala Gly Leu Glu Thr Arg Val Leu
 610 615 620
 Pro Pro Asn Thr His Lys Glu Thr Leu Ile His Gln Leu Val Val Glu
 625 630 635 640
 Leu Leu His Leu Pro Pro Glu Met Val Gly Met Asn His Asn Phe Phe
 645 650 655
 Ser Leu Gly Gly Asp Ser Val Ser Val Met Lys Leu Val Ser Arg Ala
 660 665 670
 Lys Arg Val Gly Leu Ser Phe Thr Val Lys Asp Val Phe Arg Ser Pro
 675 680 685
 Gln Leu Gly Asp Leu Ala Arg Leu Thr Asp Val Val Asn Ser Gly Ala
 690 695 700
 Ala Gln His Met Pro Pro Phe Ser Leu Leu Asp Arg Gly Ala Gln Pro
 705 710 715 720
 Gly Leu Leu Ser Met Ala Ala Lys Ile Cys
 725 730

<210> 32461

12751

<211> 64
<212> PRT
<213> A.fumigatus

<400> 32461
Gly Lys His Gly Ala Trp Ala Gly Arg Val Ser Ile Ile Ser Lys Gly
1 5 10 15
Val Tyr Ile Met Asp Arg Tyr Ala Thr Lys Gly Lys Asp Asp Tyr Ser
20 25 30
Ser Glu Thr Ser Ser Glu Gly Lys Leu Ile Val Asp Trp Phe Arg Cys
35 40 45
Phe Cys Tyr Phe Pro Thr Met Arg Ala Asp Met Cys Gly Ala Ala Gln
50 55 60

<210> 32462
<211> 489
<212> PRT
<213> A.fumigatus

<400> 32462
Trp Leu Glu Asp Glu Arg Ser Pro Val Thr Asn Leu Thr Asp Thr Asn
1 5 10 15
Thr Gln Ile Gln Ala Ile Leu Thr Arg Glu Ser Leu Glu Glu Tyr Ser
20 25 30
Arg Asp Tyr Pro Asp Gln Lys Leu Lys Lys Gly Gly Met Pro Gly Tyr
35 40 45
Thr Ile Asn Leu Leu Asp Phe Glu Leu Val Phe Glu Tyr Thr Thr Ala
50 55 60
Glu Pro Lys Ile His Leu Tyr Val Lys Arg Phe Ser Ile Ala Trp Asp
65 70 75 80
Lys Ser Arg Leu Arg Arg Pro Pro Gln Gly Lys Lys Ile Arg Asn Lys
85 90 95
Arg Glu Val Tyr Ala Leu Met Arg Ser Ala Leu Gln Met Ala Lys Ser
100 105 110
Arg Glu Thr Ala Thr Thr Asp Ser Ser Gly Asn Gly Ser His Ser Asp
115 120 125
Glu Ser Ile Lys Ser Gln Asp Gly Glu Thr Asp Glu Ile Asn Asp Ser
130 135 140
Gln Asn Gln Leu Met Ser Gln Met Pro Pro Lys Gln Pro Val Glu Leu
145 150 155 160
Phe Ala Ser Ala Phe Ala Ser Ala Lys Thr Leu Leu Gly Ser Leu Lys
165 170 175
Pro Ser Ala Arg Pro Ser Gln Asp Ser Gln Gln Lys Lys Asp Asn Asp
180 185 190
Thr Asp Ile Val Ala Ser Gly Arg Asp His His Ala Leu Asp Glu Ala
195 200 205
Thr Lys Glu Pro Asn Ile Asn Arg Cys Ala Ala His Ile Asp Glu Leu
210 215 220
Ser Ala Gly Pro Ser Val Val Gly Pro Arg Gln Asn Gly Asn Ala Thr
225 230 235 240
Val Arg Glu Ser Asp Gln Thr Asp Thr Asp Thr Ala Gly Glu Val Pro
245 250 255
Ala Lys Thr Arg Ser Gly Lys Gly Pro Ser Asp Thr Lys Thr Gln Glu
260 265 270
Arg Thr Leu Thr Asp Tyr Asn Lys Glu Pro Asp His Ala Val Asn Ile
275 280 285

12752

Gly Thr Val Ser Lys Glu Ile Val Gln Lys Asn His Leu Glu Gln Val
 290 295 300
 Asp Pro Ala Val Glu Thr Ile Leu Thr Glu Val Asp Asn Ser Asn Ala
 305 310 315 320
 Asp Pro Trp Asp Gly Met Thr Glu Ile Arg Thr Glu Asp Ile Ala Ile
 325 330 335
 Pro Lys Asp Gln Ala Asn Leu Leu Asp Glu Gln Ala Lys Leu Cys Trp
 340 345 350
 Leu Pro Pro Ala Pro Gly Gln Gly Tyr Pro Gln Pro Asn Val Pro Pro
 355 360 365
 Leu Leu Leu Gln Gln Trp Asn Glu Ile Ala Leu Gln Arg Ser Ile Arg
 370 375 380
 Ala Glu Glu Arg Lys Ile Lys Glu Leu Glu Thr Leu Glu Leu Gln Gly
 385 390 395 400
 Ser Arg Pro Ser Ser Asp Ala Ser Ser Thr Asp Ser Ala Tyr
 405 410 415
 Glu Thr Pro Ser Gly Asp Arg Ile Glu Trp Ser Gln Ser Pro Pro Arg
 420 425 430
 Gly Arg Asp Leu Pro Val Asp Ser Ser Pro Pro Glu Ala Arg Pro Val
 435 440 445
 Glu Arg Pro Ile Val Tyr Lys Gly Asn Gly Gly Asn Gly Pro Ser Asn
 450 455 460
 Gln Pro Phe Arg Asp Ala Glu Glu Glu Gln Arg Ala Ser Val His His
 465 470 475 480
 Glu Ile Ser His Glu Gln Glu Glu Leu
 485

<210> 32463
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 32463
 Trp His Arg Asn Gly Leu Ala Ile Val Phe Trp Ser Gln Ser Thr Ile
 1 5 10 15
 Ile Asp Ser Gly Gln Tyr Pro Ser Tyr Leu Ser Met Ile Pro Phe Met
 20 25 30
 Leu Asp Ala Val Pro Arg Val Gly Pro Pro Thr Phe Ser Gly Asn Leu
 35 40 45
 Asn Arg His Lys Val Pro Gln Pro His Pro Arg His Trp Ala Ala Pro
 50 55 60
 His Met Ser Ala Arg Ile Val Gly Lys
 65 70

<210> 32464
 <211> 416
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (416)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32464
 Met Ala Tyr Gln Gln Ser Gln Gly Thr Ser Ser Pro Ser Ala Ser Ser

12753

1		5		10		15
Ile	Phe	Leu	Pro	Leu	Gly	Arg
		20		25		30
Gln	Ala	Glu	Arg	Glu	Ser	Leu
	35			40		45
Ala	Ala	Tyr	Gln	Ser	Asp	Ser
	50			55		60
Pro	Pro	Val	Pro	Ala	Ser	Ala
65				70		75
Leu	Gln	Gly	Gly	Leu	Ser	Gly
		85				90
Gly	Gly	Met	Arg	Asp	Ile	Val
		100				105
Ser	Ala	Pro	Asp	Gly	Pro	Ala
	115					120
Val	Ser	Lys	Phe	Ala	Ala	Asp
	130					135
Gln	Ser	Asn	Pro	Ser	Ser	Gln
145						150
Pro	Gly	Ser	Ser	Gln	Asn	Thr
				165		170
Lys	Leu	Ser	Ser	Lys	Ala	Ala
		180				185
Pro	Ser	Pro	Thr	Leu	Lys	Ser
		195				200
Ser	Asn	Ala	Ala	Thr	Val	Asp
	210					215
Ala	Val	Lys	Glu	Pro	Thr	His
225						230
Ser	Ser	Ser	Ser	Leu	Gln	Thr
				245		250
Glu	Asn	His	Tyr	Val	Pro	Ser
		260				265
Leu	Thr	His	Ser	Pro	Ala	Leu
		275				280
Glu	Gly	His	Ala	Ala	Leu	Asp
	290					295
Gln	Pro	Ser	Asp	Ser	Thr	Lys
305						310
Leu	Glu	Pro	Ser	Leu	Thr	Ala
				325		330
Gln	Gly	Glu	Ser	Glu	Gly	Thr
		340				345
Asn	Ser	Ala	Thr	Ser	Phe	Gly
	355					360
Ser	Gly	Ala	Thr	Ser	Val	Ser
	370					375
Leu	His	Asp	Ser	Gln	Gly	Pro
385						390
Met	Asp	Gly	Asn	Pro	Lys	Leu
				405		410

<210> 32465

<211> 148

<212> PRT

<213> A.fumigatus

<400> 32465

Leu Arg Gly Arg Met Tyr Met Leu Ala Ile His Ser Asp Leu Cys Leu
 1 5 10 15
 Gln Thr Leu Ile Ala Trp Ser Gln Thr Tyr Lys Ala Met Glu Lys Leu
 20 25 30
 Leu Ser Thr Gly Lys Thr Lys Ala Ile Gly Val Ser Asn Phe Ser Lys
 35 40 45
 Ala Glu Met Glu Arg Leu Val Gln Asn Thr Ser Val Val Pro Ala Val
 50 55 60
 His Gln Leu Glu Gly His Pro Trp Leu Gln Gln Arg Ser Phe Val Asp
 65 70 75 80
 Leu His Lys Ser Lys Gly Ile His Val Thr His Tyr Ser Pro Phe Gly
 85 90 95
 Asn Gln Asn Glu Ile Tyr Ser Ser Lys Val Gln Ile Gly Lys Leu Ile
 100 105 110
 Asp Glu Pro Val Leu Ala Glu Ile Gly Lys Lys Tyr Asn Lys Ser Ser
 115 120 125
 Ala Gln Val Ala Leu Gly Lys Phe Ser Cys Arg Pro Ile Gln Ala Gly
 130 135 140
 Asn Asn Val Tyr
 145

<210> 32466

<211> 187

<212> PRT

<213> A.fumigatus

<400> 32466

Tyr Ile Tyr Ser Ile Leu Ala Val Ile Gly Phe Gly Phe His Lys Val
 1 5 10 15
 Gln Pro Asn His Arg Pro Phe Ser Leu Thr Asp Pro Ser Ile Ser Phe
 20 25 30
 Pro Tyr Thr Glu His Glu Thr Val Ser Thr Ala Val Leu Met Val Val
 35 40 45
 Ala Leu Ile Ala Pro Ala Val Ile Ile Val Ile Thr Ala Leu Leu Ile
 50 55 60
 Pro Met Ser Thr Lys Asp Gln Asn Val Pro Arg Ser Ser Leu Trp Arg
 65 70 75 80
 Tyr Lys Leu Trp Glu Trp Asn Ala Gly Trp Met Gly Leu Ala Val Ala
 85 90 95
 Cys Ala Trp Ala Trp Met Ala Thr Glu Gly Leu Lys Asp Leu Tyr Gly
 100 105 110
 Arg Pro Arg Pro Asp Met Leu Ala Arg Cys Asn Pro Asp Leu Ser Asn
 115 120 125
 Ile Ala Thr Tyr Ala Val Gly Gly Leu Gly Glu Asn Leu Ala Gly Ala
 130 135 140
 Pro Thr Met Val Thr Trp Lys Ile Cys Gln Asn Lys Ser Lys Val Leu
 145 150 155 160
 Ala Asn Asp Gly Phe Ala Ser Phe Pro Ser Gly His Ser Ser Cys Lys
 165 170 175
 Trp Leu Met Ser Ala Pro Glu Gly Leu Gln Tyr
 180 185

<210> 32467

<211> 162

12755

<212> PRT

<213> A.fumigatus

<400> 32467

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His Leu Ala Val Ser Phe Ala Gly Leu Thr Tyr Leu Thr Leu Trp Leu
1          5          10          15
Cys Ser Lys Leu Ser Ile Ala Phe Pro Tyr Leu Gly His Ser Leu Leu
          20          25          30
Asn Gln Asn Pro Ile Gly Pro Ile Asn Gly Ser Ile Arg Lys Arg Gly
          35          40          45
Ala Ala Pro Pro Val Tyr Met Leu Val Val Ala Phe Val Pro Ile Ala
          50          55          60
Val Ala Ser Phe Ile Gly Ala Ser Arg Trp Phe Asp Tyr Arg His His
65          70          75          80
Ala Phe Asp Ile Leu Phe Gly Ser Ile Met Gly Ala Ile Phe Ala Trp
          85          90          95
Ile Gly Phe Arg Met Tyr His Leu Pro Ile Thr Arg Gly Glu Gly Trp
          100          105          110
Ser Trp Ala Ala Arg Ser Arg Arg His Ala Phe Phe Lys Ser Pro Arg
          115          120          125
Phe Pro Ser Glu Ala Asp Glu Arg Arg Pro Ile Asp Thr His Asp Thr
          130          135          140
Gln Lys Thr Thr Arg Gln Asp Ile Asp Val Glu Arg Ala Ala Glu Asn
145          150          155          160
Leu Val

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<210> 32468

<211> 84

<212> PRT

<213> A.fumigatus

<400> 32468

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Thr Asn Ser Ser Trp Lys Gln Cys Leu Leu Thr Val Ile Ala Tyr Ser
1          5          10          15
Ala Trp Gly Val Thr Gln Gly His Ser Val Leu Pro Lys Ser Lys Thr
          20          25          30
Pro Ser Arg Ile Lys Ala Asn Leu Glu Gly Asp Phe His Leu Ser Asp
          35          40          45
Glu Asp Met Lys Lys Ile Gln Gly Ile Asp Lys Lys Leu Arg Phe Asn
          50          55          60
Asp Ser Ser Ala Asp Phe Gly Arg Asp Phe Phe Thr Asp Leu Glu Gly
65          70          75          80
Lys Gly Ser Val

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<210> 32469

<211> 390

<212> PRT

<213> A.fumigatus

<400> 32469

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Cys Thr Gly Pro Arg Arg Thr Glu Ala Thr Thr Trp Leu Asp Phe Gln
1          5          10          15
Leu Val Phe Glu Leu Arg Phe Gln Arg Val Asn Ile Ala Asn Ile Asp
          20          25          30

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Ala Asn Leu Arg Lys Ala Leu Ser Pro Leu Ala Ala Lys Ala Cys Lys
 35 40 45
 Ile Val Ser Lys Ile Arg Ala Arg Glu Leu Glu Thr Val Trp Ser Lys
 50 55 60
 Gly Ser Thr Gln Glu Gln Ala His Gly Ala Asp Glu Ile Leu Tyr Pro
 65 70 75 80
 Gly Val Met Phe His Leu Ala Arg Gly Arg Met Glu Asn Thr Asp Leu
 85 90 95
 Trp Lys Ile Val Gln Lys Met Pro Lys Gly Ser Leu Leu His Ala His
 100 105 110
 Met Asp Ala Met Phe Asp Ile Asp Phe Leu Val Asp Gln Ala Phe Ser
 115 120 125
 Thr Pro Gly Met His Ile Phe Ala Pro Gln Pro Leu Ile Thr Ala Lys
 130 135 140
 Glu Leu Glu Glu Ala Pro Phe Tyr Leu Arg Phe Ser Ser Gln Pro Leu
 145 150 155 160
 Glu Glu Ser Glu Asp Lys Pro Thr Met Trp Thr Ser Ser Tyr Glu Ser
 165 170 175
 Ser Arg Leu Val Ser Leu Gln Lys Ala Ala Ser Ser Phe Pro Lys Gly
 180 185 190
 Gly Glu Ala Gly Phe Arg Glu Trp Leu Lys Ser Arg Cys Val Leu Gly
 195 200 205
 Pro Glu His Ser Tyr Leu His His His Gly Val Asp Ala Ile Trp Asp
 210 215 220
 Ile Phe Arg Arg Thr Phe Pro Val Ile Asn Ser Ile Leu Asn Tyr Glu
 225 230 235 240
 Pro Ile Phe Arg Ala Cys Leu Arg Arg Met Phe Glu Gln Leu Ala Ser
 245 250 255
 Asp Gly Ile Arg Tyr Val Asp Phe Arg Ile Ala Phe Val Phe Glu Tyr
 260 265 270
 Arg Arg Glu Gly Arg Asp Thr Pro Glu Glu Gly Tyr Phe Glu Trp Cys
 275 280 285
 Arg Val Phe Lys Glu Glu Leu Glu Arg Phe Lys Asn Thr Glu Gln Gly
 290 295 300
 Arg Arg Phe Tyr Gly Ala Arg Ile Ile Trp Thr Thr Leu Arg Asn Phe
 305 310 315 320
 Pro Asn Lys Asp Ile Ala Ala Ser Met Lys Gln Cys Ile Glu Thr Lys
 325 330 335
 Leu Ala Phe Pro Asp Val Ile Cys Gly Phe Asp Val Val Gly Gln Glu
 340 345 350
 Asp Gln Gly Arg Pro Leu Val Asp Leu Val Pro Val Leu Phe Trp Phe
 355 360 365
 Arg Lys Arg Cys Val Glu Glu Gly Val Thr Ile Pro Phe Phe Phe His
 370 375 380
 Ala Gly Glu Cys Leu Gly
 385 390

<210> 32470

<211> 60

<212> PRT

<213> A.fumigatus

<400> 32470

Leu Gln Asn Leu Gly Trp Gln Lys Trp Asp Ser His Asp Leu Ala Gln
 1 5 10 15
 Pro Glu Ala Asn Val Leu Gly Ser Arg Tyr Ser Val Ile Glu Leu Ala

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<210> 32471
<211> 68
<212> PRT
<213> A.fumigatus
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<210> 32472
<211> 103
<212> PRT
<213> A.fumigatus
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<210> 32473
<211> 205
<212> PRT
<213> A.fumigatus
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<400> 32473
Gly Thr Met Pro Ser Arg Arg Ser His Ser Lys Ser His His Gly Cys
1          5          10          15
Thr Gln Cys Lys Gly Arg Gln Ile Lys Cys Asp Glu Val Arg Pro Ile
20          25          30          35
Tyr Gly Ser Cys Arg Arg Lys Gln Leu Pro Cys Asn Phe Gln Ser Phe
35          40          45

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Ala Pro Gln Thr Ser Pro Gln Pro Ser Ile Ala Asp Ala Ile Leu Gly
 50 55 60
 His Arg Asp Ser Phe Val Leu Pro Leu Leu Asp Leu Glu Leu Leu His
 65 70 75 80
 His Trp His Thr Val Thr Gly Asn Tyr Leu Pro Asp Ala Lys Pro Leu
 85 90 95
 Gln Asp Val Ile Arg Thr Val Met Pro Gln Glu Gly Leu Ala Asn Pro
 100 105 110
 Phe Leu Met His Ser Ile Leu Ala Val Ser Ala Leu His Arg Ala His
 115 120 125
 Ser Ala Pro Leu Ser His Arg His Met Tyr Ser Glu Ala Ala Thr Met
 130 135 140
 His His Ser Arg Ser Leu Ala Leu Cys Thr Pro Leu Phe Lys Asn Ile
 145 150 155 160
 Thr Arg Gln Asn Cys His Ala Leu Phe Ala Leu Ser Cys Leu Val Pro
 165 170 175
 Val Phe Val Phe Thr Ser Arg Asn Pro Ser Lys Asn Pro Arg Ile Gln
 180 185 190
 Ser Leu Thr Ala Val Val Gln Ala Phe Arg Leu Val Arg
 195 200 205

<210> 32474

<211> 409

<212> PRT

<213> A.fumigatus

<400> 32474

Gln Arg Gly Gln Val Ala Glu Thr Lys Met Ala Ile Leu Ser Leu Val
 1 5 10 15
 Ile Leu Gly Gly Leu Cys Leu Ser Thr Ala Ser Gly Gln Ala Pro Thr
 20 25 30
 Gln Pro Glu Pro Phe Thr Ile Val Glu Leu Pro Leu Pro Val Val
 35 40 45
 Ser Ser Asn Ala Val Gly Ala Cys Thr Thr Asp Val Asn Pro Arg Arg
 50 55 60
 Thr Gly Cys Ile Gly Gln Ile Ser Glu Glu Phe Gln Ala Gly Asp Phe
 65 70 75 80
 Thr Ser Asp Gly Lys His Val Ile Val Asn Val Glu Phe Val Gly Ala
 85 90 95
 Pro Ala Ala Pro Asp Pro Ala Ser Val Tyr Thr Gly Lys Gln Leu Ile
 100 105 110
 Leu Val Lys Ala Asp Gly Thr Asn Phe Ser Asn Gly Asp Pro Trp Lys
 115 120 125
 Cys Leu Ser Cys Gly Val Pro Ala Ala Asn Ala Arg Ser Leu Asp Ser
 130 135 140
 Gln Arg Asp Tyr Pro His Val Ala Arg Ser Gly Lys Arg Ala Leu Trp
 145 150 155 160
 Gly His Asn Ile Val Glu Cys Ser Gly Leu Leu Ala Ser Asp Gly
 165 170 175
 Cys Thr Pro Asn Arg Thr Cys Ser Tyr Pro Ile Tyr Trp Pro Val Asn
 180 185 190
 Ala Asp Gly Ser Gly Pro Gly Gly Ala Pro Arg Glu Met Arg Met His
 195 200 205
 Pro Asp Asp Glu His Met Gly Trp Ser Ser Phe Thr Ser Asn Gly Gly
 210 215 220
 Gln Phe Ala Tyr Phe Gly Arg Leu Ala Phe Asn Lys Asn Pro Ser Thr

12759

225 230 235 240
 Gly Asn Ile Arg Ala Pro Arg Tyr Asp Leu Val Asp Val Asn Leu Leu
 245 250 255
 Ile Leu Pro Asn Gly Pro Ala Pro Ile Met Ala Asn Gly Asp Glu Leu
 260 265 270
 Glu Leu His Asp Glu Ala Ile Thr Val Gly Glu Leu Arg Gly Phe Ser
 275 280 285
 Gly Ser Gly Asp Glu Ile Leu Tyr Ile Gly Ser Pro Arg Glu Ala Asn
 290 295 300
 Asn Ile Asp Val Phe Ala Val His Leu Val Thr Gly Ala Val Arg Arg
 305 310 315 320
 Leu Thr Ser His Pro Glu Tyr Thr Asp Pro Val Ala Phe Ser Arg Asp
 325 330 335
 Asp Lys Trp Phe Val Ala Met Asp Thr Arg Gly Ser Asp Arg Gln Met
 340 345 350
 Trp Met Ser Gly Met Arg Met Val Pro Pro Leu Ile Asp Leu Val Thr
 355 360 365
 Val Thr Ala Ala Ser Ser Thr Arg Asn Asn Gly Pro Arg Arg Phe Phe
 370 375 380
 Gln Pro Ile Leu Ile Asp Arg His Gly Asp Arg Gly Asp Tyr Phe Val
 385 390 395 400
 Phe Thr Thr Gly Leu Glu Glu Ser Thr
 405

<210> 32475

<211> 251

<212> PRT

<213> A.fumigatus

<400> 32475

Leu Arg Tyr Ile Ala Glu Leu Pro Pro Asp Gly Ser Thr Cys Asn Asp
 1 5 10 15
 Ile Leu Phe Ser Leu Leu Gly Leu Thr Tyr Asp Ala Val Ile Ala Ser
 20 25 30
 Lys Met Val Gly Leu Ala Val Glu His Asn Ile Gln Val Asn Asp Gly
 35 40 45
 Pro Leu Thr Ser Glu Asn Ala Ala Val Leu Arg Pro Ser Asp Pro Ser
 50 55 60
 Leu Pro Leu Asp Glu Leu Arg Ala Arg Tyr Glu Gln Asp Gly Tyr Leu
 65 70 75 80
 Phe Leu Lys His Leu Leu Pro Arg Asp Asp Val Leu Glu Ala Arg Arg
 85 90 95
 Gln Tyr Phe Ser Leu Leu Ala Pro Thr Gly Val Leu Gln Glu Gly Thr
 100 105 110
 Asp Pro Val Gln Gly Ile Phe Asn Pro Thr Lys Ser Pro Asp Gln Tyr
 115 120 125
 Pro Gly Ile Gly Ala Gly Ala Val Gly Asn Asn Gly Arg Pro Gly Gly
 130 135 140
 Asp Gln Ala Ala Glu Phe Val Asp Leu Ala Ile Glu Ala His Tyr Gln
 145 150 155 160
 Asp Trp Tyr Ala Asp Lys Phe Cys Asn His Pro Ala Leu Val Arg Phe
 165 170 175
 Val Ala Glu Phe Thr Ser Trp Gly Glu Arg Thr Leu Asn Phe Arg Arg
 180 185 190
 Thr Leu Leu Arg Asn Asn Thr Pro Gly Thr Lys Pro Ile Gly Val His
 195 200 205

12760

Tyr Asp Gln Ile Phe Leu Arg Tyr Gly Glu Pro Thr Ser Val Thr Ala
 210 215 220
 Trp Val Pro Met Gly Asp Ile Lys Ile Asn Gly Gly Gly Leu Ile Tyr
 225 230 235 240
 Leu Glu Asp Ser Met Leu Ser Ser Cys Val Pro
 245 250

<210> 32476
 <211> 93
 <212> PRT
 <213> A.fumigatus

<400> 32476
 Gln Cys Ile Cys Thr Leu Ala Asp Gly Pro Gly Asp Pro Val Gly Leu
 1 5 10 15
 Lys Ile Glu Glu Phe Thr Thr Lys Ala Lys Gln Ala Gly Leu Thr
 20 25 30
 Asp Glu Glu Ala Arg Ser Ala Phe Asn Ser Asn Met Met Ala Thr Gly
 35 40 45
 Leu Leu Ser Glu Ser Pro Ile Glu Phe Ala Arg Gln His Gly Arg Arg
 50 55 60
 Trp Leu Val Ser Ala Tyr Glu Ala Gly Asp Val Val Leu His Lys Pro
 65 70 75 80
 His Met Val Cys Leu Arg Pro Leu Pro Arg Met Leu Ser
 85 90

<210> 32477
 <211> 191
 <212> PRT
 <213> A.fumigatus

<400> 32477
 Thr Pro Pro Gly Trp Val Asn Leu Gln Arg His Pro Val Phe Thr Thr
 1 5 10 15
 Arg Thr Tyr Ile Arg Arg Cys Asp Arg Leu Lys Asn Gly Arg Thr Arg
 20 25 30
 Ser Arg Ala Gln His Pro Ser Gln Arg Trp Pro Leu Asp Leu Arg Lys
 35 40 45
 Arg Arg Cys Ser Pro Ser Leu Arg Pro Leu Pro Pro Pro Gly Arg Thr
 50 55 60
 Pro Arg Pro Leu Arg Thr Arg Arg Leu Pro Leu Pro Gln Thr Pro Ser
 65 70 75 80
 Pro Pro Arg Arg Arg Pro Arg Ser Pro Gln Thr Val Leu Leu Pro Ala
 85 90 95
 Arg Pro Asn Arg Arg Pro Pro Arg Arg His Arg Pro Arg Pro Arg His
 100 105 110
 Leu Gln Pro His Glu Ile Pro Arg Ser Val Pro Arg His Arg Arg Arg
 115 120 125
 Arg Ser Arg Gln Gln Arg Pro Ser Gly Gly Arg Pro Gly Cys Arg Val
 130 135 140
 Cys Gly Ser Ser His Arg Gly Ala Leu Pro Gly Leu Val Cys Gly Gln
 145 150 155 160
 Val Leu Gln Pro Ser Arg Phe Gly Pro Leu Cys Gly Arg Val His Glu
 165 170 175
 Leu Gly Arg Ala Tyr Val Glu Phe Pro Pro Asp Ala Ala Glu Glu
 180 185 190

<210> 32478
 <211> 85
 <212> PRT
 <213> A.fumigatus

<400> 32478
 Val Asp Arg Gln Arg Leu Gly His Pro Leu Leu Pro Pro Arg Arg Leu
 1 5 10 15
 His Pro Val Cys Thr Thr Glu Leu Ala Asp Leu Ala Lys His Gln Ser
 20 25 30
 Glu Phe Ala Lys Arg Gly Val Lys Leu Ile Gly Leu Ser Ala Asn Ser
 35 40 45
 Ile Glu Ser His Asp Gly Trp Ile Asn Asp Ile Thr Glu Ile Ala Gly
 50 55 60
 Cys Ser Leu Thr Leu Pro Val Ile Gly Asp Glu Asp Arg Lys Ile Ala
 65 70 75 80
 His Thr Tyr Asp Met
 85

<210> 32479
 <211> 119
 <212> PRT
 <213> A.fumigatus

<400> 32479
 Gln Ser Ala Thr Arg Asn Arg Leu Asp His Gln Asp Val Thr Asn Val
 1 5 10 15
 Gly Ala Arg Gly Ile Ala Tyr Thr Ile Arg Ser Val Phe Ile Ile Asp
 20 25 30
 Ser Asn Lys Val Ile Arg Leu Ile Gln Ala Tyr Pro Ala Ser Thr Gly
 35 40 45
 Arg Ser Thr Thr Glu Leu Leu Arg Val Val Asp Ser Leu Leu Val Thr
 50 55 60
 Asp Lys Tyr Ser Val Asn Thr Pro Ala Asn Trp Glu Pro Gly Asp Asp
 65 70 75 80
 Val Val Val Pro Ala Gly Leu Thr Ala Glu Glu Ala Gln Val Lys Tyr
 85 90 95
 Pro Asn Met Glu Thr Val Lys Pro Tyr Leu Arg Phe Ile Pro Leu Ala
 100 105 110
 Arg His His Leu Tyr Gln His
 115

<210> 32480
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 32480
 Arg Ser Thr Met Leu Ser Gln Cys Ala Ala Asn His Leu Thr Ile Leu
 1 5 10 15
 Ser Asp Tyr Ala Ser Ile Tyr Arg Leu Arg Leu Gly Phe Lys Ala Pro
 20 25 30
 Asn Phe Gln Ala Asp Thr Thr Ile Gly Arg Ile Asp Phe Tyr Glu Trp
 35 40 45
 Ile Gly Asn Asp Trp Val Ile Leu Phe Ser His Pro Glu Asp Tyr Thr

12762

50 55 60
Pro Ser Ala Pro Pro Asn Trp Gln Thr
65 70

<210> 32481
<211> 196
<212> PRT
<213> A.fumigatus

<400> 32481
His Leu Met Leu Ile Lys Met Val Pro Gly Gln Trp Tyr Glu Ala Gln
1 5 10 15
Ile Arg Leu His Ser Phe His Ile Trp Ile Leu Asn Leu Arg Leu Leu
20 25 30
Gly Ser Glu Thr Arg Gly Asn Asp Tyr Ile Ile Thr Arg Leu Pro Val
35 40 45
Gly Gly Gly Val Asp Gly Val Leu Val Gly Asp Lys Gln Gly Ile His
50 55 60
Asp Thr Glu Gln Leu Ser Cys Ala Ala Thr Gly Arg Gly Arg Ile Arg
65 70 75 80
Leu Asp Glu Ala Asp His Leu Val Gly Ile Asp Asp Lys Tyr Arg Pro
85 90 95
Asp Arg Val Gly Asp Ala Ala Gly Ala Asp Val Gly Asp Val Leu Val
100 105 110
Val Glu Pro Val Pro Arg Arg Thr Leu Leu Val Ser Ser Gln Gln Trp
115 120 125
Ala Ala Asp Glu Lys Gly Arg Asp Pro Leu His Ile Ile Ser Met Gly
130 135 140
Asn Leu Ala Ile Leu Ile Ala Asn Asp Arg Gln Cys Gln Arg Thr Ala
145 150 155 160
Ser Asp Leu Gly Asn Val Val Asp Pro Ser Ile Val Arg Leu Asn Arg
165 170 175
Ile Gly Gly Gln Ala Asp Gln Leu Asp Ala Ala Leu Gly Glu Phe Gly
180 185 190
Leu Val Leu Gly
195

<210> 32482
<211> 104
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (85)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32482
Val Arg Ile Ala Phe Pro Ser Ser Pro Gly Val Glu Asp Glu Ile Arg
1 5 10 15
Leu Thr Lys Asn Leu Asn Ser Val Asn Phe Pro Glu Phe Ser Ser Thr
20 25 30
Gln Ser Leu Asn Ser Tyr Gly Asp Val Arg Thr Gln Leu Ile Gln Leu
35 40 45
Ala Glu Tyr Glu His Ile His Thr Leu Ser Cys Leu Asn Asp Leu Thr
50 55 60

12763

Gln Ile Leu Glu Asn Ser Gly Arg Gln Thr Ile Ser Leu Tyr Leu Gln
 65 70 75 80
 Met Tyr His Arg Xaa Cys Ile Ile Tyr Asn Glu Thr Cys Val Lys Tyr
 85 90 95
 Ala Val Gly Ser Thr Thr Ala Met
 100

<210> 32483
 <211> 74
 <212> PRT
 <213> A.fumigatus

<400> 32483
 Val Trp Ala Ile Leu Arg Ser Ser Ser Pro Met Thr Gly Asn Val Asn
 1 5 10 15
 Glu Gln Pro Ala Ile Ser Val Met Ser Leu Ile His Pro Ser Cys Asp
 20 25 30
 Ser Ile Glu Leu Ala Asp Arg Pro Ile Ser Leu Thr Pro Arg Leu Ala
 35 40 45
 Asn Ser Asp Trp Cys Leu Ala Arg Ser Ala Ser Ser Val Val Gln Thr
 50 55 60
 Gly Cys Ser Leu Arg Gly Gly Arg Arg Gly
 65 70

<210> 32484
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 32484
 Thr Ser Glu Thr Ile Arg Ser Ser Leu Tyr Asn Ile Cys Lys Tyr Leu
 1 5 10 15
 Ile Met Cys Met Ser Asn Thr Glu Phe Ser Tyr Lys Val Gly Lys Ser
 20 25 30
 Ala Ile Glu Lys Tyr Lys Lys Val His Glu Ala Lys Ala Val Thr Ala
 35 40 45
 Gln Leu Trp Gln Ser Ile Tyr Gly Met Glu Gln Gln Lys Pro Val Phe
 50 55 60
 Ala Arg Leu Leu Leu Val Ser Gln Ser
 65 70

<210> 32485
 <211> 110
 <212> PRT
 <213> A.fumigatus

<400> 32485
 Ala Cys Ser Arg Cys Trp Gln Gly Arg Leu Asn Ala Glu Gln Leu Leu
 1 5 10 15
 Pro Gln Cys Phe Gln Gly Glu Ser Ile Ser Cys Arg His Gly Asp Asp
 20 25 30
 Ala His Pro His Ala Arg Pro Gln Arg Ile Arg Ala Ala Glu Gln Ser
 35 40 45
 Leu Asn Ile Asp Arg Asn Asn Tyr Leu His Ile Gln Met Met Asp Arg
 50 55 60
 Leu Trp Gly Ser Gly Asp Pro Asn Glu Ser Leu Thr Asp Thr Tyr Tyr

12764

65		70		75		80									
Ala	Ala	Tyr	Asp	Asp	His	Arg	Tyr	Leu	Lys	Trp	Ala	Ser	Val	Ala	Val
			85						90					95	
Ser	Lys	Asp	Ser	Tyr	Ile	Ser	Thr	Ser	Cys	Ser	Asp	Gln	Leu		
			100					105					110		

<210> 32486
 <211> 99
 <212> PRT
 <213> A.fumigatus

<400> 32486

Ile	Arg	Ser	Ser	Met	Leu	Pro	Tyr	Gln	Pro	Asp	His	Pro	Phe	Asp	Ser
1				5					10					15	
Ser	Asn	Pro	Lys	Ser	Gly	Ser	Val	Ser	Thr	His	Arg	Ala	Leu	Lys	Ile
			20					25					30		
Ala	Arg	Gln	Gln	Val	Phe	Leu	Val	Phe	Ser	Phe	Phe	Phe	Tyr	Asn	Ser
			35				40					45			
Pro	Pro	Ile	Tyr	Leu	Leu	Pro	Ile	His	Val	Leu	Gln	Arg	Ile	Ser	Thr
		50				55					60				
Thr	Asp	Gly	Met	Leu	Ala	Ala	Ser	Leu	Ser	Leu	Ala	Arg	His	Ser	Leu
65					70					75				80	
Pro	Gly	Glu	Thr	Arg	Gln	His	Thr	Gln	Met	Ile	Gly	Ile	Phe	Arg	Leu
				85					90					95	

Arg Gly Gly

<210> 32487
 <211> 299
 <212> PRT
 <213> A.fumigatus

<400> 32487

Gln	Glu	Cys	Gly	Ser	His	Phe	Ser	Leu	Arg	Arg	Tyr	Phe	Val	Lys	Gly
1				5					10					15	
Ser	Ser	Ile	Lys	Met	Ile	Arg	Arg	Leu	Ala	Ala	Phe	Ser	Ala	Leu	Ser
			20					25					30		
Gly	Leu	Ala	Thr	Ala	Trp	Leu	Pro	Glu	Val	Asn	Lys	Lys	Ile	Thr	Ser
			35				40					45			
Thr	Asn	Gly	Thr	Asn	Leu	Phe	Thr	Ser	Ser	Asn	Gly	Lys	Ile	Arg	Gly
		50				55					60				
Val	Asn	Leu	Gly	Ser	Gln	Phe	Val	Phe	Glu	Pro	Trp	Ile	Ala	Glu	Lys
65					70					75				80	
Ala	Trp	Ser	Asp	Met	Gly	Cys	Gly	Gly	Gln	Lys	Ser	Glu	Phe	Asp	Cys
				85					90					95	
Val	Ser	Arg	Leu	Gly	Gln	Ala	Asn	Ala	Asn	Ser	Ala	Phe	Ala	Ser	His
			100					105					110		
Trp	Gly	Ser	Trp	Ile	Thr	Gln	Asp	Ile	Ala	Glu	Met	Val	Ser	Tyr	
		115				120						125			
Gly	Leu	Asn	Thr	Ile	Arg	Val	Pro	Val	Gly	Tyr	Trp	Met	Arg	Glu	Asp
		130				135					140				
Leu	Val	Tyr	Ser	Asp	Ser	Glu	His	Phe	Pro	Gln	Gly	Gly	Leu	Gln	Tyr
145					150					155				160	
Leu	Glu	Asn	Leu	Cys	Glu	Trp	Ala	Ser	Asp	Ala	Gly	Leu	Tyr	Ile	Ile
				165					170					175	

Ile Asp Leu His Gly Ala Pro Gly Ala Gln Ala Pro Gln Asn Pro Phe

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<210> 32488
<211> 69
<212> PRT
<213> A.fumigatus
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<210> 32489
<211> 436
<212> PRT
<213> A.fumigatus
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<400> 32489															
Leu	Leu	Leu	Ala	Leu	Gln	Thr	His	Leu	Ser	Met	Ala	Asn	Val	His	Gly
1				5					10					15	
Met	Leu	Ile	Ser	Ser	Ala	Val	Phe	Val	Asp	Ser	Leu	Tyr	Asn	Pro	His
			20					25					30		
Tyr	Gly	Tyr	Phe	Ser	Lys	His	Ala	Thr	Ile	Phe	Ser	Pro	Gly	Glu	Pro
			35				40					45			
Phe	Asp	Phe	Asn	Asn	Ile	Glu	Asp	Gly	Pro	Ala	Phe	His	Arg	Met	Leu
	50					55				60					
Gly	Glu	Arg	Tyr	Thr	Glu	Phe	Glu	Asn	Lys	Leu	Asp	Glu	Thr	Gln	Pro
65					70					75				80	
Asp	Val	Ala	Arg	Gln	Leu	Trp	His	Thr	Pro	Thr	Glu	Leu	Phe	Arg	Pro
				85					90					95	
Tyr	Tyr	Gly	Glu	Thr	Val	Ala	Arg	Tyr	Leu	Val	Ser	Asn	Tyr	Lys	Leu
			100					105					110		
Thr	Leu	Tyr	Pro	Tyr	His	Asp	Leu	Ile	Ile	Tyr	Glu	Met	Gly	Ala	Gly
			115				120					125			
Asn	Gly	Thr	Met	Met	Ile	Asn	Ile	Leu	Asp	Phe	Ile	Arg	Asp	Thr	Asp

130		135		140
Tyr Glu Val Tyr Gln Arg Thr Lys Phe Lys Ile Ile Glu Ile Ser Pro				
145		150		155
Ala Leu Ala Ser Leu Gln Met Lys Asn Leu Thr Asp Ser Val Asn Ala				160
	165		170	175
Ala Gly His Met Asp His Val Glu Ile Ile Asn Arg Ser Ile Phe Asp				
	180		185	190
Trp Asp Thr Tyr Val His Ser Pro Cys Phe Phe Leu Ala Leu Glu Val				
	195		200	205
Phe Asp Asn Phe Ser His Asp Ala Ile Arg Tyr Asp Cys Lys Thr Glu				
	210		215	220
Leu Pro Gln Gln Gly Gly Val Leu Ile Asp Ala Asp Gly Glu Phe His				
225		230		235
Glu Tyr Tyr Asn Ala Gln Leu Asp Pro Val Ala Ser Arg Phe Leu Arg				240
	245		250	255
Val Arg Gln Ala Ala Arg Arg Pro Phe Pro Ser Pro Leu Gly Pro				
	260		265	270
Lys Ala Met Arg Gln Leu Arg Gly Ala Leu Pro Phe Gln Ser Pro Tyr				
	275		280	285
Thr Leu Pro Glu Tyr Ile Arg Thr Arg Leu Met Gln Phe Phe Asp Ile				
	290		295	300
Leu Asp Ser Tyr Phe Arg Ala His Arg Leu Val Ala Ser Asp Phe Asn				
305		310		315
Ser Leu Pro Asp Ala Val Pro Gly Ile Asn Ala Pro Val Val Gln Thr				320
	325		330	335
Arg Tyr Lys Arg Arg Thr Val Pro Val Ser Thr Pro Phe Val Ser Thr				
	340		345	350
Phe Phe Phe Leu Thr Leu Arg Thr His Ser Asn Cys Ala Ile Gln Val				
	355		360	365
His Gln Gly Tyr Phe Asp Ile Phe Phe Pro Thr Asp Phe Asn Val Ile				
	370		375	380
Glu Asp Leu Tyr Arg Ala Ile Thr Gly Lys Leu Thr Gln Val Met Ser				
385		390		395
His Glu Asp Phe Val Arg Arg Trp Ala Tyr Ile Glu Asp Thr Glu Thr				
	405		410	415
Arg Ser Gly Glu Asn Pro Leu Leu Thr Trp Tyr Lys Asn Ala Ser Met				
	420		425	430
Leu Met Thr Val				
	435			

<210> 32490

<211> 131

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (45), (59), (112), (113), (120)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32490

Pro Arg Lys Leu Ile Asn Ile Met Thr Pro Ser Pro Ile Pro His Trp			
1	5	10	15
Lys Ser Ala Val Gln Gln Lys Arg Ala Ala Gln Leu Asn Ala Ile Pro			
	20	25	30
Pro Ser Trp Arg Leu Pro Ser Thr Ile Leu Thr Pro Xaa Leu Pro Asn			

12767

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      35              40              45
Thr Leu Glu Thr Ile Arg Ser Cys Gly Leu Xaa Ser Ala Glu Glu Leu
      50              55              60
Glu Trp Thr Glu Thr Asn Asp Val Thr Asn Leu Leu Ser Arg Leu Ala
      65              70              75              80
Ser Arg Glu Val Ser Phe Val Gln Leu Thr Thr Ala Phe Cys Lys Arg
      85              90              95
Ala Ala Ile Ala Gln Gln Met Thr Lys Cys Leu Thr Glu Ile Phe Xaa
      100              105              110
Xaa Arg Ala Leu Arg Glu Arg Xaa Asp Trp Met Ile Ser Met Arg Arg
      115              120              125
Leu Val Phe
      130

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<210> 32491

<211> 61

<212> PRT

<213> A.fumigatus

<400> 32491

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Ala Ser Ile Thr Ile Gln Ile Thr Asn Cys Arg Ser Leu Pro Gly Ala
1              5              10              15
Ser Met Ala Ser Ile Thr Thr Glu Tyr Ile Ser Val Gly Gly Asn Arg
      20              25              30
His Pro Ala Ala Ala Asp Trp Asp Val Gln Leu Gly Val Leu Ala Phe
      35              40              45
Gly Ala Asp Asn Asn Val Ala Leu Trp Asn Pro Ser Val
      50              55              60

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<210> 32492

<211> 781

<212> PRT

<213> A.fumigatus

<400> 32492

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Asp Ala Ser Gln Arg Gly Val Tyr Ala Leu Leu Val Gly His Thr Asp
1              5              10              15
Lys Val Ser Ala Val Arg Phe Tyr Thr Cys Pro Ala Thr Gly Thr Lys
      20              25              30
Leu Leu Leu Thr Gly Ser Ile Asp Gln Thr Ile Arg Ile Trp Arg Ala
      35              40              45
Asp Thr Val Asp Pro Thr Lys Phe Ala His Ala His Thr Leu Thr Gly
      50              55              60
His Thr Gly Ser Val Asn Thr Ile Ala Val Ala Asp Gly Val Ala Ile
      65              70              75              80
Ile Ala Ser Gly Ala Ala Asp Gly Thr Val Lys Ile Trp Lys Ile Asp
      85              90              95
Thr Gln Glu Thr Val Ile Arg Ala Asp Leu Phe Gln Ser Leu Thr Met
      100              105              110
Lys Pro Arg Phe Phe Pro Leu Ala Leu Ser Leu Lys Pro Leu Ser Thr
      115              120              125
Pro Leu Ser Thr Glu Leu Lys Asp Lys Pro Val Val Leu Ala Val Ala
      130              135              140
Gly Thr Met Asn Asn Val Gln Val Tyr Val Ser Glu Asp Thr Leu Ala
      145              150              155              160
Gly Ala Asn Phe Arg Leu Ser Ala Thr Leu Ser Gly His Glu Ala Trp

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11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 10

610		615		620	
Asn Pro Lys Gly His Phe Arg Met Ile Leu Asp Ala Ala Trp Ala Pro					
625		630		635	640
Gln Val Ala Lys Pro Val Phe Ala Thr Ala Gly Arg Asp Lys Ser Ile					
	645		650		655
Lys Leu Trp Glu Lys Val Gln Asp Ser Phe Thr Cys Lys Thr Thr Ile					
	660		665		670
Ser Leu Glu Asn Ser Val Thr Ala Val Ser Ile Leu Pro Ser Ile Leu					
	675		680		685
Asp Ala Ser Phe Phe Leu Ala Ala Gly Glu Glu Ser Gly Lys Leu Ser					
	690		695		700
Ile Tyr Gln Val Thr Val Asp Gly Leu Glu Ala Arg His Ile Ala Thr					
705		710		715	720
Val Asp Arg Ser Val Ser Pro Ser Arg Ala Ile Thr Gln Leu Ser Trp					
	725		730		735
Arg Pro Ser His Arg Thr Asp Val Arg Asp Thr Gln Ser Arg Phe Glu					
	740		745		750
Leu Ala Val Ala Ser Glu Asp Ser Ser Val Arg Val Tyr Ala Ile Ser					
	755		760		765
Ser Ser Pro Arg Gly Ser Lys Asp Pro Arg Tyr Ala Tyr					
770		775		780	

<210> 32493
 <211> 158
 <212> PRT
 <213> A.fumigatus

<400> 32493	
Arg Gln Ile Arg Ser Asn Pro Gly Gly Gln Ala Trp His Ser Phe Phe	
1	5 10 15
Lys Asn Lys Val Met Arg Arg Gly Trp Leu Glu Trp Leu Gln Met Ser	
	20 25 30
Met Pro Ser Asn Tyr Tyr Pro Ser Arg Ile Ser Met Arg Val Phe Ile	
	35 40 45
Val Leu Gln Ser Val Asp Val Ser Ile Val Ser Val Thr Val Cys Val	
	50 55 60
Lys Gly Cys Arg Arg Ala Ala Ser Leu Ser Ala Leu Asn Ala Ser Ile	
65	70 75 80
Leu Ala Leu Ser Ser Val Ser Arg Gln Thr Gln Ser Ala Ala Ser Leu	
	85 90 95
Ser Thr Ile Lys Lys Asp Lys Arg Gln Glu Leu Thr Arg Gly Tyr Ile	
	100 105 110
Phe His Leu Glu Arg Ser Ser Val Glu Arg Ile Met Trp Val Thr Gln	
	115 120 125
Lys Met Arg Ser Lys Ser Arg Thr Ile His Gly Tyr Leu Gly Ser Arg	
	130 135 140
Glu Asp Asn Trp Ile Phe His Gln Gly Ile Asp Gln Gly Ile	
145	150 155

<210> 32494
 <211> 512
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE

<222> (2), (4), (6)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32494

Pro	Xaa	Leu	Xaa	Pro	Xaa	Trp	Trp	Thr	His	Gly	Glu	Lys	Gly	Thr	Thr
1				5					10					15	
Asn	Phe	Ile	Thr	Glu	Ile	Ser	Phe	Leu	Thr	Val	Ala	Ala	His	His	Tyr
			20					25					30		
Gly	Ser	Glu	Ser	Leu	Thr	Ser	Lys	Leu	Asp	Gln	Leu	Glu	Lys	Asp	Leu
		35					40					45			
Arg	His	Met	Glu	Gly	Thr	Ile	Arg	Arg	Phe	Glu	Leu	Glu	Arg	Pro	Arg
	50					55				60					
Trp	Ile	His	Asn	Pro	Val	Gln	Leu	Arg	Val	Phe	Glu	Gln	Ala	Leu	Arg
65				70					75						80
Lys	Tyr	Lys	Asp	Lys	Leu	Asp	Leu	Gly	Leu	Ala	Leu	Lys	Tyr	Ser	Leu
			85					90						95	
Gln	Gly	Val	Leu	Phe	Asp	Asp	Gln	Trp	Gln	Ala	Arg	Ser	Met	Leu	Phe
		100					105						110		
Met	Arg	Tyr	Val	Ile	Val	Trp	Leu	Leu	Arg	Leu	Val	Ser	Gly	Val	Asn
		115				120						125			
Phe	Pro	Lys	Glu	Pro	Ile	Lys	Leu	Pro	Leu	Pro	Glu	Gln	Gln	Pro	Glu
	130					135					140				
Val	Phe	Lys	Cys	Leu	Pro	Glu	Tyr	Phe	Val	Asp	Asp	Ile	Val	Ser	Asn
145				150					155						160
Phe	Lys	Phe	Ile	Met	Trp	Cys	Met	Pro	Gln	Ile	Ile	Thr	Ala	Thr	Gln
			165					170						175	
Gly	Asp	Glu	Leu	Val	Met	Leu	Cys	Ile	Thr	Phe	Leu	Glu	Ser	Ser	Asp
		180					185					190			
Tyr	Ile	Lys	Asn	Pro	Tyr	Leu	Lys	Ala	Gly	Leu	Val	Ser	Ile	Leu	Phe
	195					200						205			
Arg	Gly	Thr	Trp	Pro	Arg	Pro	Gly	Gly	Ala	Arg	Gly	Val	Leu	Val	Asp
	210					215					220				
Leu	Leu	Asn	Ser	Phe	Pro	Phe	Ala	Asn	Glu	Tyr	Leu	Leu	His	Ala	Val
225				230					235						240
Met	Lys	Phe	Tyr	Ile	Glu	Ala	Glu	His	Thr	Gly	Thr	His	Thr	Gln	Phe
			245					250						255	
Phe	Asp	Lys	Phe	Asn	Ile	Arg	Tyr	Glu	Ile	Phe	Gln	Ile	Ile	Lys	Cys
		260						265				270			
Ile	Trp	Pro	Asn	Thr	Leu	Tyr	Arg	Asn	Lys	Leu	Tyr	Asn	Gln	Ser	Lys
	275						280					285			
Gln	Asn	Leu	Asp	Phe	Phe	Val	Arg	Phe	Val	Asn	Leu	Leu	Leu	Asn	Asp
	290					295					300				
Val	Thr	Tyr	Val	Leu	Asp	Glu	Ser	Phe	Gly	Ala	Phe	Ile	Thr	Ile	His
305				310					315						320
Asp	Thr	Gln	Val	Glu	Leu	Ser	Arg	Asn	Gly	Asn	Asn	Met	Asp	Pro	Gln
			325					330						335	
Glu	Arg	Gln	Gln	Lys	Glu	Glu	His	Leu	Ala	Ser	Ala	Gln	Arg	Asn	Ala
		340						345				350			
Lys	Ser	Tyr	Met	Gln	Leu	Thr	Asn	Glu	Thr	Val	Ala	Met	Leu	Lys	Leu
	355					360						365			
Phe	Thr	Glu	Ala	Leu	Ala	Asp	Ser	Phe	Thr	Met	Pro	Glu	Ile	Val	Gln
	370					375					380				
Arg	Leu	Ala	Asp	Met	Leu	Asp	Tyr	Asn	Leu	Asp	Ala	Met	Val	Gly	Pro
385				390					395						400
Lys	Ser	Ser	Ser	Leu	Arg	Val	Asp	Asn	Leu	Gln	Glu	Tyr	Gly	Phe	Asn
				405				410						415	

12771

Pro Arg Ala Leu Leu Ser Glu Ile Val Asp Val Tyr Leu Asn Leu Met
 420 425 430
 Gly Lys Glu Asn Phe Ile Leu Ala Val Ala Arg Asp Gly Arg Ser Tyr
 435 440 445
 Lys Pro Ala Asn Phe Gln Lys Ala Gly Glu Ile Leu Arg Lys Trp Ser
 450 455 460
 Leu Lys Ser Pro Glu Glu Leu Gln Gln Trp Glu Gln Leu Gln Ala Lys
 465 470 475 480
 Val Arg Ala Ala Lys Glu Ala Asp Glu Gln Ala Glu Glu Asp Leu Gly
 485 490 495
 Glu Ile Pro Asp Glu Phe Leu Gly Met Phe Gly Glu Leu Leu Thr Trp
 500 505 510

<210> 32495

<211> 123

<212> PRT

<213> A.fumigatus

<400> 32495

Asn Leu Arg Arg Ser Ser Asn Asn Gly Asn Ser Cys Arg Arg Arg Ser
 1 5 10 15
 Gly Arg Pro Arg Arg Leu Met Asn Lys Pro Arg Arg Ile Leu Ala Lys
 20 25 30
 Phe Leu Met Asn Ser Trp Val Cys Ser Ala Asn Tyr Leu Arg Gly Asp
 35 40 45
 Gly Gln Ile Ala Asp Gly Phe Ser Leu Asp Pro Leu Ile Tyr Thr Leu
 50 55 60
 Met Glu Asp Pro Val Ile Leu Pro Gly Ser Lys Val Ser Met Asp Arg
 65 70 75 80
 Ser Thr Leu Arg Ser His Leu Leu Ser Asp Pro His Asp Pro Phe Asn
 85 90 95
 Arg Ala Pro Leu Lys Met Glu Asp Val Thr Pro Gly Lys Leu Leu Ser
 100 105 110
 Phe Val Phe Leu Asn Arg Arg Lys Arg Arg Gly
 115 120

<210> 32496

<211> 164

<212> PRT

<213> A.fumigatus

<400> 32496

Gln Ser Gln Glu Ser Asn Ser Leu Asn Arg Ser Ile Val Gly Ala Trp
 1 5 10 15
 Ser Thr Asn Ser Lys Pro Gln Lys Ser Ala Glu Pro Ser Ala Ser Glu
 20 25 30
 Ser Ala Pro Thr Pro Ala Pro Val Pro Thr Lys Arg Arg Gln His Gly
 35 40 45
 Gly Glu Ser Gln Ser Ser Lys Arg Arg Lys Ala Asp Val Thr Val Asp
 50 55 60
 Arg Ser Pro Pro Thr His Val Ser Leu Ala Asp Leu Gly Gly Leu Asp
 65 70 75 80
 Asp Val Ile Gln Ser Leu Gly Asp Leu Leu Ile Leu Pro Met Thr Arg
 85 90 95
 Pro Gln Val Phe Val Ser Ser Asn Val Gln Pro Pro Arg Gly Val Leu
 100 105 110

12772

Leu His Gly Pro Pro Gly Cys Gly Lys Thr Met Ile Ala Asn Ala Phe
 115 120 125
 Ala Ala Glu Leu Gly Val Pro Phe Ile Pro Ile Ser Ala Pro Ser Ile
 130 135 140
 Val Ser Gly Met Ser Gly Glu Ser Glu Asn Leu His Asp Glu Glu Gln
 145 150 155 160
 Glu Thr Arg Gln

<210> 32497

<211> 131

<212> PRT

<213> A.fumigatus

<400> 32497

Arg Gly Glu Leu Leu Val Leu Arg Ala Ile Leu Asp Leu Lys Asn Gln
 1 5 10 15
 Arg Asp Lys Leu Arg Gln Tyr Gln Lys Arg Ile Thr Val Leu Thr Asp
 20 25 30
 Arg Glu Thr Ala Ile Ala Arg Glu Cys Leu Ala Arg Asp Asp Arg Arg
 35 40 45
 Arg Ala Leu Leu Ala Leu Arg Arg Lys Lys Tyr Gln Glu Thr Leu Leu
 50 55 60
 Ser Lys Thr Asp Ala Gln Leu Glu Gln Leu Glu His Leu Thr Ser Gln
 65 70 75 80
 Val Glu Phe Ser Leu Val Gln Lys Asp Val Leu Phe Gly Leu Gln Gln
 85 90 95
 Gly Thr Lys Val Leu Gln Ala Ile Asn Lys Glu Met Gly Gly Ile Glu
 100 105 110
 Ala Val Glu Lys Leu Met Gly Glu Thr Glu Glu Ala Arg Ala Tyr Gln
 115 120 125
 Glu Val Lys
 130

<210> 32498

<211> 311

<212> PRT

<213> A.fumigatus

<400> 32498

Glu Tyr Thr Val Thr Gln Val Ser Asn Pro Ser Leu Leu Ala Thr Leu
 1 5 10 15
 Glu Ala Leu Asp His Asp Leu Asp Ser Phe Gly Asn Ser Phe Ala Thr
 20 25 30
 Thr Val Lys Tyr Ala Gly Val Gly Ile Ala Leu Asp Arg Tyr Ala Ala
 35 40 45
 Leu Arg Asn Leu His Arg Leu Ser Arg Ile Met Gln Pro Val Lys Pro
 50 55 60
 Asp Asn Ile Ile Ala Arg Leu Ala Lys Ile Leu Glu Ser Val Pro Arg
 65 70 75 80
 Pro Phe Gly Lys Asp Gly His Trp His Ala Leu Gln Thr His Arg Val
 85 90 95
 Gln Ser Leu Gly Glu Val Gly Arg Asn Val Pro Gln Val Trp Glu Arg
 100 105 110
 Glu Gly Leu Glu Cys Arg Arg Gly His Phe Ser Gly Pro Gly Val Lys
 115 120 125

12773

His Leu Asp Glu Leu Arg Pro Gly Gly Asn Leu Glu Gly Glu Ile Leu
 130 135 140
 His Ala Asp Leu Gly Asn Leu Leu Gln Gln Cys Leu Arg Leu Leu Trp
 145 150 155 160
 Ile Leu Val Asp Pro His Leu Gly Leu His Lys Gln Leu Gly Ser Thr
 165 170 175
 Thr Phe Asn His Val Ala Glu Gln Ser Pro Trp Gly Thr Ala Glu Ala
 180 185 190
 Asn Gln Arg His Ala Ala Phe Gln Leu Val Pro Gly Lys Arg Asp Gly
 195 200 205
 Leu Val Tyr Ile Val Gln Leu Leu Leu His Val Asp Leu Leu Leu His
 210 215 220
 Asn Leu Leu Val Leu Ser Ile Val Arg Arg Leu Gln Arg Phe Arg Glu
 225 230 235 240
 Val Gly Ser Leu Leu Val His His Phe Tyr Leu His Ser His Gly Leu
 245 250 255
 Arg Asp Asp Lys Asp Ile Arg Lys Tyr Asp Cys Ser Ile Asp Gln Ser
 260 265 270
 Cys Ile Pro Ile His Gly Leu Asp Gly Gln Arg Gly Cys Asn Leu Arg
 275 280 285
 Val Pro Ala Ala Phe Glu Glu Ile Ala Val Ser Phe Arg Phe Met Val
 290 295 300
 Phe Gly Glu Val Ala Ala Ser
 305 310

<210> 32499

<211> 103

<212> PRT

<213> A.fumigatus

<400> 32499

Trp Asp Pro Ser Lys Pro Thr Ser Asp Ile Asp Cys Ser Val His Asn
 1 5 10 15
 Leu Ser Thr Ile His Leu Ser Phe Tyr Gln Ala Arg Val Leu Ser Leu
 20 25 30
 Phe Ser Val Thr Leu Trp Ile His Ile Leu Lys Leu Ile Thr Met Glu
 35 40 45
 Thr Asp Ala Gly Phe Ile Ala Ala Leu Glu Glu Ala Lys Lys Gly Ala
 50 55 60
 Ala Glu Gly Gly Val Pro Ile Gly Ala Ala Leu Val Ser Lys Asp Gly
 65 70 75 80
 Lys Ile Leu Gly Arg Gly His Asn Met Arg Val Gln Lys Gly Ser Ala
 85 90 95
 Thr Leu His Val Ser Pro Asn
 100

<210> 32500

<211> 110

<212> PRT

<213> A.fumigatus

<400> 32500

Ala Glu Met Ser Ala Leu Glu Asn Ser Gly Arg Leu Pro Ala Ser Ala
 1 5 10 15
 Tyr Glu Gly Ala Thr Met Tyr Thr Thr Leu Ser Pro Cys Asp Met Cys
 20 25 30

12774

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Thr Gly Ala Cys Ile Leu Tyr Lys Val Lys Arg Val Val Ile Gly Glu
    35                      40                      45
Asn Lys Asn Phe Met Gly Gly Glu Glu Tyr Leu Leu Asn Arg Gly Lys
    50                      55                      60
Glu Val Val Val Leu Asp Asn Glu Glu Cys Lys Gln Leu Met Glu Lys
    65                      70                      75                      80
Phe Ile Lys Glu Lys Pro Glu Leu Trp Tyr Val Phe Gln Ser Gln Leu
    85                      90                      95
Trp Phe Ser Cys Gly Ile Ile Pro Leu Leu Leu Ser Cys Ser
    100                      105                      110

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<210> 32501
 <211> 139
 <212> PRT
 <213> A.fumigatus

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<400> 32501
Thr Lys Leu Thr Ile His Ser Ser Ser Ser Lys Leu Leu Cys Phe Thr
1                      5                      10                      15
Leu Glu Ser Asp Gly Ser Leu Lys Ala Gln Asn Ser Ile Gln Ala Ser
    20                      25                      30
Gly Asn Val Leu Asp Leu Thr Val Pro Ser Glu Asn Ser Ser Ile Val
    35                      40                      45
Val Ser Val Asp Ala Val Arg Glu Ala Gly Ser Thr Gln Glu Trp Arg
    50                      55                      60
Thr Ser Pro Ser Ser Pro Ser Thr Leu Val Glu Ala Phe Arg Leu Lys
    65                      70                      75                      80
Pro Ala Ser Glu Gly Pro Leu Asp Trp Glu Arg Thr Ser Glu Ala Ile
    85                      90                      95
Thr Ala Gln Ile Asn Ser Glu Gly Thr Ser Asp Ile Ser Ala Asp Leu
    100                      105                      110
Asp Glu Lys Gln Lys Lys Glu Leu Asn Asp Ser Leu Tyr Ser Leu Gly
    115                      120                      125
Asn Leu Arg Lys Lys Asn Met Gly Glu Asp Asp
    130                      135

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<210> 32502
 <211> 354
 <212> PRT
 <213> A.fumigatus

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<400> 32502
Leu Asp Ala Leu Ala Gly Arg Tyr Leu Pro Glu Tyr His Glu Ala Lys
1                      5                      10                      15
Gly Asn Arg Asp Phe Phe Glu Cys Cys Arg Asn Pro Glu Ile Ala Ser
    20                      25                      30
Thr Leu Thr Ile Gln Pro Val Asp Arg Tyr Ala Gly Leu Ile Asp Ala
    35                      40                      45
Ala Ile Ile Phe Ser Asp Ile Leu Val Ile Pro Gln Ala Met Gly Met
    50                      55                      60
Gln Val Glu Met Val Asp Lys Lys Gly Pro His Phe Pro Glu Pro Leu
    65                      70                      75                      80
Lys Ser Pro Asp Asp Gly Gln Tyr Glu Lys Val Met Gln Lys Glu Val
    85                      90                      95
Asn Val Lys Glu Glu Leu Asp Tyr Val Tyr Lys Ala Ile Thr Leu Thr
    100                      105                      110

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12775

Arg His Lys Leu Lys Gly Arg Val Pro Leu Ile Gly Phe Cys Gly Ala
 115 120 125
 Pro Trp Thr Leu Leu Cys Tyr Met Val Glu Gly Gly Gly Thr Lys Leu
 130 135 140
 Phe Val Gln Ser Lys Met Trp Ile Tyr Lys Tyr Pro Lys Glu Ser Gln
 145 150 155 160
 Ala Leu Leu Gln Lys Ile Ala Glu Ile Cys Val Glu Tyr Leu Ala Leu
 165 170 175
 Gln Val Ala Ser Gly Ala Gln Leu Val Gln Val Phe Asp Ser Trp Ala
 180 185 190
 Gly Glu Met Ser Pro Ala Ala Phe Lys Thr Phe Ser Leu Pro Tyr Leu
 195 200 205
 Arg Tyr Ile Ser Ala Asn Leu Pro Lys Arg Leu Asp Ala Met Gly Leu
 210 215 220
 Glu Arg Val Pro Met Thr Val Phe Ala Lys Gly Ala Trp Tyr Ala Leu
 225 230 235 240
 Glu Asp Leu Cys Glu Ser Gly Tyr Asn Val Val Gly Leu Asp Trp Leu
 245 250 255
 His Asp Pro Ala Glu Ala Met Gln Ile Ala Lys Gly Arg Val Thr Ile
 260 265 270
 Gln Gly Asn Ala Asp Pro Gly Ile Leu Tyr Gly Ser Arg Glu Ala Ile
 275 280 285
 Thr Glu Ala Val Glu Val Met Val Lys Gly Phe Gln Gly Gly Lys Gln
 290 295 300
 Gly Trp Ile Ala Asn Leu Gly His Gly Ile Phe Ser Ser Leu Val Arg
 305 310 315 320
 Thr Ser Ser Ile Arg Ala Leu Thr Val Thr Gly Ile Thr Pro Phe Val
 325 330 335
 Lys Pro Asp Asp Leu Lys Phe Phe Phe Glu Glu Ile His Arg Leu Thr
 340 345 350
 Ala Ala

<210> 32503

<211> 143

<212> PRT

<213> A.fumigatus

<400> 32503

Arg Ser Val Ser Ser Asp Ser Gly Thr Ser Thr Ser Thr Pro Gln Ser
 1 5 10 15
 Ser Leu Pro Ser Met Trp Ser Ser Val Met Arg Leu Ile Glu Met Gly
 20 25 30
 Thr Thr Met Pro Ser Ala Arg Val Ser Asp Val Ser Pro Val Ser Met
 35 40 45
 Val Lys Thr Ser Ser Val Leu Ser Lys Ala Asn Cys Leu Arg Ser Ser
 50 55 60
 Ser Tyr Gly Cys Cys Asn Ser Ala Arg Ile Val Ser Ser Val Ala Arg
 65 70 75 80
 Phe Arg Trp Leu Arg Phe Phe Ser Ser Cys Ser Ala Tyr Ser Ser Arg
 85 90 95
 Ile Arg Ser Leu Thr Leu Ser Cys Ala Ser Ser Arg Lys Ser Phe Arg
 100 105 110
 Thr Ile Ala Pro Gly Pro Phe Ser Ser Val Ser Ala Leu Met Ser Ser
 115 120 125
 Ser Ser Ser Ser Lys Ala Ser Ala Ala Ile Phe Arg Ala Ile Ser

130

135

140

<210> 32504

<211> 811

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (49)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32504

Val	Gln	Glu	Leu	Leu	Ser	Arg	Pro	Phe	Thr	Met	Lys	Asp	Phe	Gln	Ile
1			5						10					15	
Val	Lys	Asp	Tyr	Val	His	Phe	Ser	Asn	Ala	Cys	Lys	Leu	Arg	Asp	Ile
		20						25					30		
Asn	Leu	Met	Asn	Gly	Glu	Ala	Asn	Gly	Glu	Thr	His	Arg	Arg	Lys	Ala
		35					40					45			
Xaa	Gly	Arg	Ser	Phe	Phe	Glu	Arg	Val	Arg	Asn	Gly	Lys	Ala	Tyr	Gly
	50					55				60					
Leu	Val	Arg	Ala	Phe	Gly	Ile	Thr	Ala	Asp	Ala	Phe	Ala	Gln	Asn	Ala
65					70				75					80	
Leu	Lys	Glu	Gly	Arg	Arg	Gln	Tyr	Thr	Glu	Asp	Pro	Ala	Glu	Arg	Pro
				85					90					95	
Glu	Glu	Met	Ala	Asp	Ser	Phe	Ile	Asp	Asn	Asp	Phe	Ser	Asn	Ala	Ser
			100					105					110		
His	Val	Leu	Lys	Thr	Ala	Lys	Ala	Leu	Phe	Ala	Glu	Glu	Ile	Val	Met
		115					120						125		
Ser	Pro	Lys	Met	Arg	Lys	Val	Ile	Arg	Gln	Ala	Tyr	Tyr	Met	Asn	Gly
	130					135					140				
Ala	Val	Asp	Cys	Phe	Arg	Thr	Glu	Lys	Gly	Leu	Arg	Arg	Ile	Asp	Glu
145					150					155					160
Gln	His	Pro	Tyr	Tyr	Glu	Phe	Lys	Tyr	Leu	Arg	Asn	Gln	Gln	Leu	Ser
			165					170						175	
Asp	Ile	Ala	Arg	Gln	Pro	Glu	Leu	Tyr	Leu	Arg	Met	Leu	Lys	Ala	Glu
			180					185					190		
Glu	Glu	Gly	Leu	Val	Glu	Val	Lys	Val	Arg	Phe	Glu	Asn	Phe	Asp	His
		195					200					205			
Phe	Arg	Gln	Arg	Leu	Tyr	Pro	Asp	Ile	Glu	Ser	Asp	Asn	Tyr	Ser	Glu
	210					215					220				
Ile	Ala	Asp	Ala	Trp	Asn	Arg	Thr	Arg	Arg	Glu	Val	Leu	Asp	Met	Ala
225					230					235					240
Leu	Gly	Lys	Leu	Glu	Arg	Leu	Ile	Asn	Arg	Ser	Val	Lys	Glu	Asn	Ile
			245					250						255	
Arg	Gln	Glu	Cys	Glu	Asn	His	Val	Ala	Lys	Glu	Cys	Arg	Glu	Ala	Phe
			260					265					270		
Ser	Gln	Arg	Leu	Asp	Gln	Ala	Pro	Tyr	Lys	Pro	Lys	Gly	Met	Val	Leu
	275						280					285			
Gly	Thr	Val	Pro	Arg	Val	Leu	Ala	Met	Ser	Thr	Gly	Thr	Gly	Ile	Val
	290					295					300				
Gly	Arg	Asp	Pro	Ile	His	Trp	Ala	Tyr	Val	Glu	Glu	Asp	Gly	Arg	Val
305					310					315					320
Leu	Glu	Asn	Gly	Lys	Phe	Val	Asp	Leu	Ser	Ile	Gly	Asp	Arg	Asp	Arg
			325					330					335		
Ser	Ile	Pro	Asp	Gly	Lys	Asp	Val	Glu	Ala	Leu	Ile	Glu	Leu	Leu	Glu

			340					345					350			
Arg	Arg	Arg	Pro	Asp	Val	Ile	Gly	Val	Ser	Gly	Met	Ser	Pro	Glu	Thr	
		355					360					365				
Arg	Lys	Leu	Tyr	Lys	Leu	Leu	Thr	Glu	Leu	Val	Glu	Lys	Lys	Asp	Leu	
	370					375					380					
Arg	Gly	Ala	Thr	Tyr	Thr	Asp	Glu	Arg	Asp	Glu	Glu	Ile	Ser	Asp	Pro	
385					390					395					400	
Leu	Glu	Val	Val	Ile	Val	Asn	Asp	Glu	Val	Ala	Arg	Leu	Tyr	Gln	His	
				405					410						415	
Ser	Glu	Arg	Ala	Lys	Lys	Asp	His	Pro	Ser	Phe	Gly	Pro	Leu	Thr	His	
			420					425					430			
Tyr	Cys	Val	Ala	Leu	Ala	Lys	Tyr	Leu	Gln	Ser	Pro	Leu	Lys	Glu	Tyr	
		435					440					445				
Ala	Ser	Leu	Gly	Arg	Asp	Ile	Val	Ser	Ile	Gln	Phe	Lys	Arg	Gly	Gln	
	450					455					460					
Gln	Leu	Val	Ala	Gln	Glu	Leu	Leu	Leu	Lys	Gln	Leu	Glu	Thr	Ala	Leu	
465					470					475					480	
Val	Asp	Met	Val	Asn	Leu	Val	Gly	Val	Asp	Ile	Asn	Glu	Ala	Val	Thr	
				485					490						495	
Asp	Pro	Ala	Thr	Ala	Asn	Leu	Leu	Pro	Tyr	Val	Cys	Gly	Leu	Gly	Pro	
			500					505					510			
Arg	Lys	Ala	Ala	His	Leu	Leu	Lys	Ile	Val	Asn	Met	Asn	Gly	Gly	Val	
		515					520					525				
Val	Asn	Asn	Arg	Val	Glu	Leu	Leu	Gly	Val	Asn	Ala	Gln	Tyr	Pro	Ala	
	530					535					540					
Met	Gly	Val	Lys	Val	Trp	Asn	Asn	Cys	Ala	Ser	Phe	Leu	Phe	Ile	Asp	
545					550					555					560	
Phe	Glu	Asn	Ala	Asp	Pro	Asp	Ala	Asp	Pro	Leu	Asp	Asn	Thr	Arg	Val	
				565					570						575	
His	Pro	Glu	Asp	Tyr	Asp	Ile	Ala	Arg	Lys	Met	Ala	Ala	Asp	Ala	Leu	
			580					585					590			
Glu	Leu	Asp	Glu	Glu	Asp	Ile	Lys	Ala	Glu	Thr	Asp	Glu	Asn	Gly	Pro	
		595					600					605				
Gly	Ala	Ile	Val	Arg	Lys	Leu	Phe	Arg	Asp	Glu	Ala	Gln	Asp	Arg	Val	
	610					615					620					
Asn	Asp	Leu	Ile	Leu	Glu	Glu	Tyr	Ala	Glu	Gln	Leu	Glu	Lys	Asn	Leu	
625					630					635					640	
Asn	Gln	Arg	Lys	Arg	Ala	Thr	Leu	Glu	Thr	Ile	Arg	Ala	Glu	Leu	Gln	
				645					650					655		
Gln	Pro	Tyr	Glu	Glu	Leu	Arg	Lys	Gln	Phe	Ala	Leu	Leu	Ser	Thr	Asp	
			660					665					670			
Asp	Val	Phe	Thr	Met	Leu	Thr	Gly	Glu	Thr	Ser	Asp	Thr	Leu	Ala	Glu	
	675</															

12778

785 790 795 800
 Leu His Arg Gly Asp Gly Lys Ile His Ser Val
 805 810

<210> 32505
 <211> 67
 <212> PRT
 <213> A.fumigatus

<400> 32505
 Gly Pro Ala Leu Ile Ser Ser His Ser Gln Ile Asp Lys Ser Tyr Thr
 1 5 10 15
 Ser Asp Ser Arg Cys Arg Pro Gly Tyr Asp Ser Leu Met Asp Ala Phe
 20 25 30
 Arg Ser Ala Ala Arg Glu Ser Tyr Val Asn Ser Asn Tyr Gln Ser Leu
 35 40 45
 Leu Val Met Gln Ala Pro Gln Leu Glu Gln Arg Leu Arg Pro His Leu
 50 55 60
 Leu Asn Arg
 65

<210> 32506
 <211> 126
 <212> PRT
 <213> A.fumigatus

<400> 32506
 Arg Ser Thr Gln Val Thr Met Leu Ser Ala His Glu Phe Asp Gln Lys
 1 5 10 15
 Pro Asn Gln Val Ser Ile Ser Pro Leu Gln Lys Leu Ala Tyr Pro
 20 25 30
 Thr Thr Gln Val Pro Val Asp Pro Ala Glu Ile Ala Ser Ala Phe Ala
 35 40 45
 Leu Ile Phe Glu Asp Arg Leu Ser Ala Ile Gln Thr Ala Ala Leu Leu
 50 55 60
 Thr Leu Leu His Ser Thr Gly Lys Asp Arg Asp Ala Gln Val Ile Ala
 65 70 75 80
 Leu Cys Ser Leu Arg Met Arg Glu Ala Ala Ser Gln Ile Glu Lys Ser
 85 90 95
 Ser Leu Gln Lys Ala Ile Lys Ala Arg Gly Lys Lys Glu Gly Asn Tyr
 100 105 110
 Gly Gly Gly Leu Val Ser Glu Ser Lys Pro Glu Pro Ile Ala
 115 120 125

<210> 32507
 <211> 331
 <212> PRT
 <213> A.fumigatus

<400> 32507
 Leu Ser Cys Leu Phe Asp Lys Phe Val Leu Val Gln Cys Asp Ile Val
 1 5 10 15
 Gly Thr Gly Gly Asp Ser His Ser Thr Phe Asn Ile Ser Thr Thr Ala
 20 25 30
 Ser Ile Ile Ala Ser Pro Leu Leu Met Met Ala Lys His Gly Asn Arg
 35 40 45

Ala	Gln	Thr	Ser	Phe	Ser	Gly	Ser	Ala	Asp	Val	Leu	Asn	Ala	Ile	Ser
50						55					60				
Pro	Val	Pro	Pro	Lys	Ile	Ser	Ala	Val	Thr	Ala	Glu	Asn	Leu	Ala	Gln
65					70					75					80
Val	Tyr	Glu	Ala	Thr	Ser	Tyr	Ala	Phe	Leu	Phe	Ala	Pro	Asn	Phe	His
				85					90					95	
Pro	Gly	Met	Met	Tyr	Ala	Asn	Pro	Val	Arg	Arg	Gly	Leu	Gly	Leu	Arg
			100					105					110		
Thr	Ile	Phe	Asn	Leu	Met	Gly	Pro	Leu	Ala	Asn	Pro	Val	Asp	Trp	Ala
		115					120						125		
Leu	Glu	Ala	Arg	Val	Val	Gly	Val	Ala	Tyr	Gln	Ser	Leu	Gly	Pro	Val
	130					135					140				
Phe	Ala	Glu	Ala	Leu	Arg	Ser	Ser	Gly	Val	Thr	Lys	Ala	Leu	Val	Val
145					150					155					160
Cys	Gly	Ala	Glu	Asp	Leu	Asp	Glu	Ile	Ser	Cys	Ala	Gly	Pro	Thr	Asn
				165					170					175	
Cys	Trp	Lys	Leu	Thr	Gly	Tyr	Pro	Asn	Pro	Asp	Tyr	Asp	Gly	Pro	Asp
			180					185					190		
Glu	Asp	Cys	Ser	Cys	Asp	Glu	Asp	Glu	Asn	Ile	Pro	Arg	Thr	Leu	Val
	195						200					205			
Lys	Ile	Glu	Thr	Phe	Gln	Leu	His	Pro	Ser	Asp	Phe	Gly	Leu	Pro	Ala
	210					215					220				
His	Pro	Leu	Ser	Ala	Val	Tyr	Gly	Arg	Lys	Met	Pro	Lys	Glu	Asn	Ala
225					230				235						240
Ala	Lys	Ile	Met	Ser	Ile	Leu	Arg	Asn	Glu	Leu	Pro	Pro	Asp	Asp	Pro
				245					250					255	
Ile	Leu	Thr	Phe	Val	Leu	Ile	Asn	Val	Ala	Ala	Leu	Leu	Val	Ile	Ser
			260					265					270		
Gly	Ile	Cys	Glu	Ala	Asp	Thr	Ser	Asn	Met	Gly	Pro	Gly	Asp	Asp	Gly
	275						280					285			
Lys	Val	Ile	Thr	Glu	Arg	Gly	Pro	Gly	Gly	Gly	Arg	Trp	Lys	Glu	Gly
	290					295					300				
Val	Arg	Arg	Ala	Arg	Trp	Ala	Val	Glu	Ser	Gly	Ser	Ala	Leu	Lys	Cys
305					310				315						320
Leu	Glu	Gln	Phe	Ile	Glu	Val	Thr	Asn	Arg	Leu					
				325					330						

<210> 32508

<211> 190

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (22)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32508

Phe	Gly	Gly	Pro	Thr	Gly	Glu	Asp	Lys	Gly	Glu	Gly	Trp	Gln	Gly	Ser
1				5				10					15		
Leu	Val	Leu	Thr	Pro	Xaa	Ser	Val	Met	Asp	Leu	Arg	Arg	Pro	Arg	Leu
			20					25					30		
Ala	Thr	Trp	Ser	Glu	Tyr	Leu	Ser	Arg	Arg	Leu	Gly	Trp	Arg	Gly	Lys
	35					40					45				
Arg	Gly	Asn	Ser	Pro	Pro	Arg	Arg	Pro	Lys	Arg	Ala	Pro	Pro	Glu	Leu
	50					55					60				

12780

Glu Leu Glu Leu Val Ala Ala Val Pro Leu Val Leu Ala Ser Ala Leu
65 70 75 80
Glu Pro Val Val Leu Glu Pro Ser Pro Leu Arg Pro Leu Ser Pro Pro
85 90 95
Ser Pro Leu Arg Pro Leu Ser Pro Leu Ser Pro Leu Ser Pro Glu Arg
100 105 110
Pro Glu Ala Pro Glu Glu Pro Glu Leu Pro Arg Leu Pro Arg Leu Pro
115 120 125
Arg Pro Gly Met Glu Val Gly Lys Val Asn Pro Gly Arg Leu Lys Pro
130 135 140
Leu Pro Glu Glu Glu Pro Pro Arg Pro Gly Met Ser Glu Ala Lys Ala
145 150 155 160
Pro Arg Pro Asp Glu Val Glu Glu Pro Pro Pro Lys Val Gly Lys
165 170 175
Arg Glu Ala Arg Ala Pro Ser Pro Ser Val Pro Val Pro Asn
180 185 190

<210> 32509

<211> 88

<212> PRT

<213> A.fumigatus

<400> 32509

Ser Arg Arg Arg Tyr Leu Ser Ile Lys Gln Gln Val Pro Cys Gln Ser
1 5 10 15
Val Ser Val Val Glu Ser Tyr Thr Thr His Leu Asn Arg Gly Ser Ser
20 25 30
Ala Ser Pro Cys Gln Asn Ile Val His Leu Lys His Asp Leu Ser Pro
35 40 45
Val Val Gly Asp Leu Ser Ala Ala Pro Ser Pro Arg Ser Gln Phe Arg
50 55 60
Asn Leu Thr Ile Phe Glu Ser Arg Ser His Leu Val Tyr Ser Val Leu
65 70 75 80
His Arg Leu Asp Gln His Pro Ser
85

<210> 32510

<211> 273

<212> PRT

<213> A.fumigatus

<400> 32510

Leu Ile Glu Ala Pro Arg Asn Tyr Phe Asn Asn Ile Gln Asp Pro Phe
1 5 10 15
Ala Leu Ser Ile Ala Asn Ser Leu Ile Tyr Val Ile Thr Lys Pro Gln
20 25 30
Asp Val Ala Glu Ala Tyr Arg Asn Thr Asp Thr Leu Ser Phe Asn Glu
35 40 45
Phe Val Gln Ala Met Met Arg Ala Cys Gly Asn Thr Glu Ser Cys Val
50 55 60
Lys Thr Met Tyr Lys Pro Leu Pro Lys Asp Lys Pro Gly Phe Pro Asn
65 70 75 80
Pro His Gly Lys Pro Leu Ala Thr Leu Ala Arg Gln Met His Ile His
85 90 95
Gln Leu Tyr Pro Gly Asp Asn Leu Asp Phe Leu Glu Lys Gln Phe Leu
100 105 110

12781

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Asp Trp Val Glu Pro Arg Leu Thr Leu Asp Ala Leu Arg Arg Glu Cys
      115                      120                      125
Pro Tyr Ala Ile Gln Ser Gly Pro Pro Ala Val Thr Lys Asp Asp Gly
      130                      135                      140
Ile Val Leu Pro Leu Met Gln Trp Cys Ser Asp Tyr Phe Thr Arg Ala
145                      150                      155                      160
Gly Gln Arg Ala Tyr Phe Gly Pro Ala Leu Asp Gly Ile Asp Pro Lys
      165                      170                      175
Leu Pro Gln Thr Phe Ile Val Phe Asp Glu Leu Ser Trp Gln Val Leu
      180                      185                      190
Tyr Gln Tyr Pro Glu Phe Leu Ala Gly Lys Met Lys Ser Ala Arg Asn
      195                      200                      205
Ala Ile Gln Arg Ala Leu Lys Lys Tyr Ile Gln Leu Pro Gln Glu Ser
      210                      215                      220
Arg Gln Gly Asp Ala Trp Phe Thr Lys Ala Met Glu Asn Glu Met Arg
225                      230                      235                      240
Ala Leu Gly Ile Ser Glu Asp Asp Ile Ala Thr Met Leu Val Thr Ile
      245                      250                      255
Tyr Trp Gly Tyr Gly Pro Ala Ile Leu Leu Thr Asp Ser Ile Glu Ala
      260                      265                      270
Ser

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<210> 32511
 <211> 204
 <212> PRT
 <213> A.fumigatus

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<400> 32511
Gln Leu Arg Ile Asn Thr Asn Thr Arg Lys Ala Ala Phe Trp Leu Leu
1      5      10      15
Thr Tyr Ile Leu His Tyr Gly Pro Glu His Tyr Val Asp Ile Arg
      20      25      30
Gln Glu Thr Leu Pro Ala Phe Phe Pro Asp Lys Ser Ile Pro Asp Leu
      35      40      45
Asn Tyr Leu His Asp Asn Cys Pro His Leu Asp Ala Met Trp Asn Glu
      50      55      60
Thr Ile Arg Leu Ser Ala Tyr Ser Ala Ser Val Arg Phe Val Thr Ser
      65      70      75      80
Asp Thr Ile Ile Gly Gly Lys Ile Leu Arg Lys Gly Asn Arg Leu Met
      85      90      95
Ile Pro Tyr Arg Gln Leu His Phe Asp Glu Ser Ile Phe Gly Val Asp
      100     105     110
Tyr Pro Val Glu Glu Phe Arg His Glu Arg Phe Met Gln Lys Gly Arg
      115     120     125
Asn Leu Thr Arg Ser Asp Asn Trp Arg Pro Phe Gly Gly Gly Thr Thr
      130     135     140
Gln Cys Pro Gly Arg Tyr Val Ala Lys Arg Phe Val Leu Leu Phe Val
      145     150     155     160
Ala Met Leu Leu Arg Arg Phe Asp Val Glu Leu Val Thr Thr Arg Ile
      165     170     175
Pro Ala Ala Glu Glu Gly Lys Pro Val Leu Gly Ile Met Ser Ile Lys
      180     185     190
Asp Gly Glu Asp Val Leu Val Arg Val Arg Pro Arg
      195     200

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<210> 32512
 <211> 223
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (201)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32512
 Asp Asn Met Lys Ile Ser Ala Thr Ala Val Val Leu Leu Ala Gly Leu
 1 5 10 15
 Ala Ala Gly Ala Pro Thr Lys Thr Ile Gln Ser Lys Phe Glu Lys Arg
 20 25 30
 Gln Phe Gly Thr Gly Thr Asp Gly Leu Gly Ala Leu Ala Ser Leu Phe
 35 40 45
 Pro Thr Leu Gly Gly Gly Gly Ser Ser Thr Ser Ser Gly Leu Gly Ala
 50 55 60
 Leu Ala Ser Leu Ile Pro Gly Leu Gly Gly Ser Ser Ser Gly Ser Gly
 65 70 75 80
 Phe Ser Leu Pro Gly Phe Thr Leu Pro Thr Ser Ile Pro Gly Leu Gly
 85 90 95
 Ser Leu Gly Ser Leu Gly Ser Ser Gly Ser Ser Gly Ala Ser Gly Leu
 100 105 110
 Ser Gly Leu Ser Gly Leu Ser Gly Leu Ser Gly Leu Ser Gly Leu Gly
 115 120 125
 Gly Leu Ser Gly Leu Asn Gly Leu Gly Ser Ser Thr Thr Gly Ser Asn
 130 135 140
 Ala Glu Ala Ser Thr Ser Gly Thr Ala Ala Thr Asn Ser Asn Ser Asn
 145 150 155 160
 Ser Gly Gly Ala Leu Phe Gly Leu Leu Gly Gly Glu Phe Pro Leu Phe
 165 170 175
 Pro Arg Gln Pro Ser Arg Leu Leu Arg Tyr Ser Asp His Val Ala Lys
 180 185 190
 Arg Gly Leu Leu Arg Ser Met Thr Xaa Asn Gly Val Lys Thr Lys Asp
 195 200 205
 Pro Cys His Pro Ser Pro Leu Ser Ser Pro Val Gly Pro Pro Asn
 210 215 220

<210> 32513
 <211> 770
 <212> PRT
 <213> A.fumigatus

<400> 32513
 Gly Ile Thr Asp Ser Ser Phe Leu Ser Ile Gly Tyr Ser Gly Val Ser
 1 5 10 15
 Leu Phe Val Ser Pro Asn Met His Ile Val Ala Val Val Met Leu Arg
 20 25 30
 Asn Asn Val Ile Pro Gly Cys His Val Met Glu Lys Glu Ser Phe Met
 35 40 45
 Ser Gln Glu Val Ala Ser Leu Leu Asn Glu Ser Phe Ile Pro Ile Lys
 50 55 60
 Val Asp Arg Glu Glu Arg Pro Asp Ile Asp Asp Val Tyr Met Asn Tyr
 65 70 75 80

Val Gln Ala Thr Thr Gly Ser Gly Gly Trp Pro Leu Ser Val Phe Leu
 85 90 95
 Thr Pro Asn Leu Glu Pro Val Phe Gly Gly Thr Tyr Trp Pro Gly Pro
 100 105 110
 Asn Ser Ser Thr Leu Ser Arg Gln Asp Thr Val Gly Phe Val Asp Ile
 115 120 125
 Leu Glu Lys Leu Arg Asp Val Trp Lys Thr Gln Gln Gln Arg Cys Leu
 130 135 140
 Asp Ser Ala Lys Glu Ile Thr Arg Gln Leu Arg Glu Phe Ala Glu Glu
 145 150 155 160
 Gly Thr His Ser Gln Gln Gly Asp Arg Gln Ala Gly Glu Asp Leu Asp
 165 170 175
 Ile Glu Leu Leu Glu Glu Ala Tyr Gln His Phe Ala Ser Arg Tyr Asp
 180 185 190
 Thr Val Asn Gly Gly Phe Ser Arg Ala Pro Lys Phe Pro Thr Pro Ala
 195 200 205
 Asn Leu Ser Phe Leu Leu Arg Leu Lys Thr Tyr Pro Ser Ala Val Ser
 210 215 220
 Asp Ile Val Gly Gln Glu Glu Cys Asp Arg Ala Ala Ala Met Ala Val
 225 230 235 240
 Ser Thr Leu Ile Ser Met Ala Arg Gly Gly Ile Arg Asp His Ile Gly
 245 250 255
 His Gly Phe Ala Arg Tyr Ser Val Thr Ala Asp Trp Ser Leu Pro His
 260 265 270
 Phe Glu Lys Met Leu Tyr Asp Gln Ala Gln Leu Leu Asp Val Tyr Val
 275 280 285
 Asp Ala Phe Lys Ile Thr His Asn Pro Glu Leu Leu Gly Ala Val Tyr
 290 295 300
 Asp Leu Ala Thr Tyr Leu Thr Thr Ala Pro Ile Gln Ser Pro Val Gly
 305 310 315 320
 Ala Phe His Ser Ser Glu Asp Ala Asp Ser Leu Pro Thr Pro Asn Asp
 325 330 335
 Thr Glu Lys Arg Glu Gly Ala Phe Tyr Val Trp Thr Leu Lys Glu Leu
 340 345 350
 Thr Gln Val Leu Gly Gln Arg Asp Ala Gly Val Cys Ala Arg His Trp
 355 360 365
 Gly Val Leu Pro Asp Gly Asn Ile Ala Pro Glu His Asp Pro His Asp
 370 375 380
 Glu Phe Met Asn Gln Asn Val Leu Ser Ile Lys Val Thr Pro Ser Lys
 385 390 395 400
 Leu Ala Arg Glu Phe Gly Leu Ser Glu Glu Glu Val Val Lys Ile Ile
 405 410 415
 Lys Ser Ala Lys Gln Lys Leu Arg Glu Tyr Arg Glu Lys Thr Arg Val
 420 425 430
 Arg Pro Asp Leu Asp Asp Lys Val Ile Val Ala Trp Asn Gly Leu Ala
 435 440 445
 Ile Gly Ala Leu Ala Lys Cys Ser Ala Leu Phe Glu Glu Ile Glu Ser
 450 455 460
 Ser Lys Ala Val Gln Cys Arg Glu Ala Ala Ala Arg Ala Ile Asn Phe
 465 470 475 480
 Ile Lys Glu Asn Leu Phe Glu Lys Ala Thr Gly Gln Leu Trp Arg Ile
 485 490 495
 Tyr Arg Asp Gly Ser Arg Gly Glu Thr Pro Gly Phe Ala Asp Asp Tyr
 500 505 510
 Ala Tyr Leu Ile His Gly Leu Leu Asp Met Tyr Glu Ala Thr Tyr Asp
 515 520 525

Asp Ser Tyr Leu Gln Phe Ala Glu Gln Leu Gln Ser Met Phe His Asp
 530 535 540
 Arg Gly Ser Phe Gly Arg Thr Ile Leu Thr Gln Ala Glu Tyr Leu Asn
 545 550 555 560
 Asp Asn Phe Leu Ala Tyr Val Gly Ser Thr Pro Ala Gly Tyr Tyr Ser
 565 570 575
 Thr Pro Ser Thr Met Thr Pro Gly Met Pro Gly Pro Leu Leu Arg Leu
 580 585 590
 Lys Thr Gly Thr Glu Ser Ala Thr Pro Ser Ile Asn Gly Val Ile Ala
 595 600 605
 Arg Asn Leu Phe Arg Leu Ser Ala Leu Leu Glu Glu Lys Glu Phe Arg
 610 615 620
 Thr Leu Ala Arg Gln Thr Cys Leu Ser Phe Ser Leu Glu Ile Leu Gln
 625 630 635 640
 His Pro Phe Leu Phe Val Gly Leu Leu Asp Val Ile Val Gly Leu Gln
 645 650 655
 Pro Thr Pro Arg Ser Val Thr Gly Val Phe Cys Thr Ala Asn Leu Pro
 660 665 670
 Gln Ser Val Thr Leu Glu Gly Thr Asp Arg Leu Ile Asn Lys Pro Glu
 675 680 685
 Glu Pro Val Ser Val Arg Asp Met Ile Ile Lys Lys Ile Arg Ser Glu
 690 695 700
 Ala Gly Ser Thr Met Val Thr Ser Ala Thr Val Thr Ser Leu Val Asp
 705 710 715 720
 Ile Arg Pro Ser His Leu Gly Asp Phe Val Gly Asn Gln Ser Phe Trp
 725 730 735
 Leu Arg Thr Arg Asn Pro Leu Leu Lys Glu Leu Lys Pro Ser Gly Thr
 740 745 750
 Val Lys Asn Tyr Leu Met Val Cys Glu Ser Gly Arg Cys Thr Met Val
 755 760 765
 Asp Val
 770

<210> 32514

<211> 141

<212> PRT

<213> A.fumigatus

<400> 32514

Ala His Cys Asp Ile Cys Ile Ser Leu Tyr Gln Lys Ser Val Pro Leu
 1 5 10 15
 Thr Lys Leu Met Leu Gly Leu Gly Arg Pro Arg Leu Lys Ala Arg Pro
 20 25 30
 Ser Leu Leu Asp Leu Ile Ala Ser Arg Gly Val Val Asp Leu Ser Glu
 35 40 45
 Ser Lys Pro Ser Ser Pro Pro Ala Thr Asp Glu Leu Pro Pro Leu Pro
 50 55 60
 Val Ser Pro Thr Ser Thr Thr Ser Ser Ser Ser Ser Asn Ser Asn
 65 70 75 80
 Ile Glu Leu Ala Ser Ser Pro Pro Ser Ser Ser Ile His Thr Pro Val
 85 90 95
 Val Arg Ile Met Ala Pro Ser Gly Lys Asp Lys Thr Gly Glu Asp Gln
 100 105 110
 His Gly Ile Ile Phe Ser Ile Ser Gly Pro Val Val Val Ala Glu His
 115 120 125
 Met Ile Gly Cys Ala Met Tyr Glu Leu Val Gly His Tyr

130

135

140

<210> 32515
 <211> 267
 <212> PRT
 <213> A.fumigatus

<400> 32515
 Gly Tyr His Ser Gly Ile Arg Gly Asp Arg Tyr Ser Ser Ala Ser Thr
 1 5 10 15
 Leu Gly Arg Thr Val Thr Gly Asn Tyr Asp Ser Asn Val Phe Leu Phe
 20 25 30
 His Pro Leu Ala Gly Leu Thr Val Gly Asp Pro Val Met Arg Thr Gly
 35 40 45
 Lys Pro Leu Ser Val Glu Leu Gly Pro Gly Leu Leu Glu Thr Ile Tyr
 50 55 60
 Asp Gly Ile Gln Arg Pro Leu Lys Glu Ile Ala Ala His Ser Lys Gly
 65 70 75 80
 Ile Tyr Ile Pro Arg Gly Ile Ala Val Asn Ala Leu Asp Arg Lys Lys
 85 90 95
 Lys Trp Asp Phe Lys Pro Gly Lys Phe Lys Val Gly Asp His Ile Thr
 100 105 110
 Gly Gly Asp Ile Trp Gly Thr Val Phe Glu Asn Ser Leu Phe Asn Asp
 115 120 125
 His Lys Ile Leu Leu Pro Pro Arg Ala Arg Gly Thr Ile Thr Arg Ile
 130 135 140
 Ala Pro Ala Gly Gln Tyr Thr Val Glu Glu Lys Leu Leu Glu Ile Glu
 145 150 155 160
 Phe Asn Gly Gln Lys Ser Glu His Gly Met Met His Ser Trp Pro Val
 165 170 175
 Arg Val Pro Arg Pro Val Asn Glu Lys Leu Pro Ser Asp Ala Pro Phe
 180 185 190
 Ile Val Gly Gln Arg Val Leu Asp Ser Leu Phe Pro Ser Val Gln Gly
 195 200 205
 Gly Thr Val Cys Ile Pro Gly Ala Phe Gly Cys Gly Lys Thr Val Ile
 210 215 220
 Ser Gln Ser Val Ser Lys Phe Ser Asn Ser Asp Ile Ile Val Tyr Val
 225 230 235 240
 Gly Cys Gly Glu Arg Gly Asn Glu Met Ala Glu Val Leu Met Asp Phe
 245 250 255
 Pro Glu Val Arg Asp Ser Arg Pro Leu Leu Arg
 260 265

<210> 32516
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 32516
 Leu Thr Gly Ile Leu Leu Leu Leu Gln Cys Arg Val Gly His Asp Gln
 1 5 10 15
 Leu Val Gly Glu Val Ile Arg Leu Asp Gly Asp Lys Ala Thr Ile Gln
 20 25 30
 Val Tyr Glu Glu Thr Gly Thr Ala Pro His Leu His Trp Asp Glu Leu
 35 40 45
 Leu Leu Ala Thr Met Thr Leu Thr Phe Ser Ser Phe Thr Leu

50

55

60

<210> 32517
 <211> 82
 <212> PRT
 <213> A.fumigatus

<400> 32517

Leu	Ser	Ile	Asp	Val	Glu	Gly	Arg	Lys	Glu	Pro	Ile	Met	Lys	Arg	Thr
1				5					10					15	
Cys	Leu	Ile	Ala	Asn	Thr	Ser	Asn	Met	Pro	Val	Ala	Ala	Arg	Glu	Ala
			20					25					30		
Ser	Ile	Tyr	Thr	Gly	Ile	Thr	Ile	Ala	Glu	Tyr	Phe	Arg	Asp	Gln	Gly
		35					40					45			
Lys	Asn	Val	Ala	Met	Met	Ala	Asp	Ser	Ser	Ser	Arg	Trp	Ala	Glu	Ala
	50					55					60				
Leu	Arg	Glu	Leu	Ser	Gly	Arg	Leu	Gly	Lys	Asp	Cys	Cys	His	Thr	Arg
65					70					75					80
Val	Ser														

<210> 32518
 <211> 280
 <212> PRT
 <213> A.fumigatus

<400> 32518

Ile	Ile	Cys	Arg	Ile	Arg	Asn	Leu	His	Arg	Thr	Gly	Arg	Met	Phe	Pro
1				5					10					15	
Gln	Ala	Arg	Ser	Gln	Val	Glu	Leu	Phe	His	His	Val	Leu	Glu	Thr	Ala
			20					25					30		
Thr	Val	Lys	His	Val	Arg	Ser	Ile	His	His	Pro	Leu	Ile	Ala	Thr	Pro
		35					40					45			
Asn	Asp	Ile	Tyr	Ala	Glu	Ser	Pro	Asn	Ser	Phe	Tyr	Val	Thr	Asn	Asp
	50					55					60				
His	Tyr	Tyr	Arg	Glu	Gly	Tyr	Gly	Arg	Leu	Ile	Glu	Asp	Leu	Ile	Pro
65					70					75					80
Ala	Ala	Lys	Trp	Ser	Ser	Ile	Val	His	Val	Leu	Ile	Gln	Asp	Leu	Lys
			85						90					95	
Ser	Lys	Asp	Ala	Asp	Lys	Gly	Ile	Asp	Ala	Thr	Val	Ala	Leu	Thr	Gly
			100					105					110		
Leu	His	Asn	Asn	Asn	Gly	Leu	Gly	His	Gly	Arg	Ser	Lys	Asp	Glu	Met
		115					120					125			
Leu	Val	Val	Ser	Cys	Met	Ser	Gly	Thr	Leu	Tyr	Arg	Ala	Arg	Ser	Asn
	130					135					140				
Ser	Asp	Asn	Arg	Thr	Ile	Ser	Val	Phe	Asp	Glu	Ile	His	Pro	Gly	Gly
145					150					155					160
Gln	Ile	Asp	Asn	Pro	Thr	Tyr	Tyr	Ala	Asp	Pro	Tyr	Arg	Thr	Ala	Ala
			165						170					175	
Asp	Asp	Ala	Ser	Gly	Tyr	Ile	Leu	Ala	Gly	Met	Ala	Arg	Pro	Ile	Asp
			180					185					190		
Leu	Ser	Lys	His	Tyr	Asn	Asp	Pro	Asn	Ala	Lys	Asp	Gly	Ala	Ile	Val
		195					200					205			
Trp	Tyr	Val	Arg	Pro	Lys	Thr	Gly	Thr	Ser	Glu	Ser	Gly	Asp	Gln	Phe
	210					215					220				
Thr	Glu	Trp	Glu	Ser	Ser	Val	Leu	Phe	Glu	Asp	Asp	Gly	Thr	Leu	Ile

12787

225		230		235		240
Arg Thr Ala Ser Thr Gly Leu Leu Val		Pro Ser Glu Thr Lys Pro Gly				
	245		250		255	
Glu Arg Lys Lys Ala Trp Leu Phe Val		Thr Gly Phe Val Ser Glu Ser				
	260		265		270	
Val Ile Ala Val Glu Val Asp Leu						
	275		280			

<210> 32519
 <211> 112
 <212> PRT
 <213> A.fumigatus

<400> 32519	
Leu Ile Phe Gln Ser Tyr Gly Gly His Tyr Gly Pro Glu Phe Ala Ser	
1	15
Tyr Ile Gln Glu Gln Asn Ala Ala Ile Lys Ala Gly Thr Val Ser Gly	
20	30
Glu Asn Ile Asn Leu Val Ala Leu Gly Val Asn Asn Gly Trp Thr Asp	
35	45
Ser Ala Ile Gln Glu Lys Ala Tyr Ile Glu Tyr Ser Tyr Asn Asn Thr	
50	60
Tyr Lys Gln Leu Ile Asn Ser Ser Asp Arg Thr Arg Leu Leu Ser Val	
65	80
Tyr Asn Ser Gln Cys Leu Pro Ala Ile Gln Lys Cys Ala Lys Thr Gly	
85	95
Thr Asn Ala Asp Cys Arg Asn Ala Asp Ser Val Cys Tyr Ser Asn Asn	
100	110

<210> 32520
 <211> 103
 <212> PRT
 <213> A.fumigatus

<400> 32520	
Ser Arg Ile Trp Ser Pro Arg Leu Thr Met Trp Cys Gln Lys Trp Leu	
1	15
Phe Ala Phe Leu Val Ala Gly Ala Ser Ala Ala Pro Ala Ser Thr Ala	
20	30
Lys Asp Ser Ile Ser Ser Val Val Lys Asn Gly Val Lys Tyr Thr Val	
35	45
Phe Glu His Ala Ala Thr Gly Ala Arg Met Glu Phe Val Lys Asn Ser	
50	60
Gly Ile Cys Glu Thr Thr Pro Gly Val Asn Gln Tyr Ser Gly Tyr Leu	
65	80
Ser Val Gly Asp Asn Met Asn Met Trp Phe Trp Tyr Val Leu His Asn	
85	95
Ser Met Thr Thr Cys Arg Ala	
100	

<210> 32521
 <211> 336
 <212> PRT
 <213> A.fumigatus

<220>

<221> UNSURE

<222> (149)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32521

Tyr	Gly	Gln	Gly	Lys	Met	Gly	Leu	His	Arg	Gln	Gly	Lys	Trp	Pro	Lys
1				5					10					15	
Gly	Lys	Met	Pro	Lys	Ala	Asp	Ala	Gly	Val	Pro	Glu	Ser	Leu	Tyr	Ser
			20					25					30		
Arg	Arg	Glu	Gly	Thr	Ser	Gln	Thr	Leu	Gly	Arg	Arg	Thr	Trp	Trp	Ser
			35				40					45			
His	Trp	Gly	Ile	Leu	Val	Gly	Lys	Asn	Gly	Leu	Ala	Ala	Ala	Val	Gly
	50					55				60					
Asn	Pro	Asn	Val	Tyr	Gly	Gln	Gly	Leu	Lys	Asp	Trp	Leu	Gln	Cys	Arg
65					70					75					80
Thr	Ile	Tyr	Ile	Met	Arg	Gln	Phe	Ser	Phe	Arg	Gly	Gly	Ala	Gly	Asp
				85				90						95	
Ala	Glu	Trp	Phe	Pro	Gly	Val	Gly	Gly	Gly	Asn	Asn	Gly	Ala	Cys	Met
			100					105					110		
Glu	Ala	Ala	Gln	Lys	Glu	Leu	Gly	Asn	Asp	Ala	Leu	Leu	Ser	Ser	Thr
			115				120						125		
Val	Val	Ser	Met	Glu	Arg	Pro	Ala	Asp	Arg	Leu	His	Arg	Ile	Leu	Val
	130					135					140				
Arg	Thr	Pro	Thr	Xaa	Tyr	Gln	Leu	Ile	Arg	Ala	Lys	Lys	Thr	Ile	Ile
145					150					155					160
Thr	Thr	Pro	Pro	Lys	Val	Glu	Asn	Leu	Val	Asn	Phe	Asp	Leu	Asp	Asp
				165				170					175		
Thr	Glu	Arg	Gly	Val	Phe	Gly	Gln	Phe	Glu	Asn	Ala	Phe	Tyr	Tyr	Thr
			180				185						190		
Thr	Val	Val	Arg	Val	Ala	Gly	Leu	Pro	Ala	Gly	Leu	Asp	Ile	Ile	Asn
	195					200						205			
Arg	Ala	Ala	Asp	Thr	Pro	Tyr	Asn	Ile	Pro	His	Leu	Pro	Gly	Val	Tyr
	210					215					220				
Ala	Met	Leu	Pro	Ser	Arg	Val	Pro	Asp	Ile	Tyr	Thr	Ile	Phe	Tyr	Gly
225					230					235					240
Gly	Gly	Glu	Ala	Lys	Thr	Glu	Asp	Glu	Val	Lys	Lys	Ser	Ile	Arg	Asp
				245				250						255	
Gly	Val	Met	Met	Leu	Arg	Glu	Ala	Gln	Phe	Thr	Pro	Ser	Glu	Pro	Glu
			260					265					270		
Ile	Leu	Ala	Ile	Ser	Asn	His	Ser	Pro	Phe	Ala	Leu	Phe	Val	Ser	Ala
			275				280						285		
Asp	Gln	Ile	Ala	Lys	Gly	Phe	Tyr	Arg	Asp	Leu	Tyr	Ala	Leu	Gln	Gly
	290					295					300				
Gln	Arg	Asn	Thr	Tyr	Tyr	Thr	Gly	Ala	Ala	Phe	His	Thr	His	Asp	Ser
305					310					315					320
Ala	Ala	Val	Trp	Ser	Phe	Thr	Asp	Asn	Leu	Leu	Thr	Thr	Met	Phe	Ala
				325					330					335	

<210> 32522

<211> 242

<212> PRT

<213> A.fumigatus

<400> 32522

Leu	His	Ala	Glu	Pro	Asn	Leu	Cys	Arg	Phe	Phe	Glu	Ala	Arg	Asn	Asn
1				5					10					15	

12789

Pro Lys Gln Ala Pro Leu Ala Ala Trp Phe Asn Gly Gly Pro Gly Cys
 20 25 30
 Ser Ser Met Ile Gly Leu Phe Gln Glu Asn Gly Pro Cys His Phe Val
 35 40 45
 Asn Gly Glu Asp Thr Pro Ser Leu Asn Lys Tyr Ser Trp Asn Asn Tyr
 50 55 60
 Ala Asn Met Leu Tyr Ile Asp Gln Pro Ile Gly Val Gly Phe Ser Tyr
 65 70 75 80
 Gly Thr Asn Asp Val Thr Ser Thr Glu Thr Ala Ala Pro Tyr Val Trp
 85 90 95
 Lys Leu Leu Gln Ala Phe Tyr Ala Gln Phe Pro Glu Tyr Glu Ser Arg
 100 105 110
 Asp Phe Gly Ile Phe Thr Glu Val Gly Pro Val Ser Asp Leu Ala Ile
 115 120 125
 Ala Glu Ile Ala Asp Leu Pro Val Leu Arg Trp Thr Leu Trp Pro Arg
 130 135 140
 Ile Arg Val Val Tyr Ser Gly Ala Lys Arg Arg His Gln Ser Arg Asn
 145 150 155 160
 Gly Ile Trp Arg Lys Tyr Gln Pro Gly Arg Thr Gly Ser Gln Gln Arg
 165 170 175
 Leu Asp Arg Leu Gly His Pro Arg Lys Gly Val Tyr Arg Val Gln Leu
 180 185 190
 Gln Gln His Leu Gln Thr Ala Tyr Gln Leu Val Arg Ser His Ala Ser
 195 200 205
 Ala Glu Arg Leu Gln Gln Pro Met Ser Ala Ser Asp Pro Glu Met Arg
 210 215 220
 Gln Asp Arg His Gln Arg Arg Leu Gln Lys Cys Arg Gln Arg Leu Leu
 225 230 235 240
 Leu Gln

<210> 32523
 <211> 87
 <212> PRT
 <213> A.fumigatus

<400> 32523
 Ala Ile Ser Cys Ile Ile Gly Trp Ile Ser Val Ser Ala Leu His Gln
 1 5 10 15
 Val Ala Asn Val Gly Cys Leu Arg Ser Arg Leu Gln Arg Thr Lys Gln
 20 25 30
 Asp Ile Arg Pro Met Trp Phe Thr Asn Phe Phe Cys Ile Val Ala Ala
 35 40 45
 Arg Arg Phe Leu Phe Leu Ile Leu Leu Thr Ile Ser Tyr Tyr Tyr Phe
 50 55 60
 Arg Ser Arg Ile Ile Asn Asn Thr Leu Ile Leu Asp Lys Leu Cys Ala
 65 70 75 80
 Thr Ser Asn Tyr Arg Pro Leu
 85

<210> 32524
 <211> 333
 <212> PRT
 <213> A.fumigatus

<220>

<221> UNSURE

<222> (77)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32524

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Val Thr His Pro Gly Ser Cys Thr Ala His Gln Lys Leu Ile Asp Ala
1          5          10          15
Arg Asn Leu Ile Asp Gly Val Ser Val Thr Ser Leu His His Ser Ile
          20          25          30
Ala His Pro Phe Pro Pro Ala Val Gly Gly Val Leu Ile Gln Pro Gly
          35          40          45
Pro Leu Pro Asp Cys Ser Leu Ser Gln Leu Thr Ala Glu Val Leu Gln
          50          55          60
Ser Arg Leu His Pro Val Leu Lys Glu Leu Gln Leu Xaa Asp Glu Leu
65          70          75          80
His Glu Thr Gln Pro Leu Asp Phe Trp Val Leu Ile Gly Ser Ile Ser
          85          90          95
Gly Thr Leu Gly His Ala Asp Gln Ala Leu Thr Ala Ala Met Ser Glu
          100          105          110
Arg Met Ala Thr Leu Val Arg Gln Arg Arg Ser Arg Gly Arg Pro Ala
          115          120          125
Ser Leu Val His Leu Gly Glu Ile Ser Gly Ile Asp Ile Pro Ala Asp
          130          135          140
Gly Ala Arg Pro Trp Trp Gly Pro Thr Ala Val Thr Gln Arg Asp Ile
145          150          155          160
Asp Glu Val Leu Ser Glu Ala Val Leu Cys Gly Gly Pro Asn Ser Phe
          165          170          175
Ala Arg Ser Ala Glu Phe Ile Val Gly Leu Arg His Gln Ser Leu Gln
          180          185          190
Thr Gly Arg Met Ala Gly Pro Val Pro Lys Leu Trp Pro Phe Tyr Ser
          195          200          205
Tyr Thr Ala Thr Ala Ser Gln Gly Gln Lys Pro Pro Ser Leu Pro Glu
210          215          220
Arg Arg Gln Ser Ala Lys Asp Leu Val Ala Ala Ala Thr Ser Arg Glu
225          230          235          240
Glu Lys Ala Glu Ala Ile Ala Ala Cys Leu Met Glu Lys Ile Arg Ala
          245          250          255
Arg Leu Lys Leu Asn Ala Asp Ala Pro Leu Ser Ser Asp Thr Leu Ile
          260          265          270
Ser Glu Leu Gly Val Asp Ser Leu Val Ala Val Glu Leu Arg Arg Trp
          275          280          285
Phe Ala Lys Gln Leu Ala Val Asp Met Ser Ile Val Leu Ile Leu Ser
          290          295          300
Gly Ala Ser Val Gly Glu Leu Ala Asn Ala Ala Ser Lys Leu Cys
305          310          315          320
Asn Gly Asn Ser Glu Leu Cys Thr Ser Ser Asn Leu Val
          325          330

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<210> 32525

<211> 122

<212> PRT

<213> A.fumigatus

<400> 32525

```

Arg Phe Leu Cys Arg Ser Pro Ser Pro Pro Pro Gln Tyr Asp Asn Phe
1          5          10          15

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12791

Gly Arg Arg Val Asn Thr Arg Glu Tyr Arg Tyr Arg Lys Arg Leu Glu
 20 25 30
 Asp Glu Arg His Lys Leu Val Glu Lys Ala Met Lys Thr Ile Pro Asn
 35 40 45
 Tyr His Pro Pro Ser Asp Tyr Arg Arg Pro Thr Lys Thr Gln Glu Lys
 50 55 60
 Val Tyr Val Pro Val Asn Asp Tyr Pro Glu Ile Asn Phe Ser Met Ile
 65 70 75 80
 Thr Asn Pro Leu Thr Pro Asn Arg Ser Cys Ile Val Ser Phe Leu Ala
 85 90 95
 Leu Cys Ser Ser Arg Ala Arg Glu Thr Ser Pro Tyr Asp Asp Val Ser
 100 105 110
 Lys Ala Arg Phe Leu Leu Thr Leu Ala Thr
 115 120

<210> 32526

<211> 194

<212> PRT

<213> A.fumigatus

<400> 32526

Asn Ser Lys Ser Met Cys Pro His Leu Asp Gly Ser Ser Asp Thr Asn
 1 5 10 15
 Glu Asp Asn Gln Ala Ala Ser Ile Pro Glu Gly Gln Asn Glu Leu Lys
 20 25 30
 Arg Asn Gln Leu Arg Glu Leu Ala Ala Leu Asn Gly Thr Leu Arg Asp
 35 40 45
 Asp Glu Asn Gln Ala Cys Gln Asn Cys Lys Phe Phe His Lys Ala Leu
 50 55 60
 Leu Val Glu Leu Leu Ile Leu Thr Arg Ala Gly Gly Gln Ile Gly His
 65 70 75 80
 Arg Lys Tyr Asp Cys Pro Glu Gln Arg Asn Phe Thr Ala Asn Ile Ile
 85 90 95
 Cys Arg Val Cys Gly Asn Ala Gly His Met Ala Arg Asp Cys Pro Asp
 100 105 110
 Arg Gln Arg Gly Ser Asp Trp Arg Asn Gly Gly Gly Tyr Gly Gly Gly
 115 120 125
 Arg Arg Ala Ile Gly Gln Gly Asp Ala Val Asp Arg Glu Met Glu Val
 130 135 140
 Ser Ser Met Trp Phe Leu Lys Tyr Arg Pro Thr Asn Ala Asp Trp Tyr
 145 150 155 160
 Ser Asn Leu Cys Lys Asn Cys Pro Val Val Leu Gln Ala Gln Thr Ala
 165 170 175
 Ser Leu Leu Ala Gly Ser Arg Leu Val Pro Ile Thr Val Thr Met Ile
 180 185 190
 Val Thr

<210> 32527

<211> 174

<212> PRT

<213> A.fumigatus

<400> 32527

Pro Leu Leu Leu Asp Tyr Leu Ala Ser Ile Ala Leu Leu Ser Leu Asn
 1 5 10 15

```

Asn His His Glu Leu Thr Leu Ser Ser Leu Leu Pro Phe Lys Val Gly
      20                      25                      30
Leu Leu Ile Gly Pro Arg Gly Asn Thr Leu Lys Lys Met Glu Ala Glu
      35                      40                      45
Ser Gly Ala Lys Ile Ala Ile Arg Gly Lys Gly Ser Val Lys Glu Gly
      50                      55                      60
Lys Gly Arg Ser Asp Ala Ala His Ala Ser Asn Gln Glu Glu Asp Leu
      65                      70                      75                      80
His Cys Leu Ile Met Ala Asp Thr Glu Glu Lys Val Asn Lys Ala Lys
      85                      90                      95
Lys Leu Val His Asn Val Ile Glu Thr Val Ser Leu Cys Ala Leu Thr
      100                     105                     110
Trp Thr Asp Leu Gln Thr Leu Thr Arg Ile Thr Arg Leu Pro Arg Phe
      115                     120                     125
Pro Lys Ala Arg Thr Asn Ser Arg Glu Thr Ser Cys Glu Ser Trp Leu
      130                     135                     140
Leu Ser Thr Val Pro Ser Val Met Met Arg Ile Arg Leu Val Arg Thr
      145                     150                     155                     160
Val Ser Phe Ser Ile Lys Leu Ser Ser Leu Asn Cys Leu Tyr
      165                     170

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<210> 32528

<211> 167

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (11)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32528

```

Ala Val Gly Gly Leu Glu Val Lys Met Ala Xaa Lys Lys Arg Val Ala
1      5      10      15
Arg Arg Arg Leu His Leu Ser Ala Glu Ile Met Gly Ser Ser Val Ala
      20      25      30
Glu Thr Gln Phe Glu Val Arg Leu Cys Leu Cys Cys Ile Ile Phe Asn
      35      40      45
Arg Phe Ile Asn Phe Ser Ser Phe Thr Ala Asp Pro Pro Ala Asp Gly
      50      55      60
Val Lys Arg Arg Lys Lys Arg Asn Arg Trp Gly Asp Ala Gln Glu Asn
      65      70      75      80
Lys Ala Ala Gly Leu Met Gly Leu Pro Thr Met Ile Met Ala Asn Phe
      85      90      95
Thr Asn Glu Gln Leu Glu Ala Tyr Thr Leu His Leu Arg Ile Glu Glu
      100     105     110
Ile Ser Gln Lys Leu Arg Ile Asn Asp Val Val Pro Ala Asp Gly Asp
      115     120     125
Arg Phe Val Phe Val Pro Leu Ser Ser Phe Phe Phe Phe Phe Phe
      130     135     140
Phe Phe Phe Leu Phe Arg Arg Glu Leu Thr Phe Ser Val Gln Ile Pro
      145     150     155     160
Ile Ala Ala Ser Ala Val Arg
      165

```

<210> 32529

12793

<211> 196
<212> PRT
<213> A.fumigatus

<400> 32529
Leu Val Gln Gln Leu Met Gln Glu Leu Ser Gly Gly Ala Pro Gly Pro
1 5 10 15
Asp Gly Gln Pro Pro Arg Arg Ile Glu Ala Gly Pro Asp His Gly Tyr
20 25 30
Asp Asp Arg Asp Val Lys Pro Trp Gln Arg Gly Pro Pro Pro Ser Asp
35 40 45
Val Ala Pro Trp Gln Gln Arg Gly Arg Asp Asn Arg Ser Arg Asp Asp
50 55 60
Tyr Gly Ser Arg Asp Gln Gly Ser Ala Pro Pro Trp Ala Ala Gln Ser
65 70 75 80
Arg Gly Gly Asp Tyr Gly Tyr Gly Ser His Ala Gly Gly Tyr Gly Ala
85 90 95
Pro Gly Ala Gly Ala Ala Thr Ser Gly Ala Ala Pro Trp His Gln Gln
100 105 110
Ala Pro Pro Pro Pro Gly Gly Ala Ser Ala Tyr Gly Tyr Gly Ala
115 120 125
Tyr Pro Gly Tyr Gly Ala Ala Val Pro Gly Met Gly Ala Pro Gly Ala
130 135 140
Pro Pro Gly Leu Ser Val Pro Pro Pro Pro Gly Met Pro Ser Met
145 150 155 160
Tyr Tyr Gly Ser Gly Ser Pro Pro Pro Pro Gly Glu Gly Pro
165 170 175
Pro Pro Pro Val Cys Ser Pro Phe Gly Pro Thr Asp Gln Leu Glu Ile
180 185 190
Arg Gln Asp Cys
195

<210> 32530
<211> 65
<212> PRT
<213> A.fumigatus

<400> 32530
Arg Cys Arg Trp Val Asp Thr Pro Met Ile His Arg Ser Ile Glu Ser
1 5 10 15
Gly Thr Leu Asp Ser Gln Phe Ala Met Ile Pro Leu Gly Arg Pro Ala
20 25 30
Val Ala Asp Glu Ile Ala His Ala Ile Leu Phe Leu Ala Ser Pro Met
35 40 45
Ser Ser Tyr Met Cys Gly Glu Ala Met Val Val Asp Gly Gly Leu Ser
50 55 60
Ala
65

<210> 32531
<211> 228
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (7)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32531

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Pro Gln Ser Asn Gly Met Xaa Gly Val Pro Gly Leu Trp Thr Pro Glu
1          5          10          15
Gln Ala Ala Gly Trp Lys Arg Val Val Asp Ala Val His Glu Gln Gly
20          25          30
Gly Tyr Ile Tyr Cys Gln Leu Trp His Ala Gly Arg Ala Thr Ile Pro
35          40          45
Gln Met Thr Gly Ser Pro Ala Val Ser Ala Ser Ala Thr Val Trp Asp
50          55          60
Ser Pro Thr Glu Cys Tyr Ser His Pro Pro Val Gly Ser Thr Glu Pro
65          70          75          80
Val Arg Tyr Ala Asp His Pro Pro Ile Glu Leu Thr Ile Pro His Leu
85          90          95
Lys Gln Thr Ile Arg Asp Tyr Cys Asn Ala Ala Lys Thr Ala Met Glu
100         105         110
Ile Gly Phe Asp Gly Val Glu Leu His Ala Gly Asn Gly Tyr Leu Pro
115         120         125
Glu Gln Phe Leu Ser Ser Asn Val Asn Lys Arg Thr Asp Glu Tyr Gly
130         135         140
Gly Ser Pro Glu Lys Arg Cys Arg Phe Val Leu Glu Leu Met Asp Glu
145         150         155         160
Leu Ala Ala Thr Val Gly Glu Asp Asn Leu Ala Ile Arg Leu Ser Pro
165         170         175
Phe Gly Leu Phe Asn Gln Ala Arg Gly Glu Gln Arg Val Glu Thr Trp
180         185         190
Thr Phe Leu Cys Glu Ser Leu Lys Lys Ala His Pro Asn Leu Ser Tyr
195         200         205
Val Ser Phe Ile Glu Pro Val Ser Phe Pro Tyr Asn Tyr Asn Pro Trp
210         215         220
Leu Pro Gln Leu
225

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<210> 32532

<211> 114

<212> PRT

<213> A.fumigatus

<400> 32532

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Pro Val Gln Arg Tyr Glu Gln Ile Phe Ser Tyr Glu Glu Lys Asp Asn
1          5          10          15
Phe Leu Arg Ser Trp Gly Leu Ser Asp Val Asp Leu Ser Ser Phe Arg
20          25          30
Lys Ile Phe Gly Thr Thr Pro Phe Phe Ser Ala Gly Gly Trp Asp Gln
35          40          45
Ser Asn Ser Trp Gly Val Leu Glu Glu Gly Arg Tyr Asp Ala Leu Leu
50          55          60
Tyr Gly Arg Tyr Phe Thr Ser Asn Pro Asp Leu Val Glu Arg Leu Arg
65          70          75          80
Lys Gly Ile Pro Phe Thr Pro Tyr Asp Arg Ser Arg Phe Tyr Gly Pro
85          90          95
Phe Glu Asp Asn Ala Lys Cys Tyr Val Asp Tyr Pro Pro Ala Thr Ala
100         105         110
Ser Ser

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<210> 32533
 <211> 103
 <212> PRT
 <213> A.fumigatus

<400> 32533
 Arg Phe Arg Trp Pro Asp Gln Ser Ser Ser Thr Ala Lys Met Thr Ile
 1 5 10 15
 Arg Lys Leu Asp Gly Glu Glu Ser Met Leu Phe Gln Pro Leu Glu Ile
 20 25 30
 Ala Asn Gly Arg Ile Arg Leu Ser His Arg Val Val His Ala Pro Met
 35 40 45
 Thr Arg Asn Arg Gly Val Pro Leu Asn Pro Thr Ser Thr Pro Glu Gln
 50 55 60
 Pro Asn Arg Ile Trp Tyr Pro Gly Asp Leu Met Val Gln Tyr Tyr Arg
 65 70 75 80
 Gln Arg Ala Thr Pro Gly Gly Leu Ile Ile Ser Glu Gly Val Pro Pro
 85 90 95
 Ser Leu Glu Val Gly Thr Phe
 100

<210> 32534
 <211> 69
 <212> PRT
 <213> A.fumigatus

<400> 32534
 Pro Gln Cys Leu Leu Pro Val Arg Arg Ser Val Ser Leu Ala Ala Arg
 1 5 10 15
 Leu Pro Ala Asp Leu Ser Lys Phe Ser Phe Leu Phe Ile Val Ile Ile
 20 25 30
 Leu Leu Arg Arg Leu Val Leu Val Val Thr Gln Asn Asn Cys Ile Pro
 35 40 45
 Val Leu Phe Gly Asn Gly Gln Glu Ser Gln Leu Glu Leu Thr Arg Leu
 50 55 60
 Ser Glu Ser Ser His
 65

<210> 32535
 <211> 221
 <212> PRT
 <213> A.fumigatus

<400> 32535
 Thr Phe Trp Arg Ala Leu His Cys Ala Lys Ser Ala Ala Met Ser Ser
 1 5 10 15
 Gly Ser Glu Asp Trp Leu Gly Ala Gly Gly Ala Ala Thr Asp Asp
 20 25 30
 Asp Ile His Thr Gln Arg Pro Arg Tyr Ala Ser Gly Asn Asn Glu Asn
 35 40 45
 Leu Asn Glu Asp Ala Asp Tyr Ser Met Ile Met Ser Tyr Pro Ala Glu
 50 55 60
 Glu Glu Asp Tyr Tyr Ala Leu Leu Gly Leu Arg Arg Thr Pro Thr Pro
 65 70 75 80

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<210> 32536
<211> 132
<212> PRT
<213> A.fumigatus
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<210> 32537
<211> 64
<212> PRT
<213> A.fumigatus
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<400> 32537
Pro Asp Pro Gly Asp Asp Arg Leu Thr Thr Asn Met Arg Ile Ser Ile
1          5          10          15
Ser Gly Pro Asp Gly Val Cys Trp Lys Ile Ala Ile Thr Phe Arg Pro
20          25          30
Leu Ser His Gly Ala Lys Leu Thr Pro Leu Phe Ser Ser Pro Gly Arg
35          40          45

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12797

Leu Ser Asp His Phe Pro Lys Ala Ala Glu Arg Glu Ser Ala Val Pro
50 55 60

<210> 32538
<211> 62
<212> PRT
<213> A.fumigatus

<400> 32538
Ser Leu Trp Arg His Arg Arg Ser Arg Ser Asn Ala Ile Lys Arg Cys
1 5 10 15
Ser Ser Pro Arg Lys Ser Val Ala Asn Ser Met Gln Ala Thr Ile Leu
20 25 30
Gln Ala Cys Ile Thr Gly Phe Leu Ala Leu Ala Val Gly Leu Cys Phe
35 40 45
Ser Lys Leu Pro Asn Leu Asn Gln Val Gln Tyr Ser Val Arg
50 55 60

<210> 32539
<211> 218
<212> PRT
<213> A.fumigatus

<400> 32539
His Arg Lys Lys Arg Leu Ile Asn Pro Glu Gly Asp Gly Trp Pro His
1 5 10 15
Arg Thr Gly Ser His Gly Met Met Glu Ser Arg Ser Ile Ser Arg Val
20 25 30
Ala Val Asp Ser Lys Ser Ile Gln Pro Ala Ser Ser His Ala Ala Glu
35 40 45
Ser Pro Ala Val Pro Asp Ser Ser Phe Ala Thr Pro Ile Glu Leu Ser
50 55 60
Ser Thr Pro Pro Gln Pro Leu Pro Glu Arg Pro Asp Asn Met Arg Arg
65 70 75 80
Thr Ser Trp Ser Gln Gly Ala Asn Gly Tyr Val Glu Tyr Ile Arg Pro
85 90 95
Arg Trp Gln Pro Asp Ser Glu Val Thr Asn Cys Pro Ile Cys Gly Thr
100 105 110
Thr Phe Ser Phe Trp Tyr Arg Lys His His Cys Arg Lys Cys Gly Arg
115 120 125
Val Val Cys Ala Ala Cys Ser Pro His Arg Ile Thr Ile Pro Arg Gln
130 135 140
Phe Ile Val Arg Pro Pro Glu Ser Asn Arg Ser Pro Ala Val Asn Leu
145 150 155 160
Ile Pro Pro Arg Ala Ala Gln Val Ile Asn Val Asp Gly Asp Asp Thr
165 170 175
Ser Gln Ser Pro Gly Gly Asp Gln Ser Ser Arg Arg Trp Arg Gly
180 185 190
Gly Thr Thr Leu Gln Pro Val Cys Ala Arg Pro Glu Pro Gly Thr Ala
195 200 205
Ser Gly Leu Pro Cys Gly Ser Arg Arg Trp
210 215

<210> 32540
<211> 330
<212> PRT

<213> A.fumigatus

<400> 32540

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Met Gly Thr Ile His Arg Asn Arg Pro Val Ala Ile Asn Pro Ala Leu
1           5           10           15
Gly Gly Gly Glu Glu Val Arg Leu Cys Asn Pro Cys Val Pro Asp Pro
20           25           30
Asn Pro Glu Pro Leu Arg Gly Tyr Pro Ala Val Arg Gly Gly Gly Glu
35           40           45
Gln Gly Thr Asn Trp Gly Arg Gly Ser Pro Ser Gln Gly Arg His Arg
50           55           60
Ser Tyr His Ser Met Ser Thr Ser Thr Arg Gln Phe Pro Tyr Asp Ala
65           70           75           80
Phe Val Ser Phe Val Asn Leu Arg Asp Arg Leu Ser Asn Thr Asp Thr
85           90           95
Ile Ser Ser Phe Gln Thr Glu Ser Ser Ser Arg Leu Asn Arg Arg
100          105          110
Ser Ile Ser Ser Asn Gly Tyr Thr Gly Leu Gly Gly Ala Leu Gly Gly
115          120          125
Val Phe Ser Ser Ser Leu Gln Glu Arg Pro Met Arg Tyr Gly Ser Leu
130          135          140
Pro Gly Ser Gln Tyr Ser Gly Arg His Val Ser Ser Ser Ala Arg Pro
145          150          155          160
Tyr Leu Gly Tyr Phe Arg Ala His Arg His Leu Pro Pro Pro Ala Pro
165          170          175
Glu Gly Thr Ser Val Ser Thr Gly Gly Ser Phe Ser Thr Thr Ser Asp
180          185          190
Asp His Asp Ser His Arg Arg Val Ser Tyr Pro Ala Arg His His Val
195          200          205
Asp Glu Ser Asp Ile Cys Pro Ile Cys Ser Asp Glu Leu Pro Pro Leu
210          215          220
Gly Glu Asn Gly Asn Glu Asp Ala Arg Glu Ala His Ile Arg Glu Cys
225          230          235          240
Ile Glu Ser His Gly Arg Gly Thr Arg Ser Thr Ser Arg Gly Gly Ser
245          250          255
Pro Val Ala Ala Ser Pro Val Pro Val Arg Met Leu Ala Phe Thr Ala
260          265          270
Thr Glu Lys Asp Cys Leu Gly Gln Asp Gly Ala Val Gln Glu Cys Thr
275          280          285
Ile Cys Met Glu Asp Tyr Glu Val Gly Gln Pro Leu Val Arg Leu Glu
290          295          300
Cys Leu Cys Lys Phe His Lys Arg Cys Ile Val Glu Trp Phe Glu Arg
305          310          315          320
Lys Lys Glu Cys Pro Val His Lys Val Ala
325          330

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<210> 32541

<211> 62

<212> PRT

<213> A.fumigatus

<400> 32541

```

Leu Ser Leu Asp Leu Gln Gln Leu Ala Ser Tyr Met Ala Tyr Arg Cys
1           5           10           15
Arg Asn Leu Leu Phe Thr Pro Glu Trp Ile Phe His Leu Ala Thr Leu
20           25           30

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12799

Pro Ser Thr Cys Leu Pro Asn Pro Thr Lys Leu Gln Leu Val Asp Gly
 35 40 45
 Val Leu Gln Asp Gln Asn Leu Pro Phe Leu Val His Cys Leu
 50 55 60

<210> 32542
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 32542
 Leu Pro Leu Asp His Ala Val Ser Ala Ser Thr Val Tyr Leu Ile Arg
 1 5 10 15
 Ser Leu Gly Thr Val Trp Gly Val Ala Ile Thr Ser Ala Ile Ile Gln
 20 25 30
 Asn Thr Leu Arg Ser Gly Leu Ser Lys Ala Leu Ser Gly Ile Pro Asp
 35 40 45
 Lys Trp Lys Val Thr Ser Leu Lys Trp Ser Ile Ser Val Arg
 50 55 60

<210> 32543
 <211> 63
 <212> PRT
 <213> A.fumigatus

<400> 32543
 Ile Ile Glu Gln Ile Arg His Ser Val Ser Ala Ile Gln Asp Leu Pro
 1 5 10 15
 Pro Asp Ile Gln Met Ala Ala Arg Leu Val Tyr Tyr Arg Gly Ile Arg
 20 25 30
 Leu Ser Phe Ala Ala Ala Ala Gly Phe Ala Phe Leu Ala Thr Ile Ala
 35 40 45
 Ala Leu Phe Ser Arg Gly Lys Gly Leu His Arg Gly Ser Ser Ala
 50 55 60

<210> 32544
 <211> 312
 <212> PRT
 <213> A.fumigatus

<400> 32544
 Trp Asn Ser Arg Ser Leu Ser Ala Ile Met Ser Asn Val Phe Leu Ser
 1 5 10 15
 Gly Phe Asp Gly Thr Ile Thr Ala Ser Thr Tyr Ala Val Ile Ser Ser
 20 25 30
 Glu Phe Asn Ala Ala Asn Thr Ala Ser Trp Leu Thr Thr Ser Tyr Leu
 35 40 45
 Ile Thr Ser Thr Ala Phe Gln Pro Leu Tyr Gly Arg Phe Ser Asp Ile
 50 55 60
 Phe Gly Arg Arg Val Ser Phe Phe Thr Ala Thr Ile Thr Phe Ile Ile
 65 70 75 80
 Gly Cys Leu Gly Cys Gly Ile Ala Asp Asp Ile Val Leu Leu Asn Met
 85 90 95
 Met Arg Ala Leu Thr Gly Ile Gly Gly Gly Leu Met Thr Met Gly
 100 105 110
 Lys Leu Pro Ser Pro Pro Ala Gly Gly Pro Pro His Ser His Gly Pro

12800

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      115              120              125
Ala Thr Ile Val Asn Ser Asp Leu Ile Pro Phe Lys Arg Arg Gly Met
  130              135              140
Tyr Gln Ala Leu Gln Asn Gly Met His Gly Phe Gly Ser Ile Cys Gly
  145              150              155              160
Ala Ser Phe Gly Gly Ser Ile Val Asp Thr Val Gly Trp Arg Trp Cys
      165              170              175
Phe Leu Val Gln Val Pro Ile Gly Leu Phe Ala Leu Ile Thr Gly His
      180              185              190
Leu Val Leu His Leu Pro Arg His His Gln Thr Phe Gly Gln Gly Arg
      195              200              205
Gly Phe Arg Ala Ile Leu Arg Tyr Val Asp Leu Ser Gly Ala Leu Leu
      210              215              220
Leu Ile Leu Gly Leu Ser Ser Gln Leu Ile Gly Leu Ser Leu Gly Gly
  225              230              235              240
Asn Glu Leu Pro Trp Ser Ser Ile Trp Val Ile Leu Ser Leu Met Ala
      245              250              255
Ser Leu Phe Leu Leu Gly Leu Phe Met Leu Val Glu Glu Lys Thr Pro
      260              265              270
Ala Val Pro Leu Ile Pro Ser Arg Met Leu Arg Gly Val Met Pro Val
      275              280              285
Ser Thr Gln Ile Ala Asn Val Cys Val Gly Met Ala Ala Tyr Ala Val
      290              295              300
Ser Gly Pro Pro Leu Gly Tyr Ile
  305              310

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<210> 32545

<211> 131

<212> PRT

<213> A.fumigatus

<400> 32545

```

Ala Thr Ala Tyr Gln Arg Gln Phe Leu Phe Thr Leu Pro Leu Leu Phe
  1              5              10              15
Gln Val Val Leu Leu Asp Thr Pro Thr Lys Ala Gly Ala Arg Leu Ala
      20              25              30
Ile Pro Ser Leu Ala Ala Pro Ile Gly Ser Leu Ile Ala Gly Val Val
      35              40              45
Met Ser Arg Trp Gly Arg Leu Ala Tyr Leu Val Arg Ala Gly Cys Leu
      50              55              60
Leu Met Cys Ile Gly Asn Leu Leu Val Met Ser Ile Lys Phe His Asp
      65              70              75              80
Ala Gly Trp Lys Tyr Leu Thr Tyr Val Ile Pro Ala Ser Leu Gly Gln
      85              90              95
Gly Ile Val Tyr Pro Gly Ile Leu Phe Thr Phe Leu Ala Ala Phe Asp
      100              105              110
His Thr Gly Lys Leu Gly Ser Leu Ser Tyr Arg Asn Val Arg Ala His
      115              120              125
Asp Phe His
      130

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<210> 32546

<211> 354

<212> PRT

<213> A.fumigatus

12801

<400> 32546

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Asn Arg Cys Val Arg Ser Val Asp Pro Cys His Arg Gln Lys Gly Pro
1      5      10      15
Leu Pro Pro Val Arg Cys Ala His Ser Thr Asn Glu Phe Leu Ile Ala
20      25      30
Phe Gly Gln Ser Thr Thr Phe Leu Leu Arg Ser Leu Gly Gln Ala Leu
35      40      45
Lys Pro Leu Leu Asn Ser Asp Cys Glu Ile Ile Val Ser Ile Leu Cys
50      55      60
His Glu Gly Ser Ala Ala Ala Trp Val Ala Leu Ala Lys Asp Leu Gly
65      70      75      80
Ile Ala Ile Lys Trp Trp Ala Pro Pro Pro Gly Asp Asp Pro Val Leu
85      90      95
Ser Leu Asp Thr Leu Arg Pro Leu Leu Thr Pro Lys Thr Arg Leu Val
100     105     110
Ala Cys Asn His Val Ser Asn Val Val Gly Thr Ile His Pro Ile Arg
115     120     125
Gln Val Ala Asp Leu Val His Arg Ile Pro Gly Ala Val Leu Val Val
130     135     140
Asp Gly Val Ala Trp Ala Pro His Arg Pro Ile Asp Val Lys Ala Leu
145     150     155     160
Asp Val Asp Phe Tyr Cys Phe Ser Trp Tyr Lys Val Phe Gly Pro His
165     170     175
Val Ala Gln Leu Tyr Gly Arg Arg Ser Ala Gln Lys Arg Ala Leu Ala
180     185     190
Gly Ile Ser His Phe Phe Leu Ser Glu Met Pro Gly Leu Asp Trp Arg
195     200     205
Leu Arg Leu Gly Ala Asn Ser Phe Glu Leu Glu Glu Ala Leu Val Pro
210     215     220
Ile Thr Arg Tyr Leu Lys Arg Val Gly Trp Asp Asn Ile Ile Ala Gln
225     230     235     240
Glu Thr Val Leu Gln Asp Val Phe Leu Ala Tyr Leu Arg Arg Arg Pro
245     250     255
Arg Val Phe Arg Ile Phe Gly Glu Gln Ser Ser Asp Pro Ala Lys Arg
260     265     270
Val Pro Val Ile Thr Phe Glu Val Ile Gly His Ser Ser Thr Val Val
275     280     285
Ala Asn Lys Val Asn Gln Arg Gly Arg Phe Arg Val Val Ser Gly Asn
290     295     300
Cys Trp Ala Pro Arg Pro Thr His Asp Val Leu Gly Leu Gly Ala Glu
305     310     315     320
Gly Leu Ile Arg Val Ser Phe Val His Tyr Asn Thr Val Ala Glu Val
325     330     335
Gln Glu Phe Cys Thr Glu Leu Asp Ser Val Leu Glu Thr Leu Asn Ala
340     345     350
Gly Ile

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<210> 32547

<211> 437

<212> PRT

<213> A.fumigatus

<400> 32547

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Ile Arg Ala Lys Thr His Val Tyr Ala Leu Val Arg Gly Ser Ser Glu
1      5      10      15

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12802

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Asn Gln Ala Arg Glu Arg Leu Val Gln Lys Ala Ile Ser Ala Gly Trp
      20              25              30
Trp Gln Asp Ala Tyr Arg Thr Arg Leu His Val Trp His Gly Asp Leu
      35              40              45
Thr Gln Pro Gln Leu Gly Leu Ser Gln Leu Gln Trp Gln Met Leu Gln
      50              55              60
Gly Lys Ala Ser Pro Ser Ile Asp Ala Ile Ile His Asn Gly Ala Lys
      65              70              75              80
Val His Tyr Ser Gln Asp Tyr Glu Thr Leu Lys Lys Thr Asn Val Ser
      85              90              95
Pro Thr Val Glu Leu Leu Lys Ala Val His Asp Arg Glu Glu Pro Leu
      100             105             110
His Ser Phe Val Phe Val Ser Gly Gly Gln Gln Leu Ser Phe Asp Asp
      115             120             125
Arg Glu Asp Glu Lys Asn Ala Lys Ser Leu Lys Gly Ser Gly Tyr
      130             135             140
Ala Arg Ser Lys Ala Val Ser Glu Gln Ile Val Arg Arg Phe Ala Asn
      145             150             155             160
Gln Lys Gly Ser Lys Ala Arg His Val Arg Ile Val Lys Pro Gly Phe
      165             170             175
Ile Ile Gly Asp Ala Glu Arg Gly Leu Ala Asn Gln Ser Asp Phe Ile
      180             185             190
Trp Arg Leu Ile Ala Ala Cys Val Glu Leu Gly Phe Tyr Asn Gly Asp
      195             200             205
Glu Ala Asp Ser Trp Leu Phe Ile Ser Asp Ile Thr Arg Val Ala Gln
      210             215             220
Val Ile Leu His Ser Val Phe Glu Asp Asp Ser Gln Pro Val Thr Lys
      225             230             235             240
Val Leu Asp Gly Leu Arg Phe Lys Thr Leu Trp Ala Leu Leu Gln Asp
      245             250             255
Lys Phe Gly Phe Glu Leu Gln Pro Leu Ser Arg Arg Glu Trp Leu Ala
      260             265             270
Arg Leu Lys His Ser Val Ala Thr Lys Lys Glu Lys His Val Leu Phe
      275             280             285
Pro Leu Leu Tyr Leu Leu Glu Ala Asp Glu Glu Pro Ile Gly Val Phe
      290             295             300
Gln Gly Pro Leu Asp Pro Thr Thr Gly Val Glu Ala Ala Leu His Ala
      305             310             315             320
Asn Ile Thr His Leu Val His Ser Arg Phe Leu Val Gly Ala Asp Pro
      325             330             335
Val Leu Thr Pro Val Thr Ser Val Ala Ser Pro Ala Pro Val Thr Asp
      340             345             350
Ala Ile Asp Val Gln Ser Leu Arg Glu Gln Phe Pro Ala Leu His His
      355             360             365
Gly Val Val Pro Phe Asn Asn Ala Ala Gly Thr Val Val His Arg Glu
      370             375             380
Ala Ala Glu Ser Thr His Arg Tyr Met Thr Ser Phe Pro Tyr Glu Leu
      385             390             395             400
Gly Arg Asp Asp Pro Ala Ser Ala Ala Lys Thr Gln Arg Leu Gln Asp
      405             410             415
Arg Phe Ala Glu Leu Ala Ala Phe Met Asn Ala Asp Pro Asp Glu Ile
      420             425             430
Gly Ala Ser Val Pro
      435

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<210> 32548

<400> 32548

Leu 1	Asn	Gly	His	Ile	Glu	Leu	Gly	Ala	Lys	Asp	Leu	Phe	Val	Gly	Asp
				5					10					15	
Met	Asp	Leu	Arg	Asn	Gly	Arg	Thr	Tyr	Phe	Ile	Arg	Val	Gly	Ile	His
			20					25					30		
Glu	Cys	Cys	Glu	Leu	Gly	Glu	Ser	Ile	Leu	Lys	Ser	Leu	Arg	Leu	Arg
		35					40					45			
Gly	Thr	Arg	Arg	Ile	Ile	Thr	Thr	Gln	Leu	Ile	Arg	Glu	Gly	Gly	His
	50					55					60				
Val	Ser	Val	Cys	Ala	Leu	Arg	Ser	Leu	Pro	Met	His	His	Arg	Ser	Gly
65					70				75						80
Ser	Ile	Val	Glu	Arg	Tyr	Asp	Ala	Val	Val	Gln	Arg	Gly	Lys	Leu	Leu
			85					90					95		
Ser	Gln	Ala	Leu	His	Ile	Asn	Gly	Ile	Arg	His	Gly	Arg	Arg	Thr	Arg
			100					105					110		
Asp	Arg	Cys	Asp	Arg	Ser	Gln	His	Arg	Val	Gly	Pro	Asp	Glu	Lys	Pro
		115					120				125				
Arg	Val	Asp	Gln	Met	Gly	Asp	Val	Cys	Val	Gln	Gly	Arg	Phe	Asn	Pro
	130					135					140				
Ser	Arg	Arg	Val	Gln	Gly	Ser	Leu	Glu	His	Pro	Asn	Arg	Leu	Leu	Ile
145					150					155					160
Gly	Leu	Gln	Gln	Val	Glu	Gln	Arg	Lys	Gln	Asp	Met	Phe	Phe	Leu	Leu
				165					170					175	
Gly	Gly	His	Gly	Val	Phe	Glu	Ala	Cys	Gln	Pro	Phe	Ser	Pro	Arg	Glu
			180					185					190		
Gly	Leu	Glu	Leu	Lys	Ser	Glu	Leu	Val	Leu	Glu	Lys	Gly	Pro	Gln	Ser
		195					200					205			
Phe	Glu	Ser	Gln	Ala	Ile	Gln	His	Leu	Arg	Asp	Gly	Leu	Arg	Val	Val
	210					215					220				
Leu	Glu	His	Ala	Val	Gln	Asn	His	Leu	Arg	Asp	Ala	Gly	Asp	Val	Arg
225					230					235					240
Asp	Lys	Glu	Pro	Ala	Val	Cys	Phe	Val	Pro	Val	Val	Glu	Thr	Gln	Phe
				245					250					255	
His	Thr	Arg	Ser	Asp	Gln	Ser	Pro	Asp	Lys	Val	Gly	Leu	Ile	Arg	Lys
			260					265					270		
Ala	Ser	Leu	Ser	Val	Ala	Asp	Asp	Glu	Pro	Arg	Phe	Asp	Asp	Ala	Tyr
		275					280					285			
Met	Pro	Ser	Leu	Gly	Ala	Leu	Leu	Ile	Gly	Glu	Ser	Thr	Asp	Asn	Leu
		290					295					300			
Phe	Gly	His	Gly	Leu	Gly	Ser	Cys	Ile	Ala	Gly	Ser	Phe	Gln	Arg	Leu
305					310					315					320
Gly	Arg	Ile	Leu	Leu	Val	Leu	Ala	Val	Val	Glu	Ala	Lys	Leu	Leu	Pro
				325						330				335	
Ala	Arg	Asp	Lys	Asn	Lys	Ala	Val	Gln	Gly	Leu	Phe	Ala	Val	Met	Asp
			340					345					350		
Cys	Phe	Gln	Gln	Leu	Asp	Arg									

<210> 32549
 <211> 63
 <212> PRT
 <213> A.fumigatus

<400> 32549
 Pro Ala Pro Trp Pro Leu Thr Cys Gly Arg Val Ser Ala Leu Ser Leu
 1 5 10 15
 Gln Ile Ser Leu His Ala Asn Glu Thr Ala Ala Ile Thr Gly Asp Glu
 20 25 30
 Leu Arg Thr Gly Pro Cys Glu Pro Ile Thr Phe Ile Phe Ala Arg Gly
 35 40 45
 Ser Thr Glu Pro Gly Leu Leu Val Cys Ile Leu Tyr Ala Ser Pro
 50 55 60

<210> 32550
 <211> 116
 <212> PRT
 <213> A.fumigatus

<400> 32550
 Thr Asp Gly Arg Lys Gly Ile Thr Thr Gly Pro Gly Val Cys Asn Ala
 1 5 10 15
 Leu Lys Leu Ser Arg Pro Gly Gln Val Ala Cys Gln Gly Val Gly Pro
 20 25 30
 Ala Tyr Ile Ala Asp Leu Ala Ser Asn Phe Leu Pro Gln Gly Thr Ser
 35 40 45
 Gln Val Ala Ile Asp Glu Ala Ala Gly Leu Phe Lys Leu Ala Ala Ser
 50 55 60
 Lys Cys Pro Asp Thr Lys Ile Val Ala Gly Gly Tyr Arg Tyr Phe Pro
 65 70 75 80
 Leu Leu Phe Ile Thr Ala Ile Glu Thr Ala Lys Lys Lys Asn Cys Val
 85 90 95
 Val Arg Glu Gln Leu Ser Cys Thr Val Pro Ser Glu Ile Ser Pro Ala
 100 105 110
 Thr Ser Arg Ile
 115

<210> 32551
 <211> 92
 <212> PRT
 <213> A.fumigatus

<400> 32551
 Lys Lys Lys Leu Cys Ser Gln Gly Ala Ala Val Met His Gly Ala Ile
 1 5 10 15
 Arg Asn Leu Pro Ser Asn Val Gln Asn Met Ile Lys Gly Val Val Leu
 20 25 30
 Phe Gly Asp Thr Arg Asn Lys Gln Asp Gly Gly Arg Ile Pro Asn Phe
 35 40 45
 Pro Thr Asp Arg Thr Lys Ile Tyr Cys Ala Phe Gly Asp Leu Val Cys
 50 55 60
 Asp Gly Thr Leu Ile Ile Thr Pro Ala His Leu Ser Tyr Gly Asp Asp
 65 70 75 80

12805

Val Pro Ser Ala Thr Ser Phe Leu Leu Ser Lys Val
85 90

<210> 32552
<211> 230
<212> PRT
<213> A.fumigatus

<400> 32552
Gly Gly Ala Met Leu Leu Thr Arg Val Gly Ser Met Ala Val Trp Arg
1 5 10 15
Glu Ile Arg Cys Arg Val Thr Ser Thr Leu Arg His Gly Asp Thr Gly
20 25 30
Thr Ile Thr Thr His Leu Ile Trp Ser Thr Arg Val His Phe Leu Pro
35 40 45
Leu Phe Leu Gly Ile Arg Ile Gln Leu Thr Arg Ala Ala Phe Asn Phe
50 55 60
Ser His Met Ile Thr Glu Leu Ser Phe Gly Pro His Tyr Pro Thr Leu
65 70 75 80
Leu Asn Pro Leu Asp Lys Thr Ile Ala Thr Thr Glu Asp His Tyr Tyr
85 90 95
Lys Tyr Gln Tyr Phe Leu Ser Ile Val Pro Thr Ile Tyr Ser Lys Gly
100 105 110
Asn Leu Ala Leu Asp Thr Tyr Ala Asn Ala Pro Pro Ser Asn Arg Arg
115 120 125
Gly Lys Asn Leu Val Phe Thr Asn Gln Tyr Ala Val Thr Ser Gln Ser
130 135 140
Ser Val Ile Pro Glu Ser Pro Tyr Phe Ile Pro Gly Leu Phe Phe Lys
145 150 155 160
Tyr Asn Ile Glu Pro Ile Leu Leu Leu Ile Ser Glu Glu Arg Thr Ser
165 170 175
Phe Leu Ser Leu Leu Val Arg Leu Val Asn Thr Val Ser Gly Val Met
180 185 190
Val Thr Gly Gly Trp Leu Tyr Gln Met Ser Gly Trp Leu Gly Glu Leu
195 200 205
Leu Gly Arg Arg Arg Arg Arg Gly Lys Ser Glu Gly Val Leu Thr Gly
210 215 220
Arg His Glu Ala Asp Asp
225 230

<210> 32553
<211> 379
<212> PRT
<213> A.fumigatus

<400> 32553
Gly His Ser Thr Arg Phe Val Ser Ser Gln His Glu Pro Leu Thr Cys
1 5 10 15
Ser Ser Ala Glu Leu Ala Arg Arg Asp Val Ser Ala Ile Val Leu Glu
20 25 30
Ser Gly Arg Ser Gln Val Met Val Gln Met Leu Thr Ile Val Val Val
35 40 45
Ile Leu Ala Lys Thr Lys Pro Phe Tyr Thr Ala Pro Ser Pro Arg Gly
50 55 60
Gly Gln Trp Thr Val Leu Val Leu Leu Val Cys Thr Phe Leu Ser Ile
65 70 75 80

12806

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Ser Glu Phe Arg Thr Trp Leu Lys Gly Thr Glu Lys Gln His Phe Ser
      85                      90                      95
Val Glu Lys Gly Ile Ser His Asp Leu Gln Leu Asn Leu Asp Ile Val
      100                    105                    110
Val His Met Ser Cys Asp Met Leu Asp Val Asn Ile Gln Asp Ala Ser
      115                    120                    125
Gly Asp Arg Ile Leu Ala Gly Gln Leu Leu Lys Arg Glu Pro Thr Ser
      130                    135                    140
Trp Gln Leu Trp Met Asp Lys Arg Asn Tyr Glu Thr Tyr Gly Gly Ala
145                      150                      155                      160
His Glu Tyr Gln Thr Leu Ser Gln Glu His Ala Asp Arg Leu Ser Glu
      165                    170                    175
Gln Glu Ala Asp Ala His Val His His Val Leu Gly Glu Val Arg Arg
      180                    185                    190
Asn Pro Arg Lys Lys Phe Ala Lys Gly Pro Lys Leu Arg Arg Gly Asp
      195                    200                    205
Ala Val Asp Ser Cys Arg Ile Tyr Gly Ser Leu Glu Gly Asn Lys Val
      210                    215                    220
Gln Gly Asp Phe His Ile Thr Ala Arg Gly His Gly Tyr His Asn Asn
225                      230                      235                      240
Ala Pro His Leu Glu His Lys Ser Thr Phe Ser Pro Phe Val Pro Gly
      245                    250                    255
Tyr Ser Asn Ser Thr Asp Ala Arg Ser Leu Gln Leu Leu Ala His Asp
      260                    265                    270
His Arg Ala Leu Leu Arg Pro Ser Leu Ser Asp Pro Pro Gln Pro Pro
      275                    280                    285
Arg Gln Asn His Arg His Asn Arg Arg Pro Leu Leu Gln Val Pro Val
      290                    295                    300
Phe Pro Leu His Cys Ala Asn His Leu Leu Gln Gly Gln Pro Arg Thr
305                      310                      315                      320
Arg His Leu Arg Gln Arg Ser Ala Leu Lys Pro Pro Trp Gln Lys Pro
      325                    330                    335
Arg Leu His Gln Pro Val Arg Gly His Gln Pro Val Gln Arg Asp Ser
      340                    345                    350
Arg Lys Pro Leu Leu His Pro Arg Pro Leu Leu Gln Val Gln His Arg
      355                    360                    365
Ala His Pro Ala Ala Asp Gln Arg Gly Ala His
      370                    375

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<210> 32554

<211> 161

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (1), (3), (7), (12)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32554

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Xaa Pro Xaa Met Asn Ala Xaa Cys Asp Asp Pro Xaa Leu Val Val Lys
1              5              10              15
Thr Thr Ala Pro Asp Thr Ser Asn Pro Ala Ala Asn Ala Phe Asp Asp
      20              25              30
Val Asp Leu Val Gly Gly Ser Phe Ala Asp His Ala Arg Arg Arg Ser
      35              40              45

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12807

Ile Ala Gln Gln His Ser Ser Phe Ser Thr Val Leu Ser Ser Gly Leu
50 55 60
Ala Ala Phe Thr Gly Ser Tyr Gly Asn Arg Ser Arg Glu Ser Ser Thr
65 70 75 80
Gln Gln His Pro Pro Ala Ala Arg Gly Ser Leu Glu Leu Leu Ser Glu
85 90 95
Glu Asn Phe Asp Asp Glu Phe Asp Glu Ala Glu Phe Ala Arg Ala Gln
100 105 110
Ala Glu Glu Glu Ala Arg Lys Arg Val Glu Trp Val Arg Glu Ile Lys
115 120 125
Gly Lys Leu Lys Asp Trp Lys Gly Trp Arg Leu Asp Leu Val Asp Ser
130 135 140
Arg Ala Gly Ala Glu Gly Ala Gly Val Gly Met Gly Glu Ile Phe Glu
145 150 155 160
Ile

<210> 32555

<211> 124

<212> PRT

<213> A.fumigatus

<400> 32555

Val Leu Leu Trp Phe Asp Ile Thr Asp Arg Phe Ser Ser Cys Thr Ala
1 5 10 15
Ile Asn Arg Ser Pro Leu Met Leu Ala Gln Gly Thr Asp Val Thr Thr
20 25 30
Ala Glu Ala Ala Val Ile Ala Lys Tyr Asn Asn Leu Ile Ala Thr Tyr
35 40 45
Leu Ala Gln Phe Lys Ser Lys Asn Ser Gly Val Thr Ala Thr Val Val
50 55 60
Asp Thr Gln Ala Pro Phe Asn Gln Ala Leu Asp Asn Pro Thr Ala Tyr
65 70 75 80
Gly Ala Pro Asp Ala Thr Cys Tyr Asn Ser Asp Gly Thr Ser Cys Leu
85 90 95
Trp Phe Asn Asp Tyr His Pro Gly Ile Ala Ile Gln Asp Leu Thr Ala
100 105 110
Gln Ala Val Ala Ser Ala Leu Lys Glu Leu Phe Phe
115 120

<210> 32556

<211> 254

<212> PRT

<213> A.fumigatus

<400> 32556

Ser Thr Ala Leu Arg Ser Met Arg Pro Trp Asn Lys His Cys Thr Arg
1 5 10 15
His Cys Ala Lys Tyr Asp Asn Asn Asp Asn Asn His Asn Asn Glu His
20 25 30
Arg Tyr Thr His Arg Ala Lys Val Leu His His Phe Val Ser Tyr Pro
35 40 45
Lys Leu Pro Thr Glu Arg Ser Trp Ala His Pro Ala Ser Gly Asp Ser
50 55 60
Tyr Ser Gln Thr Gly Phe Asp Ile Ser Ser Thr Lys Pro Ser Ala Ser
65 70 75 80

12808

```

Asn Pro Leu Gly Asn Pro Thr Leu Pro Gly Trp Thr Thr Ser Gly Gly
      85                      90                      95
Leu Asn Trp Val Gly Phe Leu Val Ser Lys Tyr Asn Thr Ser Leu Thr
      100                      105                      110
Leu Ser Tyr Asn Phe Ala Tyr Gly Gly Ala Thr Thr Asn Ala Ser Leu
      115                      120                      125
Val Ala Pro Tyr Thr Ser Thr Val Leu Ser Phe Ile Asp Gln Val Thr
      130                      135                      140
Glu Phe Thr Asn Ser Ile Ala Ser Lys Pro Ser Tyr Ala Pro Trp Thr
      145                      150                      155                      160
Ser Gly Asn Thr Leu Val Gly Val Trp Met Gly Val Asn Asp Val Gly
      165                      170                      175
Asn Ser Tyr Trp Leu Ser Asn Ile Asp Glu Leu Leu Leu Lys Ile Met
      180                      185                      190
Asp Ser Tyr Phe Gly Gln Leu Gln Ile Leu Tyr Asp Ala Gly Val Arg
      195                      200                      205
Asn Tyr Val Leu Leu Gly Val Pro Arg Lys Ser Cys Phe Gly Ser Ile
      210                      215                      220
Ser Leu Thr Asp Ser His His Val Gln Gln Ser Thr Ala Pro His Leu
      225                      230                      235                      240
Cys Leu Pro Lys Ala Pro Met Ser Leu Pro Arg Lys Arg Gln
      245                      250

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<210> 32557
 <211> 220
 <212> PRT
 <213> A.fumigatus

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<400> 32557
Lys Glu Phe Ala Gly Gly Ser Glu Glu Met Gly Glu Arg Gln Arg Thr
1      5      10      15
Asn Ala Met Pro Gln Ala Trp Pro Arg Asn Met Val Ala Ser
      20      25      30
Gly Asn Ser Ile Ser Val Ile His Ala Asn Lys Gln Pro Ser Leu Ser
      35      40      45
Leu Trp Arg Tyr Phe Gly Tyr Asp Gln Asp Asn Pro Asp Glu Ser His
      50      55      60
Pro Leu Asn Lys His Met Lys Thr Val Ser Trp Met Gln Leu Leu Asp
      65      70      75      80
Pro His Ala Asp Thr Ile Tyr Ala Asn Glu Pro Glu Val Ile Pro Asp
      85      90      95
Glu Thr Leu Ala Thr Phe Lys Phe Asn Arg Arg Ser Ala Tyr Tyr Lys
      100      105      110
Lys Arg Ser Arg Trp Glu Arg Val Arg Arg Val Val Asp Glu Ala Arg
      115      120      125
Ala Gly Asn Phe Asp Gly Leu Ile Val Ala Thr Leu Met Glu Pro Ala
      130      135      140
Ser Val Leu Lys His Thr Val Pro Leu Leu Ala Gly Ser Ala Pro Val
      145      150      155      160
Val Val Tyr Ser Pro Thr Val Glu Pro Leu Thr Glu Leu Ala Asp Leu
      165      170      175
Tyr Ser Thr Pro Arg Arg Thr Ala Tyr Ile Thr Arg Lys Arg Glu Ile
      180      185      190
Ile Ala Gln His Ser Leu Gln Gln Ser Leu Gln Gly Ala Glu Pro Leu
      195      200      205
Ile Thr Asn Asn Asn Pro His Glu Pro Asp Phe Ser

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12809

210

215

220

<210> 32558
 <211> 94
 <212> PRT
 <213> A.fumigatus

<400> 32558
 Leu Asp Lys Asp Phe Ala Leu Asp Pro Ser Leu Leu Leu Ala Pro Thr
 1 5 10 15
 Ile Glu Thr Ser Arg Val Arg Ala Trp Gln Val Leu Pro Gly Arg Thr
 20 25 30
 His Pro Leu Met Ser Gly Arg Gly Gly Ala Glu Gly Tyr Ile Phe His
 35 40 45
 Ala Ile Arg Val Phe Pro Ser His Gln Asn Ile Gln Ala Ala Gly Asn
 50 55 60
 Pro Ser Arg Lys Lys Arg Lys Val Ala Ala Gln Gln Glu Ser Ala Thr
 65 70 75 80
 Pro Ala Glu Ser Gly Ser Gly Val Asp Val Glu Met Gln Ser
 85 90

<210> 32559
 <211> 156
 <212> PRT
 <213> A.fumigatus

<400> 32559
 Gly Pro Gly Cys Ser Arg Asn Arg Tyr Glu Arg Leu Tyr Phe Phe Thr
 1 5 10 15
 Asn Leu Ser Val Lys Gln Leu Met Asn Leu Ala Pro His Cys Ser Gly
 20 25 30
 Leu Val Ala Asn Ile Ser Ser Arg Arg Leu Pro Ser Gly Asn Phe Pro
 35 40 45
 Val Leu Pro Leu Arg Thr Arg Thr Arg Gly Pro Ala Tyr Thr Leu Pro
 50 55 60
 Pro Leu Pro Ala Gly Val Ser Asp Ile Asp Val Pro Pro Asp Ser Glu
 65 70 75 80
 Ser Tyr Asp Cys Val Asp Glu Ile Leu Ser Leu Phe Arg Ala Asn Val
 85 90 95
 Leu Phe Arg Asn Phe Glu Ile Asn Gly Pro Ala Asp Arg Met Leu Ile
 100 105 110
 Tyr Gly Thr Leu Phe Ile Ser Glu Cys Leu Gly Lys Val Lys Pro Gly
 115 120 125
 Met Thr Ser Arg Glu Ala Glu Lys Val Leu Leu Gly Gln Glu Cys Val
 130 135 140
 Arg Gly Ser Ala Asn Gly His Thr Ser Gly Phe Asp
 145 150 155

<210> 32560
 <211> 98
 <212> PRT
 <213> A.fumigatus

<400> 32560
 Asp Arg Asn Ala Ser Gly Asp Leu Leu Met Gly Ile Arg Gln Ala Leu
 1 5 10 15

12810

Ile Asn Val Ser Leu Asp His Phe Ala Ile Pro Gly Asp Val Ala Phe
 20 25 30
 Pro Leu Asn Gln Ala Phe Glu Pro Pro Arg Asp Arg Gln Asp Ala Glu
 35 40 45
 Thr Leu Arg Gln Tyr Val Pro Ile Ser Phe Lys Ser Leu Arg Ala Leu
 50 55 60
 Ser Leu Met Arg Phe Asp Ser Asp Thr Ser Pro Lys Tyr Gly Arg Arg
 65 70 75 80
 Ser Leu Phe Asp Tyr Met Leu Gly Tyr Thr Leu Ala Val Lys Gly Leu
 85 90 95
 Pro Arg

<210> 32561
 <211> 132
 <212> PRT
 <213> A.fumigatus

<400> 32561
 Leu Gly Val Phe Glu Pro Ser Gln Ala His Val Gln Leu Gly Thr Ile
 1 5 10 15
 Val Leu Asp Arg Asp Arg His Ser Phe Thr Asp Leu Pro Pro Glu Leu
 20 25 30
 Ser Phe Ile Phe Leu Phe Arg Tyr Val Thr Ala Thr Met Leu Leu Asp
 35 40 45
 Ile Ser Ala Phe Ala Leu Ser Thr Thr Gly Val Leu Cys Met Leu Leu
 50 55 60
 Cys Leu Val Val Lys Leu Phe Glu Thr Ser Pro Val Pro Lys Asn Ile
 65 70 75 80
 Pro Trp Val Leu Ser Lys Lys Gly Phe Phe Gly Arg Ala Ala Glu Arg
 85 90 95
 Phe Leu Gly Val Asn Pro Ile Gly Phe Ile Gln Glu Gly Tyr Gln Gln
 100 105 110
 Val Gly Leu Cys His Ala Val Leu Trp His Ser Met Tyr Thr Gln Val
 115 120 125
 Gly Met Ile Gly
 130

<210> 32562
 <211> 300
 <212> PRT
 <213> A.fumigatus

<400> 32562
 Met Ala Pro Pro Met Ala Lys Lys Arg Lys Val Leu Asp Ser Leu Lys
 1 5 10 15
 Asn Lys Ala Gly Arg Pro Lys Lys Lys Phe Arg Lys Gln Leu Glu Tyr
 20 25 30
 His Ser Ser Ser Asp Glu Ala Glu Asp Glu Gln Pro Thr Asp Phe Gln
 35 40 45
 Ala Val Asn Leu Ala Asp Ser Asp Ala Glu Glu Glu Arg Lys Pro Val
 50 55 60
 Glu Arg Lys Pro Gln Lys Pro Ala Ser Ser Glu Thr Arg Ser Leu Gly
 65 70 75 80
 Ala Gln Lys Lys Arg Lys Ala Glu Asp Ser Asp Asp Ser Ser Ala Ala
 85 90 95

12811

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Ser Glu Asn Glu Ser Asp Ala Asp Asp Asn Asn Gly Ser Asp Ser Pro
      100                      105                      110
Asp Ser Ser Asp Met Glu Asp Asp Glu Tyr Gly Asp Ser Asp Thr Ser
      115                      120                      125
Leu Pro Thr Ser Thr Asn Gly Arg Arg Arg Pro Val Ala Lys Arg Asn
      130                      135                      140
Asp Pro Thr Ala Phe Ser Thr Ser Ile Ser Lys Ile Leu Ser Thr Lys
145                      150                      155                      160
Leu Pro Ser Ser Ala Arg Ala Asp Pro Val Leu Ser Arg Ser Lys Ser
      165                      170                      175
Ala Ala Gln Thr Thr Ser Glu Leu Ala Asp Glu Lys Leu Asp Lys Gln
      180                      185                      190
Ala Arg Ala Lys Leu Arg Ala Glu Lys Lys Glu Glu Leu Asp Arg Gly
      195                      200                      205
Arg Val Arg Asp Val Met Gly Ile Glu Arg Gly Leu Thr Gly Val Val
      210                      215                      220
Ala Glu Glu Glu Lys Arg Leu Arg Lys Ile Ala Gln Arg Gly Val Val
225                      230                      235                      240
Lys Leu Phe Asn Ala Val Arg Ala Ala Gln Val Arg Gly Glu Glu Ala
      245                      250                      255
Ala Arg Glu Glu Arg Lys Lys Gly Thr Ile Gly Ile Gly Glu Arg Glu
      260                      265                      270
Lys Ala Val Asn Glu Val Ser Lys Gln Gly Phe Leu Glu Leu Ile Ser
      275                      280                      285
Gly Lys Lys Gly Lys Pro Leu Asn Ile Glu Glu Ala
      290                      295                      300

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<210> 32563

<211> 85

<212> PRT

<213> A.fumigatus

<400> 32563

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Phe Phe Leu Ile Gly Ala Cys Gly Gly Ser Cys Ala Cys Ser Thr Cys
1           5           10           15
His Val Ile Val Glu Asp Pro Glu Val Phe Asp Lys Met Glu Glu Pro
      20           25           30
Ser Asp Asp Glu Asn Asp Met Leu Asp Leu Ala Phe Gly Leu Thr Glu
      35           40           45
Thr Ser Arg Leu Gly Cys Gln Val Val Met Asn Lys Asp Leu Asp Gly
      50           55           60
Leu Val Val Arg Leu Pro Ser Met Thr Arg Asn Val Gln Ala Ser Asp
65           70           75           80
Phe Ala Gln Lys Lys
      85

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<210> 32564

<211> 100

<212> PRT

<213> A.fumigatus

<400> 32564

```

Glu Arg Val Leu Leu Ser Leu Leu Asp Val Gln Arg Phe Ser Leu Leu
1           5           10           15
Ser Ala Asp Gln Leu Lys Lys Thr Leu Phe Ala Asp Phe Val Asp Gly
      20           25           30

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Phe Phe Gly Val Val Ser Ser Ser Gly Val Thr Glu Ala Ile Val Asp
 195 200 205
 Tyr Trp Gln Tyr Tyr Glu Pro Ile Arg Gln Phe Ala Pro Ser Asp Cys
 210 215 220
 Ile Trp Ser Ile Glu Thr Phe Met Asp Ile Val Asp Thr Ile Leu Ile
 225 230 235 240
 Glu His Ala Lys Asn Glu Thr Leu Lys Ser His Leu Lys Ala Val Phe
 245 250 255
 Gly Ala Thr Ser Ser Asp Val Asp Asp Glu Phe Phe Ala Ala Leu
 260 265 270
 Ser Ser Thr Leu Gly Ala Phe Gln Gly Arg Asn Trp Asp Pro Ala Val
 275 280 285
 Gly Asp Gly Thr Phe Gln Arg Tyr Cys Lys Asn Leu Thr Ser Pro Ser
 290 295 300
 Leu Leu Tyr Gln Gln Asn Thr Met Lys Ala Trp Thr Glu Glu Val
 305 310 315 320
 Ile Ser Ala Thr Lys Tyr Asp Ala Thr Asn Ser Ser Leu Val Thr Gly
 325 330 335
 Met Leu Asn Tyr Ala Gly Tyr Met Asn Ala Thr Met Phe Ser His Leu
 340 345 350
 Asp Glu Val Arg Gly Thr Ser Ser His Lys Ser Pro Gln Ser Leu Gln
 355 360 365
 Lys Ser Ser Gly Val Ser Trp Gly Tyr Gln Val Cys Thr Glu Trp Gly
 370 375 380
 Tyr Phe Met Pro Gly Ser Ser Val Pro Lys Asp Arg Leu Pro Leu Ile
 385 390 395 400
 Ser Arg Leu Ile Thr Leu Ala Gly Glu Ser Arg Phe Cys Lys Glu Asp
 405 410 415
 Phe Asn Ile Thr Thr Pro Pro Asp Thr Asp Arg Ile Asn Lys His Gly
 420 425 430
 Gly Phe Asn Phe Ser Tyr Pro Arg Ala Ala Ile Ile Asp Gly Leu Ala
 435 440 445
 Asp Pro Trp Arg Asp Ala Thr Pro His Ala Asp Gly Thr Arg Pro Arg
 450 455 460
 Gln Ser Thr Asp Glu Glu Pro Phe Ile Leu Val Asp Val Pro Ala Glu
 465 470 475 480
 Asp Val Trp Asp Gly Ile Arg Gly Ala Val His His Trp Asp Gln Asn
 485 490 495
 Gly Leu Ser Glu Gln Asp Val Gln Gln Gly Lys Thr Ala Pro Lys Ala
 500 505 510
 Ile Val Ala Leu Gln Gln Glu Ile Ile Arg Phe Val Gly Val Trp Leu
 515 520 525
 Lys Gln Trp Arg Lys His Glu Asp Val Ser Asp Pro Thr Ala Asn Thr
 530 535 540
 Ala Val Arg Asn Arg Gln Leu Val Leu
 545 550

<210> 32567

<211> 68

<212> PRT

<213> A.fumigatus

<400> 32567

Ala Thr Ile Arg Ala Pro Ile His Thr Val Arg Phe Ser Pro Asn Gly
 1 5 10 15
 Lys Tyr Leu Ala Ser Gly Ala Asp Asp Lys Ile Val Cys Ile Tyr Thr

[illegible]

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<210> 32568
<211> 171
<212> PRT
<213> A.fumigatus
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<210> 32569
<211> 283
<212> PRT
<213> A.fumigatus
```

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<400> 32569
Asp Lys Gln Ala Asp Ser Phe Gln Leu Ser Ile Ser Tyr Gly Val Glu
 1                    5                    10                    15
Asp Ala Ala Tyr Ala Ile Ser Gln Leu Ala Gln Thr Thr Met Arg Ser
                20                    25                    30
Glu Ile Gly Gln Leu Arg Leu Asp His Val Trp Lys Glu Arg Ala Thr
                35                    40                    45
Leu Asn Thr Asn Ile Thr Gln Ala Ile Asn Glu Ala Ala Gln Asp Trp
                50                    55                    60
Gly Val Val Cys Leu Arg Tyr Glu Ile Arg Asp Ile His Ala Pro Glu
65                    70                    75                    80
Gly Val Val Ala Ala Met His Arg Gln Val Thr Ala Glu Arg Ser Lys
                85                    90                    95
Arg Ala Glu Ile Leu Glu Ser Glu Gly Gln Arg Gln Ser Ala Ile Asn

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12815

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      100      105      110
Ile Ala Glu Gly Arg Lys Gln Ser Val Ile Leu Ala Ser Glu Ala Leu
      115      120      125
Arg Ser Glu Arg Ile Asn Arg Ala Ser Gly Glu Ala Glu Ala Ile Met
      130      135      140
Leu Lys Ala Gln Ala Thr Ala Arg Gly Ile Glu Val Val Ala Lys Ala
145      150      155      160
Ile Ala Glu Gly Ser Glu Asn Ala His Ser Ala Val Ser Leu Ser Val
      165      170      175
Ala Glu Lys Tyr Val Glu Ala Phe Ser Asn Leu Ala Arg Glu Gly Thr
      180      185      190
Ala Val Val Val Pro Gly Asn Val Gly Asp Leu Gly Gly Met Ile Ala
      195      200      205
Asn Ala Met Ala Val Tyr Gly Lys Val Asn Glu Ser Gln Ala Arg Ser
210      215      220
Ile Ala Ala Lys Ala Leu Gly Val Gln Glu Pro Thr Gln Ile Glu His
225      230      235      240
Ser Gln Gln Gln Lys Ala Glu Lys Asn Thr Ser Glu Pro Glu Gly Gln
      245      250      255
Ala Ala Ser Glu Thr Asp Lys Ala Gly Ser Val Ala Asp Ser Val Leu
      260      265      270
Glu Gly Phe Asp Gln Ala Ser Gln Gln Arg Arg
      275      280

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<210> 32570
 <211> 62
 <212> PRT
 <213> A.fumigatus

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<400> 32570
Ala Ile Leu Leu Trp Val Gln Met Asp Thr Phe Glu Tyr Gly Gln Arg
1      5      10      15
Lys Arg Ser Ile Thr Arg Gly Asn Pro Glu Tyr Ala Asn Lys Pro Lys
      20      25      30
Gln Leu Ala Ser Met Ser Asn His Ser Gly Thr Asp Ser Tyr Gly Ser
      35      40      45
Ile Leu Ala Gln Trp Gln Ile Pro Gly Val Gly Cys Gly Arg
      50      55      60

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<210> 32571
 <211> 209
 <212> PRT
 <213> A.fumigatus

```

<400> 32571
Arg His Asn Thr Gly Ala Phe Leu Phe Leu Leu Ile Leu Ala Ala Tyr
1      5      10      15
Ile Gly Leu Leu Pro His Ser Thr Ser Ser Ser Ile Pro Ser Asn Leu
      20      25      30
Gln Pro Asn Asp Lys Phe Leu His Val Val Thr Phe Phe Phe Leu Ser
      35      40      45
Leu Val Phe Tyr Trp Ile Pro Asp Thr Thr Arg Arg Arg Ser Leu Gln
      50      55      60
Leu Thr Leu Leu Ile Cys Thr Leu Ala Leu Gly Ile Gly Ser Glu Ile
      65      70      75      80
Val Gln Ala Ile Leu Pro Asn Asp Arg Pro Phe Asp Pro Phe Asp Ile

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<210> 32572
<211> 392
<212> PRT
<213> A.fumigatus
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Thr	Trp	Arg	Asn	Glu	Pro	Pro	Arg	Pro	Pro	Gln	Asn	Arg	Gly	Phe	Gly
1				5						10				15	
Ala	Ser	Met	Ser	Leu	Gly	His	His	His	Thr	Trp	Gln	Pro	Pro	Gly	His
			20					25					30		
Leu	Arg	His	Ala	Asp	Asp	Pro	Asn	Asp	Leu	Arg	Ser	Val	Asn	Gly	Tyr
		35					40					45			
Ser	Lys	Ser	Phe	Pro	Gly	Leu	Lys	Thr	Leu	Gln	Met	Arg	Ser	Ser	Ala
	50					55					60				
Gly	Ala	Asp	Gly	Gly	His	Ala	Gly	Thr	Leu	Ile	Ser	Glu	Ser	Asp	Thr
65					70					75				80	
Ala	Ala	Asp	Glu	Asp	Pro	Arg	Ile	Ala	Thr	Phe	Arg	Asp	Leu	Tyr	Lys
				85					90					95	
Arg	Ser	Glu	Ala	Lys	Ile	Asn	Ala	Leu	Phe	Ala	Lys	Lys	His	Pro	Ala
			100					105					110		
Glu	Glu	Asn	Leu	Gly	Ala	Ala	Asp	Ala	Glu	Thr	Glu	Glu	Pro	Glu	Ser
		115					120					125			
Gln	Ile	Asn	Arg	Ala	Cys	Glu	Pro	Val	Ser	Leu	Pro	Val	Ala	Pro	Lys
	130					135					140				
Lys	Pro	Ala	Arg	Lys	Leu	Asp	Asp	Asp	Asp	Tyr	Asp	Glu	Tyr	Asp	Asp
145					150					155				160	
Asp	Glu	Glu	Glu	Glu	Thr	Glu	Ala	Pro	Thr	Pro	Pro	Lys	Ser	Lys	Thr
				165					170					175	
Ser	Ala	Leu	Ser	His	Glu	Pro	Ser	Gly	Val	Gln	Ser	Pro	Lys	His	Arg
			180					185					190		
Pro	Ser	Ile	Ala	Ala	Ser	Val	Ala	Ala	Asp	Ser	Met	Lys	Glu	Val	Lys
		195					200					205			
Lys	Glu	Thr	Leu	Glu	Asp	Ile	Arg	Lys	Lys	Leu	Glu	Glu	Asp	Lys	Lys
	210					215					220				
Ala	Thr	Glu	Glu	Ala	Ala	Arg	Arg	Ser	Phe	His	Thr	Met	Phe	His	Thr
225					230					235					240
Leu	Glu	Asn	Asp	Arg	Asp	Ala	Met	Leu	Asp	Gln	Gln	Arg	Leu	Glu	Glu
			245						250					255	

Ser Glu Arg Gln Val Glu Ala Glu Met Ser Ser Gln Ala Asn Ala Gly
 260 265 270
 Ser Thr Asn Ala Asn Ala Ser Thr Asp Gly Tyr Gly Ser Leu Ser Asn
 275 280 285
 Ala Asn Leu Gly Ala Ser Ser Leu Thr Leu Lys Asn Leu Ile Ala Arg
 290 295 300
 Ile Asp Met Lys Arg Asn Met Val Gln Ala Ser Asp Ala Glu Leu Arg
 305 310 315 320
 Ser Leu Met Ser Glu Val Arg Lys Asn Arg Ser Lys Trp Ala Ser Glu
 325 330 335
 Asp Lys Ile Gly Gln Glu Glu Leu Tyr Glu Ala Ala Glu Lys Val Leu
 340 345 350
 Ser Glu Leu Lys Ala Met Thr Glu His Ser Ser Ala Phe Leu Thr Arg
 355 360 365
 Val Asn Lys Arg Asp Ala Pro Asp Tyr Tyr Thr Ser Lys Glu Pro Pro
 370 375 380
 Ser Pro Leu His Ala Phe Leu Gln
 385 390

<210> 32573

<211> 243

<212> PRT

<213> A.fumigatus

<400> 32573

Leu Glu Lys Val Phe Lys Lys His Thr Met Ala Arg Thr Ile Gly Lys
 1 5 10 15
 Tyr Gln Leu Leu Ile Leu Asn Ser His Ala Ser His Glu Ser Ala Glu
 20 25 30
 Phe Asp Leu Phe Tyr Lys Asn His Gln Ile Ile Pro Leu Tyr Ile Pro
 35 40 45
 Ser His Ser Ser Asp Lys Leu Gln Pro Leu Asn Ile Ser Cys Phe Ala
 50 55 60
 Pro Leu Lys Glu Ala Tyr Gly Ile Glu Val Ile Arg Ser Ile Gln Asn
 65 70 75 80
 Ser Ile His His Ile Asn Lys Glu Asn Phe Leu Thr Leu Tyr Arg Glu
 85 90 95
 Ala Gln Lys Ala Leu Ser Ser Lys Asn Ile His Ser Gly Phe Lys Ala
 100 105 110
 Ser Gly Leu Val Pro Leu Asn Cys Gln Gln Val Leu Asp Lys Leu Thr
 115 120 125
 Ile Lys His Ile Thr Pro Pro Ser Thr Ala His Arg Pro Ser Asp Gln
 130 135 140
 Glu Trp Thr Ala Lys Thr Pro Tyr Thr Thr Ala Lys Val Gln Lys Gln
 145 150 155 160
 Met His Leu Ile Lys Gln Leu Ile Asn His Asn Ser Glu Ser Pro Leu
 165 170 175
 Asn Lys Ala Ile Arg Gln Leu Ala Lys Ser Ala Lys Tyr Thr Ile His
 180 185 190
 Lys Val Leu Leu Leu Asp Gln Glu Ile Lys Gly Leu His Ala Ala Asn
 195 200 205
 Lys Lys Gln Lys Arg Arg Arg Thr Thr Pro Arg Ser Phe Met Ala Thr
 210 215 220
 Gly Gly Val Leu Thr Gly Thr Lys Gly Pro Ser Thr Lys Pro Lys Lys
 225 230 235 240
 Leu Tyr Arg

<210> 32574
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 32574
 Glu Asn Pro Leu Phe Met Ser Asp Glu Phe Ala Tyr Leu Leu His Phe
 1 5 10 15
 Gly Asp Gly Arg Lys Ile Ser Glu Ile Lys Gly Phe Phe Asp Thr Leu
 20 25 30
 Asn Val His Asn His Leu Gly Arg Glu Lys Ser Tyr Ser Gly Gly Ala
 35 40 45
 Tyr Trp Ile Asp Leu Leu Ala Trp Thr Leu Glu Val Ser Leu Ser Ile
 50 55 60
 Phe Ile
 65

<210> 32575
 <211> 88
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (83), (84), (85)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32575
 Leu Phe Ile Leu Met Ile Val Leu Ile Gln Thr Pro Arg Val Arg Gln
 1 5 10 15
 Leu Asp Val Pro Ala Val Leu Ser Asp Glu Gly Leu Pro Ala Met Ser
 20 25 30
 Ser Pro Glu Lys His Gln Gly Pro Asn Leu Leu Ala Leu Glu Asp Asp
 35 40 45
 Ser Asp Glu Asp Ile Val Pro Tyr Ser Arg Asn His Ala Thr Lys Phe
 50 55 60
 Trp Lys Ser Pro Asn Gly Val Phe Ser Lys Pro Leu Glu Gly Ser Ile
 65 70 75 80
 Cys Ser Xaa Xaa Xaa Thr Asn Arg
 85

<210> 32576
 <211> 71
 <212> PRT
 <213> A.fumigatus

<400> 32576
 Glu Ile Phe Val Phe Leu Leu Phe Tyr Glu Ala Gly Lys Cys Arg Cys
 1 5 10 15
 Asn Leu Tyr Asp Lys Ala Phe Asn Ile Ala Phe Gly His Lys Tyr Leu
 20 25 30
 Leu Lys Ile Ser Val Arg His Asn Asp Val Lys Gly His Gly Asp Gln
 35 40 45
 His Arg Leu Ser Gly Asn Ile Arg Ala Asn Gln Val Glu Gly Leu Cys

12819

50 55 60
Ser Trp Phe Cys Cys Val Ser
65 70

<210> 32577
<211> 452
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (291)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32577
Asp Arg Arg Val Ser Arg Arg Arg Gly His Leu Leu Phe Leu Lys Leu
1 5 10 15
Phe Leu Phe Leu Leu Leu Phe Phe Phe Leu Leu Phe Phe Phe Leu
20 25 30
Leu Leu Phe Phe Leu Leu Leu Phe Phe Leu Leu Phe Ala Arg Arg Ser
35 40 45
Phe Thr Ser Ile Ile Ile Thr Arg Arg Ile Leu His His Leu Ile Leu
50 55 60
Ile Gly Leu Leu Leu Arg Arg Ala Ser Phe Leu Leu Leu Ala Pro Ser
65 70 75 80
Leu Phe Gln Asn Ser Ser Leu Leu Leu Pro Gln Leu Pro Leu Arg Leu
85 90 95
Asp Lys Arg Thr Gln Arg Cys Arg Leu Pro Ile His Ile Phe Gln Glu
100 105 110
Arg Leu Asp Leu Gly Ala Ile Ala Arg Arg Ile Arg Asp Ile Gln Pro
115 120 125
Leu Leu Leu Asp Pro Ala Arg Val Gly Leu Asp Leu Leu His Lys Gln
130 135 140
Gln Asp Ser Leu Val Asp Leu Cys Ile Leu Val Ala Gly Arg Ala Gly
145 150 155 160
Ala Asp Leu Leu Gln Pro Ala Leu Gln Gly Asp Asp Asp Gly Asp Gly
165 170 175
Glu Leu Gly Glu Gly Asp Met Phe Gly Pro Glu Asp Glu Glu Leu Gly
180 185 190
Glu Gln Leu Gly Asp Leu Phe Ala Asp Ala Ile Leu Val Asp Ala Arg
195 200 205
Ala Glu Val Gly Phe Arg Gly Ala Asp Gly Gly Ala Glu Val Glu Leu
210 215 220
Leu Glu Gly Ala Gly Phe Arg Gly Leu Ala His Leu Gly Cys Val Glu
225 230 235 240
Asp Leu Glu Glu Gly Arg Gly Tyr Gly His Val Arg Ala Cys Gly Thr
245 250 255
Gly Glu Ala Glu Glu Gly Ala Ser Glu Leu Glu Ala Glu Trp Glu Val
260 265 270
Arg Cys Gly Gly Asp Glu Ala His Arg Ala Glu Gly Asp Leu Asp His
275 280 285
Gly Val Xaa Glu Gly Pro Gln Gly Gly Leu Leu Ser Gly Phe Ser Phe
290 295 300
Asp Glu Thr Val Ala Val Leu Gly Glu Asp Ala Arg Pro Glu Val Gln
305 310 315 320
Arg Val Arg Val Leu Pro Val Val His Gly Leu Val Arg Phe Leu Gly

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<210> 32578
<211> 263
<212> PRT
<213> A.fumigatus
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<400>	32578															
Lys 1	Ile	Ser	Leu	Leu	His	Ser	Pro	Tyr	Ala	Tyr	Met	Cys	Leu	Ser	Lys	
				5					10					15		
Thr	Val	Ile	Val	Pro	Leu	Met	Cys	Thr	Cys	Thr	Val	Phe	Leu	Asn	Phe	
			20					25					30			
Ala	Thr	Phe	Ile	Asp	Ile	Ile	Ser	Gly	Ile	Val	Pro	Ser	Tyr	Arg	Thr	
		35					40					45				
Arg	Trp	Asn	Lys	Arg	Asn	Lys	Gln	Asn	Phe	Lys	Thr	Gly	Gly	Tyr	Leu	
	50					55					60					
Glu	Glu	Glu	Gly	Ile	Tyr	Ser	Ser	Ser	Asn	Ser	Ser	Ser	Ser	Ser	Ser	
65					70					75						80
Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	
				85					90					95		
Ser	Ser	Ser	Ser	Ser	Ser	Ser	Pro	Asp	Glu	Ala	Ser	Leu	Pro	Ser	Ser	
			100					105					110			
Ser	Leu	Gly	Ala	Ser	Ser	Ile	Ile	Ser	Ser	Ser	Ser	Ala	Phe	Phe	Ser	
		115					120					125				
Ala	Ala	Arg	Arg	Phe	Ser	Ser	Ser	Arg	Arg	Pro	Cys	Ser	Arg	Ile	Ala	
	130					135					140					
Ala	Phe	Ser	Ser	Leu	Asn	Phe	Arg	Cys	Val	Leu	Thr	Asn	Ala	Pro	Lys	
145					150					155					160	
Gly	Val	Asp	Ser	Gln	Ser	Thr	Ser	Phe	Arg	Asn	Asp	Ser	Thr	Ser	Ala	
				165					170					175		
Arg	Leu	Arg	Gly	Val	Tyr	Val	Thr	Phe	Ser	Leu	Phe	Ser	Ser	Ile	Gln	
			180					185					190			
Arg	Ala	Leu	Ala	Ser	Thr	Phe	Cys	Thr	Ser	Ser	Lys	Ile	Ala	Trp	Leu	
		195					200					205				
Thr	Phe	Ala	Phe	Leu	Leu	Pro	Val	Val	Arg	Glu	Pro	Thr	Cys	Phe	Ser	
	210					215					220					
Gln	Arg	Phe	Arg	Ala	Thr	Thr	Met	Gly	Thr	Glu	Ser	Ser	Gly	Lys	Ala	
225					230					235					240	
Ile	Cys	Leu	Val	Gln	Arg	Thr	Lys	Asn	Ser	Glu	Ser	Ser	Ser	Ala	Thr	
				245					250					255		

Cys Ser Pro Thr Pro Ser Trp
260

<210> 32579

<211> 496

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (217)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32579

Arg	Arg	Arg	Pro	Pro	Gly	Lys	Val	Arg	Val	Ser	Leu	Asp	Ser	Lys	Lys
1			5						10					15	
Phe	Lys	Thr	Leu	Thr	Pro	Leu	Ile	Lys	Ser	His	Thr	Ser	Ser	Val	His
			20					25					30		
Gln	Leu	Leu	Val	Asn	Leu	Ser	Asp	Ala	Ser	Thr	Leu	Lys	Leu	Thr	Leu
			35					40				45			
Ser	Ser	Ile	Glu	Pro	Met	Leu	Pro	Tyr	Leu	Leu	Gln	Phe	Arg	Lys	Leu
	50					55					60				
Leu	Lys	Val	Leu	Ile	Lys	Thr	Ile	Val	Gly	Ile	Trp	Ala	Asp	Val	Ser
65					70					75				80	
Thr	Thr	Glu	Ala	Thr	Arg	Ile	Thr	Gly	Phe	Leu	Leu	Leu	Arg	Lys	Leu
				85					90					95	
Met	Val	Ile	Gly	Asp	Ser	Gly	Leu	Lys	Glu	Thr	Val	Leu	Lys	Ala	Leu
			100					105					110		
Tyr	Glu	Gly	Val	Val	Lys	Gly	Thr	Arg	Asn	Thr	Thr	Val	His	Thr	Leu
	115						120						125		
Ser	Gly	Val	His	Leu	Met	Lys	Asn	Ser	Ala	Ala	Glu	Leu	Trp	Gly	Ile
	130					135					140				
Asp	Gln	Asp	Ile	Ser	Tyr	Thr	Thr	Gly	Phe	Arg	Phe	Ile	Arg	Gln	Leu
145					150					155					160
Ala	Met	His	Leu	Arg	Ser	Ser	Ile	Thr	Asn	Ala	Ser	Lys	Glu	Ser	Tyr
			165						170					175	
Lys	Thr	Met	Tyr	Asn	Trp	Gln	Tyr	Thr	His	Ser	Leu	Asp	Phe	Trp	Ser
			180						185				190		
Arg	Val	Leu	Ser	Gln	His	Cys	Asp	Gly	Leu	Val	Glu	Ala	Lys	Ala	Gly
	195						200					205			
Lys	Gln	Ser	Ala	Leu	Arg	Pro	Leu	Xaa	Tyr	Pro	Val	Val	Gln	Ile	Thr
	210					215					220				
Leu	Gly	Ala	Met	Arg	Leu	Ile	Pro	Thr	Ala	Thr	Tyr	Phe	Pro	Leu	Arg
225					230					235					240
Phe	Gln	Leu	Thr	Arg	Ala	Leu	Leu	Arg	Leu	Ser	Arg	Ala	Thr	Gly	Thr
			245						250					255	
Tyr	Val	Pro	Val	Ala	Pro	Ala	Leu	Leu	Glu	Val	Leu	Asn	Ala	Ala	Glu
			260					265				270			
Met	Arg	Lys	Pro	Pro	Lys	Ser	Ser	Thr	Leu	Lys	Gln	Leu	Asp	Phe	Ser
	275						280					285			
Thr	Ala	Ile	Arg	Ala	Pro	Lys	Ser	Tyr	Leu	Arg	Thr	Arg	Ile	Tyr	Gln
	290					295					300				
Asp	Gly	Val	Gly	Glu	Gln	Val	Ala	Glu	Leu	Leu	Ser	Glu	Phe	Phe	Val
305					310					315					320
Leu	Trp	Thr	Lys	His	Ile	Ala	Phe	Pro	Glu	Leu	Ser	Val	Pro	Ile	Val
			325						330					335	

Val Ala Leu Lys Arg Trp Leu Lys Gln Val Gly Ser Arg Thr Thr Gly
 340 345 350
 Asn Lys Asn Ala Lys Val Asn Gln Ala Ile Leu Leu Leu Val Gln Lys
 355 360 365
 Val Glu Ala Asn Ala Arg Trp Ile Glu Glu Lys Arg Leu Asn Val Thr
 370 375 380
 Tyr Thr Pro Arg Asn Arg Ala Glu Val Glu Ser Phe Leu Lys Asp Val
 385 390 395 400
 Asp Trp Glu Ser Thr Pro Leu Gly Ala Phe Val Lys Thr Gln Arg Lys
 405 410 415
 Leu Arg Glu Glu Lys Ala Ala Ile Leu Glu Gln Gly Arg Arg Glu Glu
 420 425 430
 Glu Lys Arg Arg Ala Ala Glu Lys Lys Ala Asp Glu Asp Glu Met Met
 435 440 445
 Glu Asp Ala Pro Ser Asp Asp Asp Gly Ser Glu Ala Ser Ser Gly Glu
 450 455 460
 Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu
 465 470 475 480
 Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Phe Glu Glu Glu
 485 490 495

<210> 32580

<211> 281

<212> PRT

<213> A.fumigatus

<400> 32580

Lys Gln Asn Ala Phe Ala Glu Met Asn Val Asp Asp Phe Phe Ala Gly
 1 5 10 15
 Gly Phe Glu Ile Ala Asp Ala Asp Thr Asp Lys Gly Lys Ser Arg Arg
 20 25 30
 Lys Asp Val Thr Pro Lys Ile Gly Lys Arg Lys Arg Ser Glu Glu Gln
 35 40 45
 Lys Glu Glu Asp Glu Glu Ala Ser Ser Val Ala Ser Ser Glu Glu Glu
 50 55 60
 Glu Asp Gly Gly Val Ser Asp Asp Asp Ala Ala Ser Gln Ala Ser Ser
 65 70 75 80
 Ala Pro Asp Asp Phe Glu Ala His Lys Asn Gln Leu Gln Ala Leu Lys
 85 90 95
 Asp Lys Asp Pro Glu Phe Tyr Lys Tyr Leu Lys Glu Asn Asp Ser Glu
 100 105 110
 Leu Leu Asp Phe Gly Glu His Gly Asp Leu Thr Glu Val Leu Glu Leu
 115 120 125
 Ser Glu Asp Glu Ala Glu Glu Gly Pro Ala Lys Lys Lys Lys Ala
 130 135 140
 Ala Lys Asp Glu Gly Glu Glu Ala Ala Asp Asn Thr Leu Thr Ile Ala
 145 150 155 160
 Met Val Lys Lys Trp Gln Lys Leu Met Glu Glu Gln Asn Ser Ile Arg
 165 170 175
 Ala Met Arg Gln Ala Val Leu Ala Phe Arg Cys Ala Ala Tyr Ile Asn
 180 185 190
 Glu Ala Glu Thr Gln Glu Gln Lys Tyr Ser Ile Ser Asp Pro Asp Val
 195 200 205
 Tyr His Gln Val Leu Val Thr Ala Leu Gly Thr Val Pro Lys Val Leu
 210 215 220
 Ala His His Leu Pro Val Lys Glu Thr Ala Ser Arg Lys Ser Gln Gly

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<210> 32581
<211> 60
<212> PRT
<213> A.fumigatus
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<210> 32582
<211> 292
<212> PRT
<213> A.fumigatus
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<400>	32582															
Ala	Val	Ser	Tyr	Glu	Glu	Trp	Arg	Ser	Cys	Ala	Cys	Glu	Leu	Asp	Glu	
1				5					10					15		
Leu	Glu	Asp	Asn	Asn	Thr	Trp	Lys	Gln	Thr	Phe	Glu	Cys	Ser	Glu	Tyr	
			20					25					30			
Ser	Pro	His	Leu	Val	Gln	Glu	Arg	Leu	Lys	Gln	Leu	Glu	Glu	Ala	Arg	
		35					40					45				
Ile	Ser	Cys	Asp	Val	Ser	Arg	Met	Leu	Phe	Leu	Ile	Arg	Thr	Ser	Leu	
	50					55					60					
Ser	Arg	Asp	Leu	Gly	Asn	Met	Ser	Asn	Ala	Ala	Leu	Tyr	Arg	His	Ser	
65					70					75					80	
His	Val	Gly	Thr	Lys	Asp	Leu	Ile	Asp	Arg	Tyr	Ile	Thr	Thr	Ala	Val	
				85					90					95		
Asp	Thr	Ile	Ser	Met	Leu	Val	Asp	Leu	Ala	Gly	Lys	Lys	Cys	Asp	Val	
			100					105					110			
Leu	Glu	Ser	Arg	Tyr	Met	Leu	Asp	Gln	Leu	Leu	Ala	Ala	Arg	Gln	Ala	
		115					120					125				
Phe	Gly	Arg	Ser	Ala	Leu	Leu	Phe	Ser	Gly	Gly	Ala	Thr	Phe	Gly	Met	
	130					135					140					
Asn	His	Ile	Gly	Val	Leu	Lys	Ala	Leu	Trp	Glu	Ala	Lys	Leu	Leu	Pro	
145					150					155					160	
Arg	Ile	Ile	Ser	Gly	Ala	Ser	Ala	Gly	Ser	Ile	Val	Cys	Ala	Val	Phe	
			165						170					175		
Cys	Thr	Arg	Thr	Asp	Asp	Glu	Leu	Pro	Ala	Leu	Leu	Glu	Ser	Tyr	Ala	
			180					185					190			
Tyr	Gly	Asp	Phe	Ala	Val	Phe	Asp	Glu	Glu	Gly	Lys	Glu	Glu	Asn	Ile	
	195						200					205				
Leu	Gln	Lys	Thr	Ala	Arg	Phe	Leu	Lys	Tyr	Gly	Ser	Phe	Leu	Asp	Ile	

210	215	220
Ser Asn Leu Ala Arg Val Met Arg Asn Trp Leu Gly Asp Ile Thr Phe		
225	230	235
Gln Glu Ala Tyr Asn Arg Thr Arg Arg Ile Leu Asn Ile Cys Val Ser		240
	245	250
Ser Ala Gly Val Tyr Glu Leu Pro Arg Leu Leu Asn Tyr Ile Thr Pro		255
	260	265
Thr Gln Gly Gly Asp Leu Phe Cys Cys Leu Ser Phe Ile Ile Val Met		270
	275	280
Leu Asn Leu Pro		285
290		

<210> 32583

<211> 425

<212> PRT

<213> A.fumigatus

<400> 32583

Ile Ala Trp Pro Phe Cys Asp Leu Thr Cys Asn Ser Val Phe Ser Cys		
1	5	10
Ser Val Pro Leu Phe Phe Thr Pro Phe Val Leu Met Ala Lys Asn Pro		15
	20	25
Leu Thr Gly Glu Ala Val Pro Trp Thr Asp Phe His Lys Gln Tyr Ile		30
	35	40
Ala Ala Ser Val Asp Gly Asp Leu Pro Met Thr Arg Leu Ser Glu Met		45
	50	55
Phe Asn Val Asn His Phe Ile Val Ser Gln Val Asn Pro His Val Val		60
65	70	75
Pro Ile Phe Pro Lys Asp Asp Gly Pro Ser His Gly Pro Met Gln Thr		80
	85	90
Ser Ser Ser Pro Thr Trp Leu His Thr Val Thr His Leu Ala Lys Asp		95
	100	105
Glu Ile Leu His Arg Met Ala Val Leu Ser Asp Leu Gly Ile Phe Pro		110
	115	120
Thr Ser Leu Thr Lys Ala Ala Ser Ile Met Asn Gln Lys Tyr Tyr Gly		125
	130	135
Asp Ile Asn Ile Tyr Pro Glu Ile Leu Tyr Ala Asn Phe Pro Arg Ile		140
145	150	155
Leu Lys Asn Pro Thr Thr Glu Phe Met Leu Gln Ala Cys Leu Ser Gly		160
	165	170
Glu Arg Ala Thr Trp Pro Lys Leu Gly Arg Ile Arg Asn His Cys Ala		175
	180	185
Ile Glu Leu Ala Leu Asp Ser Ala Ile Gln Gln Met Arg Val Arg Val		190
	195	200
Ala Phe Ser Pro Ser Leu Val Asp Leu Arg Tyr Gln Gly Phe Asn Gly		205
210	215	220
His Ser Ile Asp Ser Leu Asp Ser Ser Gly Gly Arg Gly Arg Met Leu		225
225	230	235
Asn Arg Arg Ser Ser Tyr Asp His Gly Val Glu Arg Met Glu Arg Met		240
	245	250
Arg Pro Asn Ser Gly Arg Arg Ser Thr Ala Gln Val Arg Arg Ser Arg		255
	260	265
Ser Glu Tyr Leu Ala Glu Gln Ser His Ser Leu Ser Val Val Arg Ser		270
	275	280
Ala Glu Ala Gly Gln Glu Ile Gln Asp Arg Ser Asp Asp Arg Pro Lys		285
290	295	300

Asp Leu Thr Val Asp Gly Thr Tyr Cys Ile Asp Phe Asp Tyr Asp Glu
 305 310 315 320
 Thr Asp Leu Ser Ser Pro Glu Arg Pro Val Leu Leu Arg Ala Ser Ser
 325 330 335
 Trp Gly Ser Ser Ala Gly Ala Gln Pro Gly Ser Arg His Ser Gln Gln
 340 345 350
 Ser Thr Val Arg Thr Arg Pro Leu Leu Thr Thr Ala Ala Ser Val Met
 355 360 365
 Gly Pro Ser Val Ser Thr Ser Arg Trp Pro Ser Ser Ala His Ser Ala
 370 375 380
 Asp Asn Ala Ser Pro Arg Met Ser Leu Tyr Ser Lys Thr Ile Ser Pro
 385 390 395 400
 Pro His Asn Leu Leu Gln Met Thr Pro Ala Val His Gly Ile Ser Ala
 405 410 415
 Gly Thr Ser Thr Arg His Ser Tyr Asn
 420 425

<210> 32584

<211> 391

<212> PRT

<213> A.fumigatus

<400> 32584

Leu Lys Gln Ser Ala Thr Phe Lys Gln Thr Ser Gly Gly Gly Gly Gly
 1 5 10 15
 Glu Tyr Asp Tyr Thr Arg Ser Gly Asn Pro Thr Arg Thr His Leu Glu
 20 25 30
 Arg His Leu Ala Lys Ile Met Ser Ala Gln Arg Ala Leu Val Val Ser
 35 40 45
 Ser Gly Met Ala Ala Leu Asp Val Ile Ser Arg Leu Leu Arg Pro Gly
 50 55 60
 Asp Glu Val Val Thr Gly Asp Asp Leu Tyr Gly Thr His Arg Leu
 65 70 75 80
 Leu Lys Tyr Leu Ser Thr Asn Gly Gly Ile Ile Val His His Val Asp
 85 90 95
 Thr Thr Gln Pro Glu Lys Val Arg Glu Val Leu Thr Pro Lys Thr Ala
 100 105 110
 Met Val Leu Leu Glu Thr Pro Thr Asn Pro Leu Ile Lys Ile Val Asp
 115 120 125
 Ile Pro Gln Ile Ala Thr Ala Ala His Glu Val Asn Pro Ser Cys Leu
 130 135 140
 Val Ala Val Asp Asn Thr Met Met Ser Pro Leu Leu Leu Asn Pro Leu
 145 150 155 160
 Glu Leu Gly Ala Asp Ile Val Tyr Glu Ser Gly Thr Lys Tyr Leu Ser
 165 170 175
 Gly His His Asp Leu Met Ala Gly Val Ile Ala Val Asn Asp Leu Ala
 180 185 190
 Leu Gly Glu Arg Leu Tyr Phe Pro Ile Asn Ala Ser Gly Cys Gly Leu
 195 200 205
 Ser Pro Phe Asp Ser Trp Leu Met Arg Gly Val Lys Thr Leu Lys
 210 215 220
 Val Arg Met Asp Gln Gln Gln Ser Asn Ala Gln Arg Ile Ala Glu Phe
 225 230 235 240
 Leu Glu Ala His Gly Phe Lys Val Arg Tyr Pro Gly Leu Arg Ser His
 245 250 255
 Pro Gln Tyr Glu Leu His His Ser Met Ala Arg Gly Ala Gly Ala Val

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<210> 32585
<211> 145
<212> PRT
<213> A.fumigatus
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<210> 32586
<211> 249
<212> PRT
<213> A.fumigatus
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<400> 32586
Lys Asn Ala Glu Glu Cys Arg Arg Val Lys Glu Thr Tyr Arg Pro Pro
1 5 10 15
Gln Ile Val Asn Glu Ile Ile Tyr Ile Leu Asn Thr Asn Thr Gln Pro
20 25 30
Asp Gln Ile Phe Arg His Arg Ser Leu Leu Ser Arg Phe Arg Val Asn

35	40	45
Thr Gly Met Ala His Pro	Thr Gly His Ala Asp Gln	Thr Val Asp Thr
50	55	60
Ala Glu Ala Asp Thr Asp	Gly Pro Gln Leu Gly Ala Phe Asp Asp Ala	
65	70	75
Leu Ala Asp Gly Asp Ile Ala Ser Leu Lys Arg Gln His Arg Ser Ser		80
	85	90
Ala Pro Arg His Gly Val Val Gln Leu Val Leu Arg Val Arg Pro Gln		95
	100	105
Pro Arg Ile Ala Asn Leu Glu Pro Met Gly Phe Glu Lys Leu Gly Asn		110
	115	120
Ala Leu Arg Val Gly Leu Leu Leu Val His Pro His Leu Glu Arg Leu		125
	130	135
Asp Thr Ala His Gln Glu Pro Gly Val Lys Arg Arg Gln Ala Ala Ser		140
	145	150
Arg Ser Val Asp Gly Glu Val Gln Pro Leu Pro Lys Ser Lys Val Val		155
	165	170
His Ser Asn His Thr Gly His Glu Ile Val Met Ala Arg Gln Val Leu		175
	180	185
Gly Ser Thr Phe Ile Asn Asn Ile Arg Thr Glu Leu Lys Arg Val Gln		190
	195	200
Lys Glu Arg Arg His His Ser Val Val His Arg His Gln Ala Ala Arg		205
	210	215
Val Asp Leu Val Arg Ser Cys Gly Asn Leu Gly Asp Ile Asp Asn Leu		220
	225	230
Asp Glu Arg Val Gly Arg Arg Leu Glu		235
	245	

<210> 32587

<211> 64

<212> PRT

<213> A.fumigatus

<400> 32587

Cys Leu Gln Gly Ile Glu Ser Tyr Lys Thr Arg Gln Glu Pro Ser Leu
1 5 10 15
Leu Ile Gly Leu His Arg Val Asp Cys Tyr Val Asp Ala Leu Glu Ala
20 25 30
Cys Arg Gly Arg His Ser Ser Asp Gly Leu Ala Ala Lys Ala Lys Phe
35 40 45
Leu Phe Ala Asn Gln Asn Ser Asp Ile His Leu Ala Thr Thr Lys Asn
50 55 60

<210> 32588

<211> 83

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (48), (56), (67), (72), (76)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32588

Asp Arg Gln Ser Arg Tyr Arg Val Ser Gly Gly Asn Asp Pro Gln Val
1 5 10 15

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Pro Arg Leu Val Ala Ser Met Glu Thr Trp Gln Thr Pro Gly His Pro
      20                      25                      30
Gln Asn Lys Tyr Ile Phe Arg Ser Thr Phe Glu Gly Lys Val Asn Xaa
      35                      40                      45
Gly Trp Asn Tyr Ser Arg Ile Xaa Leu Ile Arg Gly Leu Trp Glu Pro
      50                      55                      60
His Ser Xaa Ala Leu Gly Val Xaa Ala Arg Glu Xaa Ala Ala Thr Arg
      65                      70                      75                      80
Pro Ala Val

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<210> 32589

<211> 690

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (655), (664), (675), (680), (683)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32589

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Lys Val Leu Arg Ser Val Leu Val Asp Val Asp Phe Ala Glu Ala Ile
1      5      10      15
Arg Ser Leu Lys Ser Lys Ser Pro Asp Asp Gln Gln Thr Leu Leu Ile
      20      25      30
Ala Ser Trp Ala Gly Ser Arg Arg Leu Glu Ala Lys Tyr Gly Gln Tyr
      35      40      45
Val Gln Gly Asp Ala Ala Thr Thr Ala Thr Leu Arg Ala Pro Gly Val
      50      55      60
Ala Val Lys Val Gln Phe Glu Asp Asn Gly Lys Asp Val Ser Ala Leu
      65      70      75      80
Asn Ala Glu Leu Lys Ile Asp Ala Ser Thr Asn Val Leu Tyr Pro Ser
      85      90      95
Leu Val Pro Val Ile Lys Gln Met Thr Ala Ala Ile Lys Glu Val Met
      100     105     110
Glu Gly His Asp Lys Pro Arg Lys Pro Ser Ser Ala Ala Met Leu Gln
      115     120     125
Pro Gln Lys Leu Met Gln Glu Ala Pro Phe Asp Thr Lys Asp Ala Ala
      130     135     140
Ser Ile Phe Gly Arg Cys Lys Val Asn Val Gly Ile Leu Ile Arg Lys
      145     150     155     160
Gln Glu Phe Ser Leu Ser Cys Gln Pro Ile Ala Arg Val Ala Ala Thr
      165     170     175
Ala Gly Phe Glu Ser Val Tyr Ile Thr Val Asn Thr Val Gln Ser Asp
      180     185     190
Glu Gln Gly Arg Phe Leu Ala Gly Leu Val Ala Phe Asn Ser Leu Gln
      195     200     205
Ala Ser Val Lys His Val Tyr Ser Asn Glu Ser Thr Ala Ser Phe Asp
      210     215     220
Val Lys Ser Ile Val Met Ser Leu Met Asn Ser Lys His Leu Ser Ser
      225     230     235     240
Ser Lys Gly Ile Ser Ala Val Leu Arg Val Ser Pro Val Gln Val Met
      245     250     255
Leu Asn Ala Lys Gln Val Gln Asp Leu Leu Leu Phe Arg Glu Ile Trp
      260     265     270

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Val Pro Ser Asn Glu Glu Ser Asn Gly Gly Arg Ala Phe Gln Pro Glu
 275 280 285
 Ser Asn Glu Pro Gln Ala Tyr Ile Val Gln Arg Tyr Gln Gln Val Ala
 290 295 300
 Ala Ala Pro Ala Phe Pro Trp Asn Ser Ala Val Ala Ile Glu Lys Leu
 305 310 315 320
 Glu Ile Gln Leu Asp Leu Gly Ser Thr Leu Gly Lys Ala Gln Phe Ala
 325 330 335
 Val Asn Asp Leu Trp Leu Ser Ser Arg Lys Thr Ser Asp Arg Glu Gln
 340 345 350
 Ser Leu Ser Ile Gly Phe Lys Ser Ser Glu Val Glu Ser Lys Gly Arg
 355 360 365
 Met Ser Gly Ser Val Glu Leu Gln Ile Leu Lys Ile Arg Thr Ser Ile
 370 375 380
 Gln Trp Pro Glu Glu Lys Pro Asn Ala His Ser Val Pro Leu Ile Gln
 385 390 395 400
 Ala Ser Ile Ser Phe Gln Gln Leu Gln Ala Lys Val Ser Phe Asp Tyr
 405 410 415
 Gln Pro Phe Leu Val Ala Asn Ile Ser Met Phe Asp Phe Leu Met Tyr
 420 425 430
 Asn Val Arg Gly Thr Ile Gly Ala Pro Lys Gln Arg Leu Phe Ser Ile
 435 440 445
 Leu Glu Gly Asp Lys Val Gln Val Phe Cys Thr Ser Leu Thr Ala Ser
 450 455 460
 Gln Cys Leu Ala Leu Ile Gln Gly Trp Gln Arg Leu Ala Gln Asp Lys
 465 470 475 480
 Gln Ala Ala Tyr Glu Ala Ser Leu Arg Glu Val Glu Arg Tyr Leu Arg
 485 490 495
 Arg Arg Ala Ser Val Ala Thr Glu Lys Met Glu Pro Gln Ala Lys Glu
 500 505 510
 Leu Ala Lys Lys Ala Lys Asp Thr Asn Asp Glu Lys Ala Pro Ile Ser
 515 520 525
 Leu Asn Thr Gly Val Val Val Ser Ile Thr Glu Val Asn Leu Gly Val
 530 535 540
 Phe Pro Ser Ser Phe Phe Asp Asn Gln Ile Phe Lys Leu Glu Ala His
 545 550 555 560
 Asp Ala Gln Ala Arg Phe Tyr Val Ser Leu Lys Glu Gly Lys Ile His
 565 570 575
 Ser Ala Leu Gly Leu Thr Leu Gly Gln Leu Arg Val Ala Leu Ser Ala
 580 585 590
 Val Asn Arg Pro Thr Cys Thr Asp Ile Glu Asp Phe Leu Val Ser Glu
 595 600 605
 Ile Val Ser Arg Ala Thr Gly Ser Arg Gly Gly Thr Ile Leu Lys Cys
 610 615 620
 Leu Gly Ser Trp Leu Val Trp Arg Leu Gly Lys Pro Arg Ala Ile Arg
 625 630 635 640
 Arg Ile Ser Ile Ser Phe Ala Val Leu Ser Lys Ala Lys Ser Xaa Ser
 645 650 655
 Asp Gly Thr Ile Pro Ala Ser Xaa Ser Ser Gly Asp Cys Gly Asn Pro
 660 665 670
 Ile Pro Xaa Arg Trp Ala Ser Xaa Leu Gly Xaa Pro Leu Gln Pro Val
 675 680 685
 Arg Arg
 690

12830

<211> 91
<212> PRT
<213> A.fumigatus

<400> 32590
Cys Phe Glu Ser Ser Leu Phe Arg Gln Ser Ser Glu Phe Leu Val Leu
1 5 10 15
Asp Trp Lys Ala Ile Lys Leu Phe Ala Asp Thr Ser Asp Glu Gly Gly
20 25 30
Leu Phe Cys Cys Ser Val Ser Arg Val Phe Ile Ala Pro Asn His Ile
35 40 45
Asn Ile Leu Gly Thr Val Arg Arg Thr Tyr Gly Ser His Phe Phe Leu
50 55 60
Arg Ser Phe Phe Leu Ala Ser Arg Phe Met Ala Ser Tyr Asn Ala Asp
65 70 75 80
Arg Ala Ser Pro Lys Thr Thr Met Arg Phe Ser
85 90

<210> 32591
<211> 135
<212> PRT
<213> A.fumigatus

<400> 32591
Cys Gly Met Gln Gln Ala Thr Lys Pro Val Lys Ala Lys Ala Gln Glu
1 5 10 15
Asn Lys Thr Thr Arg Met Pro Gln Asn Glu Leu Leu Asp Leu Ile Tyr
20 25 30
Gln Cys Phe Arg Glu Tyr Lys Tyr Trp Pro Phe Lys Thr Leu Lys Ala
35 40 45
Arg Leu Arg Gln Pro Glu Ala Tyr Leu Lys Gln Thr Leu Glu Met Val
50 55 60
Ala His Leu Val Lys Ser Gly Asp Phe Ala Met Thr Trp Glu Leu Lys
65 70 75 80
Pro Glu Ala Met Glu Ser Asn Tyr Ala Asn Ala Leu Ser Tyr Gly Asn
85 90 95
Ala Lys Glu Glu Leu Pro Pro Gly Thr Asp Tyr Asn Phe Asp Asp Gly
100 105 110
Ser Glu Glu Glu Ala Asn Ala Ser Gly Met Val Thr Asp Asn Asp Glu
115 120 125
Met Lys Phe Glu Asp Val Val
130 135

<210> 32592
<211> 405
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (30)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32592
Cys Ser Ser Leu Ser Leu Arg Thr Asn Val Phe Asn His Thr Lys Val
1 5 10 15

12831

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Ile Met Ser Asp Pro Leu Gly Leu Ile Ser Ser Lys Cys Xaa His Arg
      20                      25                      30
Arg Val Ile Leu Asp Thr Ala Tyr Gly Pro Leu Thr Ile Leu Phe Gly
      35                      40                      45
Asp Ile Gly Gly Thr Thr Gly Pro Ala Leu Leu Phe Leu Pro Gly Met
      50                      55                      60
Phe Ala Ser Arg Tyr Leu Ser Ile Pro Met His Val Ile Ala Glu Arg
      65                      70                      75                      80
Ala Gly Val Arg Leu Leu Val Val Asp Arg Pro Gly Met Gly Ala Ser
      85                      90                      95
Thr Asn Val Pro Leu Ala Gln Arg Ile Ala Ile Trp Val Asp Met Leu
      100                     105                     110
Pro Arg Leu Leu Ala His Leu Gly Ile Pro Arg Val Asn Leu Val Ser
      115                     120                     125
His Ser Ala Gly Thr Ile Tyr Leu Leu Asn Thr Trp Ala Gln Cys Arg
      130                     135                     140
Glu Leu Val Gly Pro Val Val Ala Phe Leu Gly Asn Phe His Pro Tyr
      145                     150                     155                     160
Pro Ser Leu Phe Phe Cys Leu Phe Leu Gly Trp Lys Thr Arg Gln Arg
      165                     170                     175
Asn Lys Thr Gln Lys Arg Arg Arg Ile Thr Gln Tyr Ser Val Ile Ala
      180                     185                     190
Pro Trp Val Asp Leu Ala His Ser Arg Val Thr Val Met Gln Met Ala
      195                     200                     205
Gln Tyr Val Pro Thr Lys Ala Phe Ala Met Trp His Leu Ile Pro His
      210                     215                     220
Phe Val Val Thr Gln Ala Ser Pro Val Leu Ala Ser Ser Gly Ala Val
      225                     230                     235                     240
Val Arg Arg Leu Ser Ser Gln Ser Ser Arg Gly Arg Arg Ile Ala Arg
      245                     250                     255
Ser Ser Met Pro Ile Gly Gly Glu Ser Asn Val Ile Thr Ala Cys Arg
      260                     265                     270
Thr Leu Asn Arg Arg Asn Ser Arg Val Ser Pro Ser Gly Leu Cys Met
      275                     280                     285
Lys Arg Thr Pro Leu Gly Arg Ile Ala Arg Pro Cys Ser Val Phe Gly
      290                     295                     300
Lys Ala Thr Val Ala Thr Gly Gly Ala Cys Ser Asp Tyr Ala His Cys
      305                     310                     315                     320
Val Gln Ala Leu Ala Ala Gly Glu Arg Ser Thr Gly Gly Arg Val Ser
      325                     330                     335
Val Arg Thr Tyr Phe Ala Ala Lys Asp Ala Leu Val Gly Ser Gly Gly
      340                     345                     350
Gln Lys Tyr Phe Glu Glu Cys Trp Arg Ala Pro Gly Leu Glu Gly Ile
      355                     360                     365
Asp Tyr Ile Ser Thr Thr Ile Asp Gly Thr Asp His Asp Thr Leu Val
      370                     375                     380
Gln Ser Val Glu Val Trp Glu Glu Ile Phe Ser Ser Val Pro Gln Met
      385                     390                     395                     400
Thr Leu Tyr Asp Arg
      405

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<210> 32593

<211> 61

<212> PRT

<213> A.fumigatus

<400> 32593

```

Leu Arg Asp Val Ser Phe Pro Leu Cys Leu Ser Leu Pro Ala Asp Arg
1           5           10           15
Met Ser Ser Val Trp Asn Leu Val Glu Cys Ser His Leu Phe Phe Ala
          20           25           30
Lys Lys Asp Phe Val Leu Asn Asp Glu Gln His Leu Ala Glu Met Val
          35           40           45
Ser Leu Met Gly Pro Pro Gly Leu Pro Leu Arg Thr Ser
          50           55           60

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<210> 32594

<211> 86

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (55), (57)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32594

```

Leu Cys Met Phe Arg Leu Phe Thr Tyr Thr Gly Ile Cys Thr Cys Asn
1           5           10           15
Met Ala Val Gly Leu Ile Lys Leu Ser Thr Asn Asn Gly Arg Pro Arg
          20           25           30
Phe Gly Ser Ser Pro Met Asp Thr Ser Phe Leu Arg Val Met Val Leu
          35           40           45
Tyr Ser Glu Asn Phe Cys Xaa Ser Xaa Gly Arg Leu Pro Cys Ser Phe
          50           55           60
His Ser Phe Asp Tyr Glu Asn Gln His Asp Glu Ile Glu Asn Gln His
          65           70           75           80
Lys Lys Ile Glu Gln Lys
          85

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<210> 32595

<211> 69

<212> PRT

<213> A.fumigatus

<400> 32595

```

His Phe Ser Leu Gln Glu Arg Ile Ile Cys Leu Asn Gly Glu Val Asp
1           5           10           15
Glu Thr Met Ser Ala Ser Ile Val Ala Gln Leu Leu Phe Leu Glu Ala
          20           25           30
Asp Asn Pro Gln Lys Pro Ile His Leu Tyr Ile Asn Ser Pro Gly Gly
          35           40           45
Ser Val Thr Ala Gly Asn Ser Asn Ala Ser Asp Ile Ala Val Val Cys
          50           55           60
Thr Lys Gly Leu Ile
          65

```

<210> 32596

<211> 162

<212> PRT

<213> A.fumigatus

12833

<400> 32596

```

Phe Gln Cys Ile Arg Tyr Arg Cys Arg Leu Tyr Lys Arg Thr Asn Leu
1           5           10           15
Thr His Leu Tyr Leu Gly Leu Ala Ile Tyr Asp Thr Met Thr Tyr Ile
          20           25           30
Ala Ser Pro Val Ser Thr Ile Cys Val Gly Gln Ala Ala Ser Met Gly
          35           40           45
Ser Leu Leu Leu Cys Gly Gly Asp Pro Gly Lys Arg Tyr Cys Leu Pro
          50           55           60
His Ser Ser Ile Met Ile His Gln Pro Ser Gly Gly Tyr Phe Gly Gln
65           70           75           80
Ala Ser Asp Ile Ala Ile His Ala Lys Glu Ile Leu Arg Val Arg Asn
          85           90           95
Gln Leu Asn Lys Ile Tyr Gln Arg His Leu Thr Gly Lys Lys Val Leu
          100          105          110
Ser Leu Glu Glu Ile Glu Lys Leu Met Glu Arg Asp Tyr Phe Met Gly
          115          120          125
Ala Gln Glu Ala Leu Glu Met Gly Ile Val Asp Glu Ile Leu Asp Arg
          130          135          140
Arg Val Lys Pro Gln Asn Glu Gly Gly Glu Gly Glu Gly Lys Pro Pro
145          150          155          160
Val Pro

```

<210> 32597

<211> 126

<212> PRT

<213> A.fumigatus

<400> 32597

```

His Tyr Arg Tyr Trp Val Ile Trp Arg Ile Pro Ser Val Arg Phe Leu
1           5           10           15
Asp Tyr Gln Lys Val Lys Asp Ala Glu Arg Ala Lys Ala Lys Glu Leu
          20           25           30
Phe Gly Thr Ala Glu Glu Pro Thr Ala Leu Ala Ser Lys Ile Met Gly
          35           40           45
Ile Lys Ser Arg Thr Phe Asp Val Pro Ser Gly Gly Ala Glu Arg Ala
          50           55           60
Pro Ala Asp Lys Ala Val Arg Val Lys Leu Thr Glu Lys Glu Arg Lys
65           70           75           80
Arg Val Glu Lys Met Ile Arg Glu Ala Arg Ser Leu Gln Glu Ile Thr
          85           90           95
Arg Leu Glu Lys Glu Leu Asn Glu Gly Arg Ile Pro Gly Gly Ala Leu
          100          105          110
Asp Ala Gly Glu Asp Ser Glu Asp Glu Asn Gln Met Gln Thr
          115          120          125

```

<210> 32598

<211> 102

<212> PRT

<213> A.fumigatus

<400> 32598

```

Asp Gln Asp Ala Ile Asp Phe Thr Asp Asn Asp Ile Ser Ser Leu Gly
1           5           10           15
Asn Phe Pro Phe Phe Pro Arg Leu His Thr Leu Leu Leu Ala Arg Asn

```

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<210> 32599
<211> 105
<212> PRT
<213> A.fumigatus
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```
<210> 32600
<211> 79
<212> PRT
<213> A.fumigatus
```

```
<210> 32601
<211> 62
<212> PRT
<213> A.fumigatus
```


12835

```

Ser Arg Cys Arg Ser Thr Arg Val Arg Ile Leu Ala Leu Met Lys Ser
1           5           10           15
Val Val Met Ala Asn Tyr Ser Leu Trp Leu Ser Val Glu Trp Tyr Tyr
          20           25           30
Phe Pro Ser Thr Glu Tyr His Arg Glu Asp Lys Thr Lys His Leu Ile
          35           40           45
Gln Ser Asn Leu Gly Thr Arg His Arg His Asp Ser Pro Val
          50           55           60

```

<210> 32602

<211> 61

<212> PRT

<213> A.fumigatus

<400> 32602

```

Ile Leu Ser Arg Pro Ser Arg Leu Pro Asp Ser Gly Leu Ile Leu Thr
1           5           10           15
Val Ser Ile Gln Val Val His Ala Ile Glu Trp Ile Ala Glu Ile Ala
          20           25           30
Gly Leu Ser Lys Leu Gly Thr Ser Ala Cys Asp Val Ser Asn Leu Glu
          35           40           45
Phe Phe Met Asn His Glu Trp Pro Ser Leu Ile Arg Thr
          50           55           60

```

<210> 32603

<211> 112

<212> PRT

<213> A.fumigatus

<400> 32603

```

Ser Arg Glu Thr Ala Ala Ser Asn Phe Pro Asp His Arg Gly Thr Ala
1           5           10           15
Thr Ala Phe Pro Leu Ala Ala Phe Gly Leu Ser Ala Phe Phe Trp Ser
          20           25           30
Thr Val Ser Ala Val Ile Phe Lys Thr Thr Thr Glu Lys Phe Leu Leu
          35           40           45
Leu Leu Ala Leu Arg Asn Phe Leu Leu Lys Pro Val Val Ile Gln Phe
          50           55           60
Phe Pro Gly Leu Ala Thr Arg Gly Gln Tyr Gln Pro Leu Ser Leu Leu
          65           70           75           80
Gly Glu Thr Tyr Trp Glu Ser Gly Pro Gly Gly Thr Thr Arg Ser Pro
          85           90           95
Glu Leu Thr Asn Phe Leu Ile Glu Glu Val Cys Glu Pro Ser Pro Gln
          100           105           110

```

<210> 32604

<211> 188

<212> PRT

<213> A.fumigatus

<400> 32604

```

Val Ser His Gln Thr Asn Gln Lys Ser Thr Met Asn Ser Ala His Met
1           5           10           15
Thr Ser Gln Ile Asn Leu Ile Val Phe Leu Ile Ile Ser Val Val Ser
          20           25           30
Val Gln Pro Val Val Gln Glu His Asn Pro Arg Ala Gly Leu Ala Gln

```


Arg Ser Thr Cys Gly Ala Gly Thr
245

<210> 32606
<211> 259
<212> PRT
<213> A.fumigatus

<400> 32606
Leu Ala His Pro His Arg Phe Pro Leu Trp Val Ser Tyr Thr Val Ile
1 5 10 15
Thr Asn Phe Arg Tyr Phe Asp Leu Ser Lys Leu Phe Pro Pro Asn
20 25 30
Met Pro Lys Ser Ile Lys Phe Asn Glu Ser Asp Leu Leu Lys Ala Cys
35 40 45
Glu Ala Ala Gln Ala Gln Asn Lys Pro Asn Ile Ser Lys Ile Ala Arg
50 55 60
Glu Tyr Gly Val Pro Tyr Ser Thr Leu Arg Asp Arg Ile Lys Lys Gly
65 70 75 80
Arg Gln Ala Arg Thr Ala Arg Lys Pro Val Asn Lys Ala Leu Asp Gly
85 90 95
Tyr Gln Glu Glu Ala Leu Ile Gln Trp Ile Val Trp Met Arg Asp His
100 105 110
Asn Met Pro Val Thr Pro Lys Leu Leu Glu Glu Phe Ala Asn Gln Ser
115 120 125
Leu Gln Arg Ala Gly Glu Ala Arg Gln Val Ser Arg Val Trp Ala Tyr
130 135 140
Arg Phe Glu Lys Arg Leu Pro Glu His Leu Asn Leu Gly Pro Val Lys
145 150 155 160
Gln Lys Met Lys Glu Ser Lys Arg Ile Lys Ala Glu Asp Ala Gly Leu
165 170 175
Leu Ala Asn Trp Tyr Asn Gln Leu Ala Asn Val Val Lys Asp Thr Pro
180 185 190
Pro Arg Leu Val Tyr Asn Phe Asp Glu Cys Gly Phe Arg Pro Gly Glu
195 200 205
Gly Lys Ala Arg Asn Val Ile Gly Leu Lys Gly Ser Cys Leu Asp Leu
210 215 220
Ala Glu Ser Glu Lys Gly Glu Asn Ile Thr Thr Ile Glu Cys Ile Ala
225 230 235 240
Ala Asp Gly Trp Gln Met Asp Pro Trp Phe Ile Phe Lys Gly Lys Leu
245 250 255
Leu Leu Phe

<210> 32607
<211> 214
<212> PRT
<213> A.fumigatus

<400> 32607
Pro Phe Leu Leu Pro Lys Gly Asn Gly Ile Phe Met Glu Cys Trp Leu
1 5 10 15
Asn Glu Ser Glu Ala Leu Pro Leu Asn Ile Thr Ile Ala Thr Gln Ala
20 25 30
Asn Gly Trp Ile Ser Asp Glu Leu Ala His Gln Trp Leu Gln Ser Phe
35 40 45

Ile Lys Ala Thr Asn Glu Arg Thr Lys Arg Gly Glu Lys Arg Ile Leu
 50 55 60
 Ile Phe Asp Gly His Gly Ser His Leu Thr Val Asp Phe Leu Gln Thr
 65 70 75 80
 Cys Glu Asp Asn Gly Val Ile Pro Phe Gly Phe Leu Pro His Thr Thr
 85 90 95
 His Leu Cys Gln Pro Leu Asp Gly Lys Pro Phe Leu Ser Tyr Lys Gln
 100 105 110
 His Phe Arg Arg Ile Asn Asn Glu Leu Ser Tyr Trp Ala Gly Glu Pro
 115 120 125
 Val Gly Lys Ser Glu Phe Leu Arg Val Ile Gly Pro Val Arg Glu Lys
 130 135 140
 Ala Phe Asn Gln Arg Ile Ile Cys Glu Ala Phe Lys Asp Arg Gly Ile
 145 150 155 160
 Trp Pro Val Asp Gly Ser Lys Ile Val Asp Asn Leu Ala Ile Gln Ala
 165 170 175
 Trp Glu Gln Ile Pro Asp Val Tyr Ala Pro Asp Leu Asp Ala Cys Leu
 180 185 190
 Arg Gly Thr Pro Ser Pro Pro Pro Ile Ser Ser Ser Ser Val Asp Ile
 195 200 205
 Thr Pro Pro Arg Thr Ile
 210

<210> 32608

<211> 267

<212> PRT

<213> A.fumigatus

<400> 32608

Ser Ser Phe Ile Gln Pro Pro Ile Leu Ser Glu Arg Phe Ala Ala Thr
 1 5 10 15
 Ala Ala Phe Gln Tyr Tyr Ser Arg Leu Pro Ser Leu Gln Asn Leu Val
 20 25 30
 Ala Phe Ile Gln His Lys Phe Cys Asp Arg Ser Asp Glu Lys Cys Val
 35 40 45
 His His Ala Glu Ser Ile Leu Ser Ala Asp Ser Val Asp Val Asn Tyr
 50 55 60
 Asp Ser Ile Ser His Ala Leu Thr Val Ser Gly Tyr Trp Ser Thr Ser
 65 70 75 80
 Pro Gly Gln Gly Trp Thr Glu Gln Ile Arg Lys His Ala Ala Asp Thr
 85 90 95
 His Gln Val Glu Val Gly Leu Leu Gly Val Glu Ser Ala Thr Glu Pro
 100 105 110
 Glu Glu Leu Lys Met Gly Gly Leu Leu Gly Val Val Gly Gln Asp Glu
 115 120 125
 Lys Leu Ser Thr Leu Gly Lys Met Lys Gly Gln Thr Glu Leu Ala Pro
 130 135 140
 Ile Ala Asp His Val Pro Glu Pro Thr Leu Phe Ser Phe Pro Ser Arg
 145 150 155 160
 His His Pro Leu Pro Ala Asp Ala Thr Tyr Thr Val Ser Phe Pro Ala
 165 170 175
 Pro Thr Gly Leu His Pro Thr Leu Thr Ile Ser Met Pro Arg Ala Ser
 180 185 190
 Leu Arg Arg Pro Pro Ala Pro Pro Gly Arg His Val Arg Pro Pro His
 195 200 205
 Ile Pro Asp Pro Pro Val Val Asp Leu Arg Arg Gln Ile Pro Ala Leu

12839

210		215		220
Asn His Arg Pro Pro Leu Pro Gln Leu Pro Gln Pro Ser Arg Ser Pro				
225		230		235
Arg Cys Asn Arg Arg Asn Arg Ser Arg Ser Pro Arg Arg Val Leu Leu				240
	245		250	255
Ser Met Gly Leu Lys Leu Ala Ala Arg Ala Pro				
260		265		

<210> 32609
 <211> 159
 <212> PRT
 <213> A.fumigatus

<400> 32609

Gly Gly Pro Pro His Pro Arg Asp Ala Thr Cys Ala Leu His Thr Tyr				
1	5		10	15
Leu Thr Leu Pro Ser Trp Ile Phe Gly Asp Lys Tyr Gln Leu Ser Thr				
	20		25	30
Thr Asp Arg Leu Phe Leu Ser Ser His Asn Leu Ala Ala Leu Arg Ala				
	35		40	45
Val Thr Gly Glu Thr Asp Leu Glu Ala Pro Asp Gly Phe Phe Ser Arg				
	50		55	60
Trp Gly Ser Asn Trp Leu Leu Glu Leu Pro Asn Pro Leu Pro Pro Gly				
65		70	75	80
Tyr Gln Pro Glu Glu Trp Asn Pro Ser Asn Pro Phe Ala Pro Ala Lys				
	85		90	95
Pro Gly Pro Pro Glu Phe Gly Tyr Arg Ser Ala Ala Val Pro Arg Pro				
	100		105	110
Ile Val Phe Trp Pro Ser Arg Lys Lys Lys Ala Gln Asn Gly Phe Asn				
	115		120	125
Pro Leu Asn Trp Val Ile Ser Ala Glu Gly Leu Phe Trp Gly Pro Asn				
	130		135	140
Tyr Phe Phe Phe Ser Pro Gly Pro Gly Glu Gly Arg Asn Pro Ser				
145		150	155	

<210> 32610
 <211> 225
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (18)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32610

His Asp Glu Glu His Gly Phe Ser Lys Trp Ser Glu Gln Glu Gly Leu				
1	5		10	15
Asp Xaa Gly His Arg His His His Arg Tyr Asn Pro Pro Trp Gly Met				
	20		25	30
Phe Arg Gly Leu Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg				
	35		40	45
Gly Phe Gly Pro His Phe Tyr His Phe His His Ala Met His Pro Gly				
	50		55	60
Phe His Phe Phe His His Ser His Asp Pro Thr Arg Phe Thr Pro Pro				
65		70	75	80

12840

Val Asp Val Phe Val Thr Pro Thr His Thr Ile Ile His Val Ser Leu
 85 90 95
 Pro Gly Ala Gln Arg Ser Asp Leu Ser Val Ala Tyr Asp Ala Ser Arg
 100 105 110
 Ala Val Leu Arg Met Ala Gly Val Val Leu Arg Pro Gly Val Asp Glu
 115 120 125
 Glu Met Arg Arg Ala Leu Leu Ile Gly Glu Arg Gly Arg His Leu Gly
 130 135 140
 Val Phe Glu Arg Glu Met Pro Ile Ser His Ser Val Ala Val Glu Gly
 145 150 155 160
 Ile Arg Ala Arg Leu Val Asp Gly Val Leu Arg Val Ala Leu Pro Arg
 165 170 175
 Val Glu Gly Asp Val Pro Gln Pro Asp Glu Glu Met Asp Glu Val Asp
 180 185 190
 Arg Glu Ser Ala Ser Arg Glu Phe Asn Ser Asp Gly Lys Glu Glu Glu
 195 200 205
 Arg Glu Val Glu Asp Glu Val Glu Arg Glu Tyr Val Lys Val Asp Ile
 210 215 220

Gln
 225

<210> 32611
 <211> 64
 <212> PRT
 <213> A.fumigatus

<400> 32611
 Tyr Met Ala His Gly Gln Glu Ser Val Gly Gly Gly Arg Leu Ala Trp
 1 5 10 15
 Val Ala Asp Ser Leu Trp Asn Tyr Val Lys Ala Tyr Ser Thr Ala Ile
 20 25 30
 Gln Gly Ser Ile Asn Ser Arg Gln Val Phe Ile Leu Ser Asn Leu Phe
 35 40 45
 Met Leu Arg Leu Ile Gly Val Thr Ile Arg Ser Phe Asp Gly Glu Gly
 50 55 60

<210> 32612
 <211> 106
 <212> PRT
 <213> A.fumigatus

<400> 32612
 Leu Ile Phe Phe Gln Leu Leu Gln Thr His Leu Lys Glu Met Phe Ser
 1 5 10 15
 Ile Ile Tyr Thr Pro Thr Glu Gly Asp Ala Ile Gln Asn Tyr Ser Arg
 20 25 30
 Leu Phe Arg Arg Pro Glu Gly Cys Phe Leu Asn Ile Asn Asp Gln Asp
 35 40 45
 Ala Ile Glu Glu Cys Leu Ser Asn Phe Gly Arg Gly Glu Asp Ile Asp
 50 55 60
 Tyr Ile Val Val Ser Asp Gly Glu Glu Val Pro Gly Pro Phe His Ser
 65 70 75 80
 His Cys Tyr Leu Met His Asp Ser Asp Arg Val Asn Tyr Arg Phe Ser
 85 90 95
 Glu Leu Ala Thr Lys Val Leu Val Arg Phe
 100 105

<210> 32613
 <211> 127
 <212> PRT
 <213> A.fumigatus

<400> 32613
 Gly Arg Ala Asn Phe His Tyr Ala Arg Trp Pro Met Asp Gly Ile Leu
 1 5 10 15
 Met Glu Ala Val Gln Gly Met Ser Val Ile His Asn Pro Thr Phe Asn
 20 25 30
 Lys Gly Ser Ala Phe Thr Glu Glu Glu Arg Lys Asn Phe Lys Leu His
 35 40 45
 Gly Leu Val Pro Pro Asn Thr Gln Thr Leu Glu Glu Gln Val His Arg
 50 55 60
 Ala Tyr Glu Gln Tyr Ser Ser Arg Ala Asp Asp Leu Ala Lys Asn Thr
 65 70 75 80
 Phe Met Ala Ser Met Lys Met Gln Asn Glu Val Leu Tyr Phe Arg Val
 85 90 95
 Ser Thr Ile Ile Phe Lys Gly Glu Ala Asp Ile Cys Glu Thr Phe Phe
 100 105 110
 Thr His Val Thr Phe Asp Ile Glu Phe Glu Asn Leu Leu Arg Asp
 115 120 125

<210> 32614
 <211> 153
 <212> PRT
 <213> A.fumigatus

<400> 32614
 Cys Phe Ala Pro Leu Gln Leu Thr Gln Pro Phe Ser Arg Cys Leu Asp
 1 5 10 15
 Lys Pro Gly Leu Leu Val Lys Ser Leu Gly Asp Gln Leu Met Pro Ala
 20 25 30
 Gln Lys Pro Phe Ala Arg Ser Asp Tyr Glu Trp Ser Asp Gly Glu Arg
 35 40 45
 Asp Leu Leu Ser Val Val Lys Lys Val Lys Pro His Ala Leu Ile Gly
 50 55 60
 Thr Ser Thr Lys Pro Asn Ala Phe Thr Glu Glu Ile Ile Arg Glu Met
 65 70 75 80
 Ala Lys His Val His Ser Pro Ile Val Phe Pro Leu Ser Asn Pro Thr
 85 90 95
 Arg Leu His Glu Ala Gln Pro Lys Asp Ile Asn Gln Trp Thr Asn Gly
 100 105 110
 Arg Ala Leu Ile Ala Thr Gly Ser Pro Phe Pro Pro Val Asp Arg Asn
 115 120 125
 Gly Ala Lys Tyr Glu Ile Gly Lys Tyr Arg Leu Ser Lys Val Cys Arg
 130 135 140
 His Asp Met Thr His Trp Lys Thr Leu
 145 150

<210> 32615
 <211> 60
 <212> PRT
 <213> A.fumigatus

<400> 32615

Gln Gly Gln Leu Gln Ile Leu Gly Ile Gly Asp Gln Gly Val Gly Ala
 1 5 10 15
 Ile Leu Ile Ser Val Ala Lys Leu Val Ile Thr Thr Ile Cys Ala Gly
 20 25 30
 Ile His Pro Ser Arg Gln Leu Pro Val Val Leu Asp Cys Gly Thr Asp
 35 40 45
 Val Gly Leu Ala Asp Ile Asn Arg Ser Leu Val Cys
 50 55 60

<210> 32616

<211> 94

<212> PRT

<213> A.fumigatus

<400> 32616

Arg Pro Phe Ala Val Lys Thr Leu Ala Phe Ile Asp Ala Lys Arg Leu
 1 5 10 15
 Leu Asp Gly Phe Arg Pro His Met Ala Cys Phe Asn Asp Asp Ile Gln
 20 25 30
 Gly Thr Gly Cys Val Thr Leu Ala Ala Leu Met Ala Ala Leu His Val
 35 40 45
 Ser Asp Val Lys Leu Gln Asp Val Arg Ile Val Ile Phe Gly Ser Gly
 50 55 60
 Ser Ala Gly Thr Gly Ile Ala Gln Gln Ile Ala Gly Thr Ile Ala Thr
 65 70 75 80
 Glu Thr His Lys Ser Lys Asp Glu Ala Ala Lys Gln Ile Trp
 85 90

<210> 32617

<211> 166

<212> PRT

<213> A.fumigatus

<400> 32617

Cys Arg Gln Ser Asp Thr Pro Gly Ser Leu Asp Ile Ile Ile Glu Ala
 1 5 10 15
 Gly His Val Trp Ser Lys Ser Ile Glu Lys Ser Phe Gly Ile Tyr Glu
 20 25 30
 Gly Gln Ser Leu His Cys Glu Gly Thr Ser Val Ala Trp Leu Ala Val
 35 40 45
 Gln Ile Ala Ala Lys Asp Glu Thr Gln Phe His Ser Gln Met Asp Val
 50 55 60
 Cys Phe Gly Glu Lys Leu Ser Ser Ser Gly Asp Glu Ser Ile His Lys
 65 70 75 80
 Leu Ile Ile Leu Leu Ser Ser Ser Ser Gly Leu Ser Lys Ala Glu Val
 85 90 95
 Lys Leu Ile Val Lys Gln Phe Leu Ile Leu Ser Pro Val Leu Ala His
 100 105 110
 Lys Ala Pro Val Asp Val Cys Glu Pro Tyr Ile Cys Thr Thr Val Gln
 115 120 125
 Asn Tyr Trp Lys Leu Pro Ala Trp Val Asp Ser Ser Ala Asn Ser Cys
 130 135 140
 Asp Tyr Gln Leu Gly Asp Gly Tyr Gln Asn Arg Thr Asn Thr Leu Val
 145 150 155 160
 Ala Asn Ser Glu Asn Leu

165

<210> 32618
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 32618
 Leu Ser Gly Gly Val Thr Asn Trp Asn Asn Tyr Gly Met Thr Tyr Gly
 1 5 10 15
 Trp Met Met Ser Arg Gln Lys Ser Cys His Arg Thr Tyr Arg Ser Lys
 20 25 30
 Tyr Lys Val Cys Leu Gln Tyr Leu Asn Gly Pro Ala Ile Tyr Leu Asp
 35 40 45
 Ser Asp Phe Ile Lys Cys Lys Gln Phe Asp Asn Thr Tyr Gln Ser Ile
 50 55 60
 Glu Leu
 65

<210> 32619
 <211> 154
 <212> PRT
 <213> A.fumigatus

<400> 32619
 Thr Pro Gly Lys Arg Leu Ser Lys Leu Gln Arg Gly Lys Ala Ser Ile
 1 5 10 15
 Ser Arg Lys Ala Tyr Gln Ile Cys Phe Ala Ala Ser Ser Phe Asp Leu
 20 25 30
 Trp Val Ser Val Ala Ile Val Pro Ala Ile Cys Cys Ala Ile Pro Val
 35 40 45
 Pro Ala Glu Pro Glu Pro Lys Met Thr Met Arg Thr Ser Cys Asn Leu
 50 55 60
 Thr Ser Leu Thr Cys Lys Ala Ala Ile Asn Ala Ala Arg Val Thr His
 65 70 75 80
 Pro Val Pro Trp Ile Ser Ser Leu Lys Gln Ala Met Cys Gly Arg Asn
 85 90 95
 Pro Ser Arg Ser Leu Leu Ala Ser Met Lys Ala Lys Val Phe Thr Ala
 100 105 110
 Lys Gly Arg Gln Ser His Gly Leu Arg Phe Lys Leu Arg Pro Lys Thr
 115 120 125
 Arg Leu Asn Phe Thr His Lys Trp Met Tyr Ala Leu Gly Lys Ser Phe
 130 135 140
 Leu Ala Val Val Thr Asn Leu Phe Thr Asn
 145 150

<210> 32620
 <211> 472
 <212> PRT
 <213> A.fumigatus

<400> 32620
 Lys Pro Phe Gln Leu Tyr Arg Leu Ile Arg Ile Asp Ala Glu Thr Ile
 1 5 10 15
 Arg Ile Leu Val Ser Thr Asp Asn His Val Gly Tyr Asn Glu Arg Asp
 20 25 30

Pro Ile Arg Gly Asp Asp Ser Trp Lys Ser Phe His Glu Val Met Cys
 35 40 45
 Leu Ala Lys Glu Arg Asp Val Asp Met Val Leu Leu Ala Gly Asp Leu
 50 55 60
 Phe His Glu Asn Lys Pro Ser Arg Lys Ser Met Tyr Gln Val Met Arg
 65 70 75 80
 Ser Ile Arg Met Asn Cys Leu Gly Asp Lys Pro Cys Glu Leu Glu Met
 85 90 95
 Leu Ser Asp Ala Ser Glu Asn Phe Gln Gly Ala Phe Asn His Val Asn
 100 105 110
 Tyr Glu Asp Leu Asp Ile Asn Val Ala Ile Pro Ile Phe Ser Ile His
 115 120 125
 Gly Asn His Asp Asp Pro Ser Gly Glu Gly His Leu Ala Ala Leu Asp
 130 135 140
 Leu Leu Gln Val Ser Gly Leu Leu Asn Tyr Tyr Gly Arg Thr Pro Glu
 145 150 155 160
 Ser Asp Asn Ile His Ile Lys Pro Val Leu Leu Gln Lys Gly Arg Thr
 165 170 175
 Lys Leu Ala Leu Tyr Gly Met Ser Asn Val Arg Asp Glu Arg Leu Phe
 180 185 190
 Arg Thr Phe Arg Asp Gly Lys Val Lys Phe Tyr Gln Pro Ser Ile Gln
 195 200 205
 Lys Asn Asp Trp Phe Asn Leu Met Cys Val His Gln Asn His His Ala
 210 215 220
 Tyr Thr Glu Thr Gly Tyr Leu Pro Glu Asn Phe Leu Pro Asp Phe Leu
 225 230 235 240
 Asp Leu Val Ile Trp Gly His Glu His Glu Cys Leu Ile Asn Pro Arg
 245 250 255
 Leu Asn Pro Glu Thr Lys Phe His Val Met Gln Pro Gly Ser Ser Val
 260 265 270
 Ala Thr Ser Leu Val Pro Gly Glu Ala Val Pro Lys His Val Ala Ile
 275 280 285
 Leu Ser Ile Thr Gly Arg Glu Phe Lys Cys Glu Pro Ile Arg Leu Lys
 290 295 300
 Thr Val Arg Pro Phe Ala Met Arg Glu Ile Val Leu Ser Glu Glu Lys
 305 310 315 320
 Gly Ala Gln Lys Leu Ala Arg Lys Glu Asn Asn Arg Thr Glu Val Thr
 325 330 335
 Arg Phe Leu Ile Ser Ile Val Glu Glu Leu Ile Glu Glu Ala Gln Ala
 340 345 350
 Glu Trp Leu Glu Met Gln Asp Glu Ala Asp Asp Asp Glu Glu Arg Glu
 355 360 365
 Val Pro Leu Pro Leu Val Arg Leu Arg Val Glu Ile Ser Thr Pro Glu
 370 375 380
 Gly Gly Ser Tyr Asp Cys Glu Asn Pro Gln Arg Phe Ser Asn Arg Phe
 385 390 395 400
 Val Gly Lys Val Ala Asn Val Asn Asp Val Val Gln Phe Tyr Arg Lys
 405 410 415
 Lys Lys Asn Thr Thr Arg Lys Lys Asp Asp Glu Ile Asp Glu Ala
 420 425 430
 Ala Met Ser Gln Leu Ser Thr Leu Asp Thr Val Lys Val Glu Gln Leu
 435 440 445
 Val Arg Glu Phe Leu Ala Ala His Ser Leu Ile Phe Leu Arg Leu Asn
 450 455 460
 Arg Pro Asp Trp Lys Leu Arg Pro
 465 470

<210> 32621
 <211> 741
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (5)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32621
 Tyr Thr His Cys Xaa Gly Pro Phe Arg Ala Pro Val Val Glu Thr Ser
 1 5 10 15
 Leu Tyr Pro Leu Glu Cys Thr His Asn Phe Thr Ala Asp Tyr Val Trp
 20 25 30
 Lys Ser Thr Ser Phe Asp Arg Met Gln Leu Ala Met Lys Thr Phe Ala
 35 40 45
 Val Asp Glu Met Ser Val Ser Gly Tyr Ile Phe His Arg Leu Leu Gly
 50 55 60
 His Glu Val Ala Ala Ala Pro Met Lys Thr Gln Leu Pro Lys Lys Phe
 65 70 75 80
 Ser Val Pro Gly Leu Pro Glu Leu Asn Gly Ser Gln Ile Asn Ala Val
 85 90 95
 Lys Ser Val Leu Gln Arg Pro Met Ser Leu Ile Gln Gly Pro Pro Gly
 100 105 110
 Thr Gly Lys Thr Val Thr Ser Ala Thr Ile Ile Tyr His Leu Ala Lys
 115 120 125
 Ile Asn Gly Gly Gln Val Leu Val Cys Ala Pro Ser Asn Val Ala Val
 130 135 140
 Asp Gln Leu Cys Glu Arg Ile His Arg Thr Gly Leu Lys Thr Val Arg
 145 150 155 160
 Val Thr Ala Lys Ser Arg Glu Asp Val Glu Ser Pro Val Gly Phe Leu
 165 170 175
 Ser Leu His Glu Gln Val Arg Leu Asn Asp Ser Asn Ile Glu Leu Ile
 180 185 190
 Lys Leu Asn Gln Leu Lys Ala Glu Leu Gly Glu Leu Ser Ser Gln Asp
 195 200 205
 Glu Lys Arg Leu Lys Gln Leu Thr Arg Ser Ala Glu Arg Glu Ile Leu
 210 215 220
 Asn Asn Ala Asp Val Ile Cys Cys Thr Cys Val Gly Ala Gly Asp Pro
 225 230 235 240
 Arg Leu Ala Lys Leu Lys Phe Arg Thr Val Leu Ile Asp Glu Ser Thr
 245 250 255
 Gln Ser Ala Glu Pro Glu Cys Met Ile Pro Leu Val Leu Gly Cys Lys
 260 265 270
 Gln Val Val Leu Val Gly Asp His Gln Gln Leu Gly Pro Val Ile Met
 275 280 285
 Asn Lys Lys Ala Ala Lys Ala Gly Leu Asn Gln Ser Leu Phe Glu Arg
 290 295 300
 Leu Val Ile Leu Gly Cys Ser Pro Ile Arg Leu Asn Val Gln Tyr Arg
 305 310 315 320
 Met His Pro Cys Leu Ser Glu Phe Pro Ser Asn Met Phe Tyr Glu Gly
 325 330 335
 Ser Leu Gln Asn Gly Val Ser Ala Phe Asp Arg Leu Arg Arg Asp Val
 340 345 350

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Asp Phe Pro Trp Pro Val Val Asp Ser Pro Met Met Phe Trp Ser Asn
    355                      360                      365
Leu Gly Asn Glu Glu Ile Ser Ala Ser Gly Thr Ser Tyr Leu Asn Arg
    370                      375                      380
Thr Glu Ala Thr Asn Val Glu Lys Ile Val Thr Arg Phe Phe Lys Ala
385                      390                      395                      400
Gly Val Gln Pro Ala Asp Ile Gly Ile Ile Thr Pro Tyr Glu Gly Gln
    405                      410                      415
Arg Ser Tyr Ile Val Ser Ser Met Gln Ala Asn Gly Thr Phe Lys Lys
    420                      425                      430
Glu His Tyr Lys Glu Ile Glu Val Ala Ser Val Asp Ala Phe Gln Gly
    435                      440                      445
Arg Glu Lys Asp Phe Ile Ile Leu Ser Cys Val Arg Ser Asn Asp His
    450                      455                      460
Gln Gly Ile Gly Phe Leu Ser Asp Pro Arg Arg Leu Asn Val Ala Leu
465                      470                      475                      480
Thr Arg Ala Lys Tyr Gly Leu Val Ile Leu Gly Asn Pro Lys Val Leu
    485                      490                      495
Ser Lys His Pro Leu Trp Asn Cys Leu Leu Gln His Phe Lys Glu Arg
    500                      505                      510
His Cys Leu Val Glu Gly Pro Leu Ser Asn Leu Gln Glu Ser Leu Ile
    515                      520                      525
Gln Phe Ser Arg Pro Lys Gln Ser Tyr Arg Gly Pro Gln Arg Phe Gln
    530                      535                      540
Met Ala Tyr Asn His Ala Ser Asn Val Thr Ser Gly Met Met Asn Gly
545                      550                      555                      560
Arg Asn Gly His Arg Asn Glu Phe His Asp Thr Gly Ser Val Ile Gly
    565                      570                      575
Tyr Ile Pro Asp Asp Val Ser Ser Val His Ser Ser Ala Leu Gly Gly
    580                      585                      590
Val Ser Ile Pro Ser Gly Tyr Pro Pro Met Phe Gln Asn Phe Ala Asp
    595                      600                      605
Ala Trp Pro Ala Leu Pro Gly Ala Arg Arg Ala Asn Gly Ala Arg Gly
    610                      615                      620
Lys Gly Ala Pro Ser Val Ala Gly Glu Ser Val Ala Ala Thr Glu Ser
625                      630                      635                      640
Asp Ile Thr Gly Ser Ile Ile Asp Gly Arg Ser Val Asp Gln Gly Gly
    645                      650                      655
Val Ser Leu Ala Gly Leu Ser Ile Asn Asp Met Ser Lys Gln Pro Ser
    660                      665                      670
Leu Ser Gln Ser Asp Arg Leu Lys Arg Tyr Val Glu Ser Gly Gly Arg
    675                      680                      685
Glu Pro Tyr Arg Ala Gly Val Pro Asp Asn Gly Ser Ile Phe Gly Gly
    690                      695                      700
Ser Ser Ala Ser Ile Arg Val Thr Arg Gly Val Pro Gly His Val His
705                      710                      715                      720
Asp Asp Asp Asp Thr Arg Ser Val Ser Thr Ala Phe Ala Ser Gln Val
    725                      730                      735
Gly Gly Asn Tyr Asp
    740

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<210> 32622

<211> 811

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (3)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32622

Leu	Asn	Xaa	Phe	Met	Ala	Ala	Cys	Ala	Gln	Ala	Asp	Ile	Leu	Val	Ser
1				5					10					15	
Leu	Leu	Leu	Ile	Val	Val	Ile	Arg	Ser	Gln	Val	Arg	His	Leu	Gln	Ala
			20					25					30		
Arg	Leu	Leu	Tyr	Met	Gln	His	Phe	Ile	Tyr	Ile	Asp	Asp	Val	Asp	Ser
		35					40					45			
Gly	Glu	Met	Gly	Tyr	Ala	Leu	Ser	Thr	Phe	Glu	Ala	Val	Leu	Thr	Tyr
	50					55					60				
Leu	Val	Thr	Asp	Ser	Ala	Gly	Leu	Arg	Arg	Ala	Ser	Ser	Arg	Asn	Lys
65					70					75				80	
Arg	Leu	Trp	Asn	Ala	Thr	Arg	Ala	Gly	Arg	Val	Gly	Glu	Met	Lys	Ala
			85						90					95	
Ile	Leu	Glu	Pro	Lys	Gly	Asp	His	Ser	Ser	Met	Asp	Asp	Gly	Pro	Asp
			100					105					110		
Glu	Pro	Glu	Gly	Lys	Ser	Val	Phe	Phe	Lys	Thr	Gly	Glu	Asp	Gly	Glu
		115					120					125			
Val	Asp	Glu	Pro	Leu	Gln	Gly	His	Ser	Ile	His	Arg	Arg	Leu	Ser	Arg
	130					135					140				
Ser	Asn	Asn	Glu	Pro	His	Glu	Phe	Asp	Glu	Arg	Pro	Ser	Asp	Val	Pro
145					150					155				160	
Pro	Leu	Ala	His	Val	Phe	Pro	Phe	Gln	Thr	Trp	Glu	Asn	Thr	Ser	Pro
			165						170					175	
Pro	Lys	Glu	Val	Gln	Arg	Pro	Val	Lys	Lys	Val	Ser	Met	Asp	Val	Arg
		180					185					190			
Ser	Ile	Ser	Glu	Ser	Ser	Ala	Thr	Ser	Leu	Leu	Ser	Arg	Thr	Thr	Thr
	195						200					205			
Ile	Glu	Ser	Met	Thr	Ser	Ala	Ile	Glu	Gly	Asp	Ser	Ser	Ile	Glu	Thr
	210					215					220				
Leu	Thr	Lys	Thr	Gln	Asp	Pro	Ala	Gly	Asp	Ser	Ile	Pro	Met	Met	Ala
225					230					235				240	
Val	Asp	Ser	Arg	Gln	Pro	Glu	Ala	Leu	Lys	Tyr	Leu	Leu	Ser	Leu	Glu
			245						250					255	
Glu	Tyr	Tyr	Ser	Leu	Glu	Asp	Ile	Leu	Glu	Asp	Thr	Asn	Thr	Asp	Gly
		260					265					270			
Thr	Thr	Leu	Leu	Ser	Ala	Ala	Val	Gln	Leu	Gly	His	Pro	Glu	Met	Val
		275					280					285			
Glu	Ile	Leu	Leu	Asp	Phe	Leu	Phe	Ser	Ala	Thr	Asp	Glu	Arg	Thr	Ile
	290					295					300				
Ala	Gly	Tyr	Leu	Lys	Lys	Ala	Asp	Met	His	Gly	Arg	Thr	Val	Ala	His
305					310					315				320	
Tyr	Leu	Phe	Ser	Thr	Pro	Ser	Val	Met	Tyr	Arg	Leu	Glu	Arg	Leu	Val
			325						330				335		
Pro	Trp	Arg	Gln	Arg	Asp	Arg	Asn	Gly	Gln	Thr	Pro	Leu	Tyr	Ala	Leu
		340						345					350		
Cys	Arg	Ser	Tyr	Asp	His	Pro	Asp	Tyr	Lys	Ser	Met	Val	Asn	Glu	Ala
	355						360					365			
Leu	Thr	Ala	Ala	Gln	Arg	Ser	Gln	Gly	Asp	Gly	Leu	Pro	Leu	Arg	Leu
	370					375					380				
Asp	Asp	His	Val	Asp	Ser	Lys	Gly	Asn	Thr	Leu	Leu	His	Ile	Val	Gly
385					390					395					400

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<210> 32623
<211> 105
<212> PRT
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<213> A.fumigatus

<400> 32623

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Ser Arg Arg Gln Cys His Pro Thr Gln Ser Ser Ser Lys Leu Ser Ala
1          5          10          15
Ser Leu Thr Ala Ser Asp Ser Ala Ser Asp Ser Ser Ala Ala Gly Ala
          20          25          30
Val Glu His Leu Ser Ser Pro Ser Ser Thr Leu Ala Ile Leu Gly Val
          35          40          45
Ser Ser Ala Glu Pro Cys Ser Pro Ser Ser Leu Leu Ala Ile Val Ser
          50          55          60
Gly Met Leu Arg Ala Ser Ser Ser Ala Arg Leu Thr Leu Asn Glu Gly
65          70          75          80
Thr Pro Val Val Thr Cys Gly Ser Arg Asp Ser Leu Ala Asp Glu Arg
          85          90          95
Ser Val Trp Phe Glu Ile Ser Trp Thr
          100          105

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<210> 32624

<211> 187

<212> PRT

<213> A.fumigatus

<400> 32624

```

Pro Leu Leu Leu Gln Ser Met Phe Ile Gln Gln Lys Asn Arg Met Pro
1          5          10          15
His Lys Thr Asn Ser Arg Gln Ala Asn Leu Gln Asn Leu Thr Thr Ser
          20          25          30
Ser Ser Val Thr Ser Ala Val Asn Ser Ala Leu Glu Ser Ala Gly Val
          35          40          45
Asp Ile Ser Ser Thr Asp Leu Ala Lys Ala Leu Asp Glu Ala Gln Lys
          50          55          60
Gln Leu Lys Ile Lys Asp Phe Tyr Asp Ile Gly Leu Trp Gly Tyr Cys
65          70          75          80
Asp Gly Asp Val Thr Asn Gly Asn Tyr Lys Thr Gln Asn Cys Ser Lys
          85          90          95
Pro Lys Ala Glu Phe Tyr Phe Asn Pro Ile Thr Ile Trp Gln Leu Asn
          100          105          110
Asp Thr Gly Val Glu Asp Val Leu Pro Lys Asp Leu Ser Lys Ala Leu
          115          120          125
Asp Val Tyr Lys Asn Val Ser Lys Trp Met Phe Ile Ala Tyr Ile Val
          130          135          140
Ala Phe Ile Val Thr Ile Val Glu Leu Val Val Gly Leu Phe Ala Ile
145          150          155          160
Cys Ser Arg Trp Gly Ser Cys Val Thr Ser Leu Val Ser Ala Val Arg
          165          170          175
Ser Ser Phe Phe Val Ser Val Tyr Ser Arg His
          180          185

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<210> 32625

<211> 134

<212> PRT

<213> A.fumigatus

<400> 32625

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Val Ser Phe Leu Phe Ile Thr Ala Ala Ser Val Thr Ser Thr Ala Leu

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12850

1		5		10		15									
Phe	Thr	Val	Leu	Lys	Gly	Thr	Phe	Asn	Ser	Ala	Leu	Lys	Asp	Tyr	Gly
		20						25					30		
Ile	Lys	Gly	Tyr	Met	Gly	Lys	Asn	Ile	Tyr	Ile	Ala	Thr	Trp	Leu	Ala
		35					40					45			
Val	Ala	Phe	Ser	Leu	Ala	Gly	Ser	Leu	Phe	Trp	Ile	Ile	Ser	Ser	Cys
		50				55					60				
Cys	Cys	Ser	Gly	Arg	Ser	Pro	Tyr	His	Gly	Ser	Ser	Lys	Thr	Arg	Gly
65					70					75				80	
Val	Thr	Ala	Glu	Lys	Ala	Pro	Tyr	Thr	Tyr	Glu	Pro	Leu	Gly	Pro	Gln
				85					90					95	
Ala	Asn	Gln	Thr	Pro	Ala	Ala	Phe	Gly	Asn	Thr	Ser	Tyr	Pro	Pro	Pro
		100						105					110		
Ala	His	Gly	Thr	His	Val	Pro	Met	Gln	Asn	Met	Arg	Asn	Asn	Ala	Tyr
		115					120					125			
Glu	Pro	Phe	Arg	His	Val										
		130													

<210> 32626

<211> 636

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (294)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32626

Ser	Lys	His	Arg	Gly	Cys	Lys	Ala	Gly	Val	Ala	Thr	Val	Arg	Thr	Val
1				5					10				15		
Ile	Val	Pro	Arg	Ala	Ala	Asn	Ser	Ser	Ser	Gln	Ser	Arg	Ile	Cys	Asn
		20						25				30			
Thr	Tyr	Arg	Ser	Asn	Asp	Glu	Ala	Lys	Asp	His	Thr	Phe	Gln	Glu	Met
		35				40					45				
Ser	Asn	Ser	Thr	Gln	Ala	His	Gly	Thr	Ala	Glu	Ser	Ser	Glu	Val	Asn
		50				55				60					
Ile	Met	Glu	Thr	Gln	Leu	Ser	Gly	Gly	Glu	Trp	Ser	Phe	Pro	Gly	Thr
65				70					75					80	
Thr	Ser	Pro	Asn	Ser	Ala	Gln	Leu	Ser	Asn	Ser	Cys	Gly	Pro	Arg	Asp
			85					90					95		
Arg	Glu	Pro	Ser	Val	Phe	Ile	Thr	Ala	Ser	Pro	Gly	His	Val	Glu	Asp
		100						105				110			
Ser	Ser	Asn	Pro	Phe	Ser	Ser	Tyr	Arg	Glu	Ala	His	Ser	Phe	Met	Gln
		115					120					125			
Thr	Asp	Asp	Gly	Asn	Ala	Thr	Ser	Thr	Gly	Tyr	Pro	Ser	Leu	Thr	Gln
		130				135				140					
Val	Thr	Pro	Thr	Asp	Tyr	Arg	Val	Pro	Gln	Leu	Lys	Arg	Arg	Val	Ser
145				150					155					160	
Glu	Ile	Asp	Met	Glu	Gln	Thr	Ser	Pro	Ala	Lys	Arg	Pro	Lys	Val	Ala
			165					170					175		
Cys	Ser	Glu	Asp	Gly	Asp	Ser	Val	Gln	Glu	Leu	Ala	Phe	Ser	Val	Ile
		180					185					190			
Ser	Arg	Arg	Glu	Thr	Tyr	Ile	Asn	Arg	Ser	Ala	Glu	His	Ala	Glu	Ala
		195					200				205				
Gln	Lys	Val	Tyr	Glu	Lys	Phe	Arg	Ser	Asp	Tyr	Leu	Asp	Tyr	Asp	Gly

210		215		220
Asp Phe Asn His Phe Ala Met Leu Cys Ser Lys Leu Gln Ala Leu Arg				
225		230		240
Ala Lys Gly Gln Phe Arg Arg Ser Phe Leu Trp Asp Asp Phe Val Ile				
	245		250	255
Met His Leu Lys Glu Tyr Lys Arg Tyr Ile Asn Glu Ile Ala Ala Ala				
	260		265	270
Asp Leu Lys Thr Met Glu Tyr Glu Asn Phe Phe Ala Ser Tyr Ile Leu				
	275		280	285
Lys Pro Ser Tyr Lys Xaa Arg Ser Leu Thr Ala Lys Gly Ile Glu Ile				
	290		295	300
Ser Ala Ala Gln His Glu Pro Ser Arg Ala Ala Gly Val Pro Val Ile				
305		310		320
Pro Gln Arg Glu Thr Asn Thr Ser Phe Thr Gly Ser Leu Val Asp Arg				
	325		330	335
Leu Ser Asn Phe His Thr Arg Ser Leu Gly Pro Glu Ser Pro Ala Ser				
	340		345	350
Gln Ser Ala Thr Thr Val Asp Gln Leu Ser Trp Ser Thr Ser Pro Ala				
	355		360	365
Ser Leu Arg Asp Pro Ile Arg Asp Ser Phe Ala Asn Ser Arg Arg Met				
	370		375	380
Ala Lys Glu Thr Leu Glu Met Glu Leu Ala Pro Thr Lys Val Thr Arg				
385		390		400
Ser His Asp Pro Val Pro Asn Ser Pro Ser Glu Ala Val Ala Tyr Arg				
	405		410	415
Leu Glu Arg Pro Thr Ser Arg His Arg Asp Thr Ile Gln Lys Gly Asn				
	420		425	430
Arg Met Val Asp Glu Glu Glu Ala His Asp Thr Glu Val Thr Pro Lys				
	435		440	445
Val Thr Arg Ser Asp His Val His Asp Ile Ser Asn Gln Thr Asp Leu				
	450		455	460
Ser Ser Ala Arg Glu Ser Leu Glu Pro Gln Val Thr Thr Gly Val Pro				
465		470		480
Ser Phe Ser Val Asn Arg Ala Asp Asp Asp Ala Arg Ser Ile Pro Glu				
	485		490	495
Thr Ile Ala Ser Asn Asp Glu Gly Glu Gln Gly Ser Ala Asp Glu Thr				
	500		505	510
Pro Lys Ile Ala Ser Val Glu Leu Gly Glu Asp Arg Cys Ser Thr Ala				
	515		520	525
Pro Ala Ala Asp Glu Ser Asp Ala Glu Ser Asp Ala Val Ser Glu Ala				
	530		535	540
Asp Ser Phe Asp Glu Asp Trp Val Gly Trp His Cys Arg Arg Leu Gln				
545		550		560
Ser Thr Gly Pro Phe Trp Ser Asp Asp Pro Asn Thr Pro Phe Lys Val				
	565		570	575
Leu Ala Arg Ala Asp Ala Asn Val Arg Ser Glu Leu Leu Arg Arg Gly				
	580		585	590
Met Ala Arg Phe Pro Val Asp Glu Arg Gly Val Ile Gln Pro Leu Val				
	595		600	605
Asp Tyr Pro Pro Met Val Ser Leu Arg Asp Leu Leu Asp Arg His Pro				
	610		615	620
Pro Ser Pro Ala Arg Pro Ser Asp Glu Pro Glu Gly				
625		630		635

<210> 32627

<211> 84

<212> PRT

<213> A.fumigatus

<400> 32627

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Tyr Ser Lys His Ala Ser Glu Tyr Tyr Asp Pro Cys Gln Asp Phe Ala
1           5           10           15
Asp Arg Ser Leu Lys Cys Met Lys Arg Asn Ala Phe Asp Lys Asp Met
          20           25           30
Cys Gly Asp Tyr Phe Gln Tyr Val Cys Ser Ile Leu Ser Cys Gln Ser
          35           40           45
Val Leu Val Phe Ser Phe Val Ser Leu Asn Glu Leu Ile Tyr Phe Leu
          50           55           60
Lys Glu Pro Thr Val Thr Val Lys Arg Asn Gly Tyr Val Glu Leu Val
65           70           75           80
Lys Val Ile His

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<210> 32628

<211> 117

<212> PRT

<213> A.fumigatus

<400> 32628

```

Lys His Pro Lys Thr Leu Ala Ile Val Ser Arg Ile Ala Gly Val Asp
1           5           10           15
Leu Val Pro Val Met Asp Tyr Glu Ile Gly His Ile Asn Ile Ser Val
          20           25           30
Gln Ser Glu Glu Asp Lys Ala Glu Phe Leu Ala Ala Val Ala Glu Lys
          35           40           45
Asn Ser Gln Glu Ala Gly Lys Asn Val Ser Asp Ser Ala Trp Glu Gly
          50           55           60
Lys Asp Pro Ile Val Asp Trp His Thr Asp Gly Tyr His Tyr Val Cys
65           70           75           80
Val Val Ile Phe Ser Asp Cys Glu Asp Met Ile Glu Arg Glu Thr Glu
          85           90           95
Leu Arg Arg Gly Asn Asp Glu Lys Ile Lys Val Arg Ser Pro Gln Met
          100          105          110
Val Ser Arg Leu Ser
          115

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<210> 32629

<211> 474

<212> PRT

<213> A.fumigatus

<400> 32629

```

Arg Arg Gly Cys Ala Ser Leu Ser Leu Pro Ala Met Val Pro His Arg
1           5           10           15
Arg Ser Ser Ser Ser Asp His His His Pro Ser Leu His Asp Ser Tyr
          20           25           30
Gln Pro Ser Ser Ser Ser Asp Glu Pro Trp Asp Leu Arg Pro Glu Asn
          35           40           45
Gly Thr Lys Gly Gly Glu Met Arg Glu Leu Asp Gly Asn Gly Asn Ala
          50           55           60
Asp Leu Pro Arg Pro Glu Thr Pro Thr Ser Glu Thr Thr Asp Arg Asp
65           70           75           80

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Ile Thr Thr Asn Gly Asn Glu Ser Gln Thr Leu Arg Leu Gln Arg Pro
      85                      90                      95
Lys Ser Ile Arg Gln Glu Thr Asp Asp Ile Gly Glu Thr Met Asp Asp
      100                    105                    110
Thr Ala Thr Ala Asn Gly Ala Ser Asp Asn Gln Glu Ser His His Gly
      115                    120                    125
Tyr Ala Glu Leu Lys Ala Gly Gln Phe Pro Pro Gln Gln Ala Leu Gly
      130                    135                    140
Leu Val Phe Glu His Thr Asn Asn Gly Asp Asp Ala His Arg Thr Ser
      145                    150                    155                    160
Leu Val Asp Val Leu Gln Gly Ala Glu Ala Gly Ala Ala Leu Asn Gly
      165                    170                    175
Trp Pro Glu Lys Met Ser Pro Ser Lys Gly Gln Asp Met Glu Arg Asp
      180                    185                    190
Arg Glu Lys Val Leu Lys Leu Ser Pro Ala Lys Ile Gln Glu Leu Thr
      195                    200                    205
Ser Ser Pro Gln Ser Ile Pro Tyr Arg Pro Val Ala Ser Glu Thr Glu
      210                    215                    220
Gln Gly Arg Arg Val Leu Ser Asp Gly Ile His Thr Thr Gly Ala Glu
      225                    230                    235                    240
Ser Asp Glu Gly Glu Ser Arg Ala His Ala Gly His Leu Ala Arg Asp
      245                    250                    255
Tyr Gln Ser Gly Asp Gly Leu Gly Leu Gly Ile Ser Ala Ala Ser Lys
      260                    265                    270
Asn Ser Val Ser Asn Gly Arg Thr Arg Pro His Ala Ser Arg Thr Val
      275                    280                    285
Ser Thr Pro Thr Ser Ser Arg Arg Pro Thr Leu Pro Gly Thr Asn Glu
      290                    295                    300
Arg Leu Ala Gln Thr Trp Ala Ser Arg Ser Lys Pro Asp Arg Pro Gly
      305                    310                    315                    320
Ile Gly Leu Gly Asn Ser Arg Leu Glu Gln Glu Ser Lys Arg Gln Leu
      325                    330                    335
Ser Pro Ser Pro Val Ile Thr Glu Pro Ala Leu Pro Ser Pro Met Pro
      340                    345                    350
Pro Ser Ile Pro Leu Pro Pro Leu Ser Val Pro Thr Tyr Leu Gln Leu
      355                    360                    365
Glu Leu Ser Ser Gly Arg Pro Ser Pro Leu Tyr Ile His Arg Ser Val
      370                    375                    380
Thr Asn Asp Phe Pro Tyr Glu Ser Ser Arg Val Lys Leu Glu Arg Leu
      385                    390                    395                    400
Ser Ser Phe Leu Arg Leu Pro Pro Ala Leu Glu Gln Val Leu Trp Phe
      405                    410                    415
Gly Ile Leu Ala Cys Leu Asp Ala Trp Leu Tyr Ser Phe Thr Ile Leu
      420                    425                    430
Pro Leu Arg Phe Cys Lys Ala Leu Tyr Ile Leu Leu Glu Ser Trp Leu
      435                    440                    445
Val Asn Leu Gly Met Glu Phe Arg Phe Val Ser Asp Phe Val Ile Lys
      450                    455                    460
Gly Ile Gly Arg Val Trp Gln Arg Gln Lys
      465                    470

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<210> 32630

<211> 378

<212> PRT

<213> A.fumigatus

<400> 32630

Ser Ala Pro Val Ala Glu Ala Glu Arg Arg Pro Arg Gly Thr Ser Ala
 1 5 10 15
 Glu Arg Gly Pro Arg Thr Lys Ser Gly Glu Ser Arg Arg Arg His Arg
 20 25 30
 Ala Asp Thr His Lys Tyr Gln His Arg Arg Gln Lys Ser Ile Pro Ser
 35 40 45
 Ala Leu Leu Pro Asp Asp Lys Ala Asp Ile Leu Lys Gly Leu Leu Met
 50 55 60
 Ile Ala Thr Cys Cys Val Leu Met Tyr Phe Asp Ala Ser Arg Met Tyr
 65 70 75 80
 His Trp Ile Arg Gly Gln Ala Ala Ile Lys Leu Tyr Val Ile Tyr Asn
 85 90 95
 Val Leu Glu Val Ser Asp Arg Leu Leu Ala Ala Ile Gly Gln Asp Val
 100 105 110
 Leu Glu Cys Leu Phe Ser Arg Glu Ala Leu Glu Arg Arg Pro Asp Gly
 115 120 125
 Arg Ser Lys Val Phe Arg Pro Phe Gly Leu Phe Leu Leu Ala Leu Thr
 130 135 140
 Tyr Thr Val Leu His Ala Thr Ser Leu Phe Tyr Gln Val Met Thr Leu
 145 150 155 160
 Asn Val Ala Val Asn Ser Tyr Ser Asn Ala Leu Ile Thr Leu Leu Leu
 165 170 175
 Ser Asn Gln Phe Val Glu Ile Lys Ser Thr Val Phe Lys Lys Phe Glu
 180 185 190
 Lys Glu Asn Leu Phe Gln Leu Thr Cys Ala Asp Val Val Glu Arg Phe
 195 200 205
 Gln Leu Trp Leu Met Leu Thr Ile Ile Ala Ser Arg Asn Ile Val Glu
 210 215 220
 Thr Gly Ala Phe Asn Phe Val Gly Thr Leu Ser Ser Ser Leu Ser Ser
 225 230 235 240
 Arg Ser Thr Ser Thr Asn Ser Thr Pro Leu Ser Thr Pro Pro Arg Ser
 245 250 255
 Ser Ser Ser Ile Leu Pro Gln Ser Phe Thr Phe Phe Pro Ser Ser Leu
 260 265 270
 Ile Ser Ser Phe Ser His Val Asn Ser Phe Leu Pro Thr Leu Ala Gln
 275 280 285
 Val Leu Gly Pro Phe Leu Val Val Leu Gly Ser Gly Arg Ile Ala Phe
 290 295 300
 Gly Gly Gly Thr Leu Gly Ala Phe Ser Lys Arg Ala Pro Phe Trp Ala
 305 310 315 320
 Gln Phe Asn Pro His Phe Ser Lys Lys Pro Lys Lys Gly Phe Phe Ser
 325 330 335
 Lys Lys Pro Gln Lys Thr Pro Thr Pro Gly Pro Gly Gly Pro Pro Arg
 340 345 350
 Gly Gly Pro Pro Ile Phe Pro Leu Asn Pro Gly Gly Ala Pro Arg Gly
 355 360 365
 Leu Phe Phe Phe Leu Gly Gly Glu Phe
 370 375

<210> 32631

<211> 63

<212> PRT

<213> A.fumigatus

<400> 32631

Glu Arg Leu Ile Cys Ser Gly Arg Tyr Glu Leu Ile Asp Met Gln Gln
 1 5 10 15
 Gly Arg Ile Asn Lys Gly Asp Asn Thr Asn Glu Arg Tyr Ala Leu Ala
 20 25 30
 Leu Leu Asn Arg Thr Gln Ala Glu Asn Ser Thr Leu Ser Thr Phe Ala
 35 40 45
 Glu Asn Gly Ile Leu Glu His Arg Val Leu Gln Phe Val Ser Val
 50 55 60

<210> 32632

<211> 241

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (75), (77)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32632

Trp Glu Gly Pro Phe Leu Pro Glu Ile Ser Ala Arg Val Leu Leu Arg
 1 5 10 15
 Ala Val Pro Pro Asp Trp Gln Ser Asn Met Gln Asn Ser Pro Ser Gly
 20 25 30
 Glu Thr Asp Gln Cys Arg Thr Pro Glu Ile Thr Asn Ala Asp Ile Pro
 35 40 45
 Arg Val Ser Gln Ala Val Ala Ile Gly Ala Ala His Gly Glu Leu Ala
 50 55 60
 Glu Arg Gln Ser Phe Ile Phe Asn Ala Gly Xaa Ile Xaa Gln Gln Ser
 65 70 75 80
 Pro Ala Trp Phe Gln His Gly Gln Pro Arg His Pro Arg Leu Ile Pro
 85 90 95
 Cys Glu Phe Gln Thr Leu Gln Asn Lys Arg Pro Arg Arg Asn Arg Lys
 100 105 110
 Arg Thr Ser Ser Glu Met Gly Gly Asp Ser Asp Ser Asp Ser Ala Asp
 115 120 125
 Gly Gly Ala Lys Arg Thr Pro Ile Arg Val Gly Gln Thr Asp Val Leu
 130 135 140
 Arg Gln Phe Tyr Gln Lys Ala Phe Glu Asn Leu Gln Gln Leu Asn Cys
 145 150 155 160
 Arg Val Ile Ala Lys Ala Phe Val Lys Leu Val Glu Pro Arg Lys Gln
 165 170 175
 Val Asn His Pro Tyr Asn Gly Arg Arg Thr Val Met Gly Gly Pro Cys
 180 185 190
 Gln Lys Leu Asp Pro Glu Leu Thr Lys Pro Lys Trp Trp Pro Thr Gly
 195 200 205
 Val Gln His Lys Glu Pro Asp His Leu Leu Lys His Gly Met Ser Ile
 210 215 220
 Ala Phe Phe Pro Arg Leu Leu Phe Cys Lys Phe Gly Ser Ala Arg Ser
 225 230 235 240
 Arg

<210> 32633

<211> 137

<212> PRT

<213> A.fumigatus

<400> 32633

Ala Glu Arg Ser Val Cys Leu Asp Ser Asn Lys Ser Phe Gly Gly Ile
 1 5 10 15
 Arg Leu Ile Val Asn Asp Pro Thr Gly Gly Asp Thr Val Ile Tyr Val
 20 25 30
 Ser Ser Ile His Leu Pro Glu Gly Ile Glu Pro Ala Val Val Asn Ile
 35 40 45
 Asn Glu Lys Gln Ile Thr Glu Ala Asp Tyr Leu Pro Leu Ser Pro Val
 50 55 60
 Ser Ile Ser Arg Lys Ser Ser Val Glu Ser Gly Leu Ser Ser Leu Ser
 65 70 75 80
 Lys Gly Met Ile Ser Ser Ile Ser Ser Ser Glu Gln Thr Gln Ala Leu
 85 90 95
 His Ala His Ala Glu Val Pro Ser Thr Gly Ser Asn Ser Leu Pro Gly
 100 105 110
 Phe Tyr Ala Pro His Ser Met Ile Trp Ser His Gly Thr Ser Gly Ile
 115 120 125
 Asn Val Pro Phe Asn Met Ser Ser Asn
 130 135

<210> 32634

<211> 157

<212> PRT

<213> A.fumigatus

<400> 32634

Ala Arg Tyr Lys Glu Pro Cys Ile Gln Ile Phe Ser Leu Ser Gln Ser
 1 5 10 15
 Asp Arg Gln Arg Arg Gln Asp Glu Met Ala Glu Pro Asp His Lys Leu
 20 25 30
 Ser Leu Gln Lys Pro Ser Glu Asp Ala Pro Glu Asp Ile Gly Gln Gly
 35 40 45
 Ile Asp Ile Asp Ile Asn Ile Asp Ile Asp Leu Ala Asn Val Val Leu
 50 55 60
 Asp Pro Gln Lys Glu Arg Lys Leu Leu Leu Lys Leu Asp Leu Ala Phe
 65 70 75 80
 Val Pro Ile Ile Met Val Thr Tyr Leu Ser Cys Phe Leu Asp Arg Thr
 85 90 95
 Asn Ile Gly Met Tyr Pro Arg Ala Ser Pro Val Lys Pro Ala Ile Leu
 100 105 110
 Thr Leu Ala Arg Lys Cys Gln Ser Gly Arg His Ala Arg Ser His Arg
 115 120 125
 Gly Val Ala Gln Arg Ile Leu His Arg Arg Leu His Leu Leu Arg Asp
 130 135 140
 Leu Arg Ala Pro Arg Ser Pro Leu Gly Arg Ala His Glu
 145 150 155

<210> 32635

<211> 222

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (58), (69)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32635

Gln Arg Val Pro Pro Gly Val Ala Pro Ile Arg Leu Gly His Leu Leu
 1 5 10 15
 Tyr Leu Phe His Ile Gly Gln Gln Ile Arg Pro His Arg Asn His His
 20 25 30
 Ala Gly Val Gly Glu His Ala Arg Arg His Glu Arg Asn Cys Arg Pro
 35 40 45
 Val His Gly Asp Gln Ala Ala Gly Gln Xaa Val Phe Gly Arg Gln Ala
 50 55 60
 Ser Leu Thr Gln Xaa Ile Phe Glu Thr Glu Arg Ala Ala Glu Gln Glu
 65 70 75 80
 Ala Tyr Val Val Gly Gly Val His Leu Leu Glu Ile Leu Ser Gly Cys
 85 90 95
 Asp Val Ala Ala Gly Leu Val Asp Ala Val Leu Arg Glu Val Gly Ala
 100 105 110
 Glu Val Glu Ile Arg Val Gly Asp Ala Gly Cys Trp Gly His Gly Val
 115 120 125
 Arg Val Ala Leu Gly Asp Asp Ala Glu Gln Arg Ala Gly Asp Gly Val
 130 135 140
 Ala Gln Ala Glu Gly Val Glu Val Trp Gly Val Ala Gly Gly Glu Asp
 145 150 155 160
 Gln Glu Val Gly Leu Glu Glu Ala Arg Gly Glu Ala Arg Gly Val Cys
 165 170 175
 Asp Glu Val Leu Ala Gly Glu Glu Ala Gly Gly Val Arg Ile Ala Leu
 180 185 190
 Val Val Ala Gly Val Ala Gly Val Ala Gly Val Ala Ala Gly His Met
 195 200 205
 Ala Thr Ala Ala Ala Ala Gly His Ala Val Tyr Leu Ala Ser
 210 215 220

<210> 32636

<211> 321

<212> PRT

<213> A.fumigatus

<400> 32636

His Trp Leu Gly Asn Val Lys Val Ala Gly Met Pro Glu Ala Ile Gly
 1 5 10 15
 Ala Ser Pro Ser Glu Phe Ser Thr Ala Val Ser Ile Phe Tyr Val Thr
 20 25 30
 Tyr Val Leu Leu Glu Ala Pro Trp Ala Val Leu Met Asn Lys Leu Thr
 35 40 45
 Pro Arg Asn Ile Leu Thr Gly Leu Cys Ile Val Trp Ser Val Thr Thr
 50 55 60
 Val Phe Thr Gly Phe Val Thr Asn Val Pro Ala Leu Tyr Ala Thr Arg
 65 70 75 80
 Leu Ile Leu Gly Ala Cys Glu Ala Gly Leu Phe Pro Cys Leu Asn Leu
 85 90 95
 Tyr Leu Thr Met Val Tyr Arg Arg Glu Glu Gln Ala Lys Arg Val Ser
 100 105 110
 Tyr Leu Met Ser Cys Ala Ala Ile Ser Gly Ala Phe Gly Gly Leu Leu
 115 120 125
 Ala Tyr Gly Leu Leu His Met Asp Gly Ile Gly Gly Lys Ala Gly Trp

12858

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      130              135              140
Arg Tyr Leu Thr Ser Phe Thr Thr Leu Gly Val Val Trp Ser Thr Ala
145              150              155              160
Asn Val Arg Ile Arg Trp Val Tyr Ile Ile Glu Gly Leu Phe Ser Leu
      165              170              175
Ile Cys Ala Val Leu Ile Trp Phe Gly Leu Pro Asn Asp Pro Ser Asn
      180              185              190
Ala Tyr Phe Leu Thr Ala Asp Glu Lys His Met Met Arg Val Arg Asn
      195              200              205
Ala Gln Arg Ala Ala Tyr Met Gly Ser Ser Gln Phe Ser Trp Ala Glu
      210              215              220
Met Arg Ile Ala Ile Thr Asp Pro Lys Leu Ala Phe Ser Ala Ile Thr
225              230              235              240
Gln Phe Cys Gln Asp Ile Leu Leu Tyr Gly Phe Ser Thr Phe Leu Pro
      245              250              255
Thr Ile Leu Lys Gly Ile Gly Tyr Asp Ser Leu Met Ser Asn Ile Leu
      260              265              270
Thr Val Pro Val Tyr Phe Trp Ala Ala Ile Val Phe Val Ser Val Pro
      275              280              285
Gly Pro Arg Ile Ala Ile Ile Ala Phe Ala Leu Phe Leu Ala Gly Ser
      290              295              300
Gln Met Phe Ser Gly Leu Val Gly Val His Ser Ala Pro Gly Arg Leu
305              310              315              320
Glu

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<210> 32637

<211> 149

<212> PRT

<213> A.fumigatus

<400> 32637

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Ser Leu Leu Arg Cys Phe Leu Leu Val Pro Lys Cys Phe Arg Gly Trp
1      5      10      15
Trp Gly Tyr Ile Leu Leu Leu Ala Val Ser Asn Asp Ala Val Lys Tyr
      20      25      30
Phe Ala Thr Tyr Leu Ile Gly Ile Ala Thr Tyr Thr Gly Val Gly Leu
      35      40      45
Asn Ile Ala Trp Leu Asn Val Asn Val Ala Pro His Tyr Arg Arg Ala
      50      55      60
Leu Glu Ile Gly Val Gln Gln Thr Ile Gly Asn Leu Ala Gly Ile Val
      65      70      75      80
Ser Gly Gln Ile Tyr Arg Thr Ser Pro Tyr Val Leu Gly Asn Ser Phe
      85      90      95
Ser Leu Gly Ala Leu Val Val Ala Gln Gly Val Val Leu Gly His Ala
      100      105      110
Val Tyr Leu Arg Arg Glu Asn His Leu Lys Val Lys Ile Gly Ala Gly
      115      120      125
Glu Lys Glu Asp Thr Arg Arg Val Arg Thr Gly Asp Lys Ala Leu Asp
      130      135      140
Phe Val Tyr His Tyr
145

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<210> 32638

<211> 305

<212> PRT

<213> A.fumigatus

<400> 32638

Ala Asn Thr Leu Thr Lys Arg Ala Asp Trp Pro Ser Ser Arg Gly Thr
 1 5 10 15
 Phe Pro Thr Ile Ser Ile Lys Thr Pro Asn Pro Thr Pro Pro Thr Thr
 20 25 30
 Ser Arg Arg Glu Asn Ser Thr Thr Asp Ser Arg Asn Gly Lys Arg Ser
 35 40 45
 Ser Pro Ala Phe Ser Thr Gln Pro Ala Asn Pro Trp Pro Ile Ser Ser
 50 55 60
 His Ser Gly Lys Ser Ala Phe Pro Leu Gln Pro Phe Arg Arg Gln Pro
 65 70 75 80
 Thr Asp Arg Ser Glu Asp Arg Met Arg Tyr His Ala Ile Met Ile Ser
 85 90 95
 Leu Ala Arg Asp Gly Phe Gly Val His Thr Phe Phe Ser Ala Glu Asp
 100 105 110
 Gly Lys Ser Gln Thr Thr Val Pro Ser Ser Gln Leu Pro Ala His
 115 120 125
 Leu Arg Glu Lys Ala Thr Glu Gln Ser Leu Ala Ser Ala Arg Ala Ile
 130 135 140
 Ala Ala Leu Val Arg Val His Arg Glu Glu Tyr Gly Ile Gly Arg Thr
 145 150 155 160
 His Pro Phe Thr Thr Tyr Ala Ile Met Val Ala Leu Phe Thr Ile Leu
 165 170 175
 Asp His Ala Ala Phe Asp Ile Leu Asp Thr Asp Phe Leu Ser Leu Thr
 180 185 190
 Ser Ala Phe Ser Val Ile Ala Cys Arg Ser Gln Val Gly Arg Asn Leu
 195 200 205
 Phe His Ile Phe Arg Gln Ser Val Arg Ala Gln Asp Gln Glu Gly Arg
 210 215 220
 Val Leu Gln Ser Asp Gln Val Pro Glu Glu Ile Lys Glu Leu Phe Gly
 225 230 235 240
 Arg Tyr Pro Arg Ser Ser Lys Pro Asp Lys Trp Asp Asp Tyr Glu Asp
 245 250 255
 Gly Leu Asp Lys Leu Gly Thr Ala Glu Gly Arg Asp Val Ala Ala Ala
 260 265 270
 Asp Gly Met Arg Met Arg Asn His Ala Ala Ser Gly Val Arg Asp Met
 275 280 285
 Leu Ser Lys Tyr Glu Ser Leu Ser Leu Gly Gln Gln Ser Gln Asp Arg
 290 295 300
 Lys
 305

<210> 32639

<211> 142

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (141)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32639

Pro Tyr Asp Gln Gln Gln His Gln Gln His Gln Gln His Gln Gln Gln

12860

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1           5           10           15
Pro Lys Gln Cys Val His His Pro Pro Pro Arg Pro Pro Lys Pro His
                20                25                30
His Lys His Leu Gly Pro Leu Pro Gly Leu Pro Pro Ser Gln Pro Pro
                35                40                45
Asp Pro Pro Leu Pro Leu Arg Pro Arg Leu Pro Arg Pro Leu Pro Ala
                50                55                60
Gln Pro Arg Pro Leu Pro Ser Ala Arg His His Pro Pro Gly Gln Pro
65                70                75                80
Ser His Arg Val Pro Ser Ser Leu His His Gln Pro Gly Phe Arg Pro
                85                90                95
Pro His Arg Leu Pro Ala Val Pro Arg Leu Pro Val Arg Pro Pro His
                100                105                110
Arg Ile Gln Lys Gly Ser Gln Gly Gly Val His Pro Arg Pro Arg Arg
                115                120                125
Leu Pro Ala Arg Leu Leu Val Gln Phe Arg Arg Cys Xaa Val
                130                135                140

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<210> 32640

<211> 219

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (151), (162)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32640

```

Ile Asp Ser Met Ala Ser Ser Ser Ser Ser Ser His Met Thr Ser Ser
1           5           10           15
Asn Thr Ser Asn Thr Ser Asn Thr Ser Asn Asn Gln Ser Asn Ala Tyr
                20                25                30
Thr Thr Arg Leu Leu Ala Arg Gln Asn Leu Ile Thr Asn Thr Ser Gly
                35                40                45
Leu Ser Pro Gly Phe Leu Gln Ala Asn Leu Leu Ile Leu Pro Ser Arg
                50                55                60
Tyr Ala Pro Asp Phe His Ala Leu Cys Leu Arg Asn Pro Val Pro Cys
65                70                75                80
Pro Leu Leu Gly Ile Ile Pro Gln Gly Asn Pro His Thr Val Ser Pro
                85                90                95
Ala Ala Cys Ile Thr Asn Pro Asp Phe Asp Leu Arg Thr Asp Phe Pro
                100                105                110
Gln Tyr Arg Val Tyr Gln Ser Gly Arg His Ile Ala Ser Arg Lys Asp
                115                120                125
Leu Lys Glu Val Tyr Thr Pro Asp His Val Gly Phe Leu Leu Gly Cys
                130                135                140
Ser Phe Ser Phe Glu Asp Xaa Leu Cys Glu Ala Gly Leu Pro Pro Lys
145                150                155                160
His Xaa Leu Thr Gly Arg Leu Val Ala Met Tyr Arg Thr Thr Val Pro
                165                170                175
Leu Met Pro Ala Gly Val Phe Thr Asp Ala Cys Met Val Val Ser Met
                180                185                190
Arg Pro Tyr Leu Leu Ala Asp Val Glu Gln Val Gln Gln Val Thr Lys
                195                200                205
Pro Tyr Gly Gly Asp Pro Trp Gly Asn Pro Leu

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210

215

<210> 32641
 <211> 78
 <212> PRT
 <213> A.fumigatus

<400> 32641
 Ser Arg Ser Thr Ala Arg Ser Ala Leu Thr Leu Pro Thr Pro Leu Val
 1 5 10 15
 Ser Trp Thr Ser Ser Val Ser Arg Arg Pro Ala Arg Thr Ser Val Ser
 20 25 30
 Ser Thr Thr Pro Arg Val Ala Ser Pro Ser Thr Val Ser Arg Leu Arg
 35 40 45
 Arg Pro Ser Thr Ser Ser Ala Arg Ser Arg Glu Phe Ser Leu Ala Arg
 50 55 60
 Ala Gly Ser His Ser Trp Leu Arg Thr Met Arg Glu Arg Glu
 65 70 75

<210> 32642
 <211> 155
 <212> PRT
 <213> A.fumigatus

<400> 32642
 Ile Glu Glu Pro Glu Thr Asp His Glu Leu Asp Phe Tyr Ser Lys Lys
 1 5 10 15
 His Gln Lys Arg Leu Ser Ala Pro Ser His Trp Leu Leu Asp Lys Met
 20 25 30
 Ser Gly Thr Tyr Ala Pro Lys Ala Ser Pro Gly Pro His Lys Leu Arg
 35 40 45
 Asp Cys Leu Pro Leu Ile Val Phe Ile Arg Asn Arg Leu Lys Tyr Ala
 50 55 60
 Leu Asn Gly Arg Glu Thr Lys Ala Ile Met Met Gln Arg Leu Ile Lys
 65 70 75 80
 Val Asp Gly Lys Val Arg Thr Asp Pro Thr Tyr Pro Ala Gly Phe Met
 85 90 95
 Asp Val Ile Ser Ile Glu Lys Thr Gly Glu Asn Phe Arg Leu Ile Tyr
 100 105 110
 Asp Thr Lys Gly Arg Phe Thr Val His Arg Ile Gln Ala Glu Glu Ala
 115 120 125
 Glu Tyr Lys Leu Cys Lys Val Lys Arg Val Gln Leu Gly Lys Gly Gly
 130 135 140
 Ile Pro Phe Leu Val Thr His Asp Ala Arg Thr
 145 150 155

<210> 32643
 <211> 121
 <212> PRT
 <213> A.fumigatus

<400> 32643
 Thr Phe Gly Ala Val Cys Ala Asp Arg Asn Val Ser Ser Ile Arg Tyr
 1 5 10 15
 Pro Asp Pro Ala Ile Lys Val Asn Asp Thr Val Lys Val Asp Ile Ala
 20 25 30

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Thr Gly Lys Ile Thr Asp Phe Val Arg Phe Asp Thr Gly Val Val Cys
      35                      40                      45
Met Val Thr Gly Gly Arg Asn Met Gly Arg Val Gly Ile Ile Thr His
      50                      55                      60
Arg Glu Arg His Asp Gly Gly Phe Asn Ile Val His Ile Lys Asp Ala
65      70      75      80
Ile Asp Asn Ser Phe Ala Thr Arg Glu Ser Asn Val Phe Val Ile Gly
      85                      90                      95
Gln Glu Lys Pro Trp Ile Ser Leu Pro Lys Gly Lys Gly Val Lys Val
      100      105      110
Arg Asn His Thr Pro Lys Ile Ile Ile
      115                      120

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<210> 32644
 <211> 155
 <212> PRT
 <213> A.fumigatus

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<400> 32644
Pro Phe Arg Ile Ser Phe Ile Pro Leu Asp Arg Leu Ile Ser His Ser
1      5      10      15
His Thr Ser Arg Arg Ser Met Met Thr Pro Met Asp Val Met Glu Ala
      20      25      30
Glu Asn Ser Arg Asp Glu Glu His Asp Ile His Glu Asp Val Ile Asp
      35      40      45
Val Glu Glu Asp Glu Glu Glu Asn Leu Ser Glu Leu Asp Pro Ser Gln
      50      55      60
Lys Glu Tyr Leu Glu Tyr Gln Arg Arg Leu Asp Asp Phe Leu Ser Pro
65      70      75      80
Leu Val Leu Asp Glu Ala Val Leu Tyr Arg Leu Ala Arg Arg Phe Ser
      85      90      95
Ser Thr Tyr Arg His Leu Ala Leu His Ser Asp Gln Gln Phe Leu Pro
      100      105      110
Thr Pro Val Thr Arg Leu Pro Thr Gly Leu Glu Thr Gly Arg Tyr Leu
      115      120      125
Ala Ile Asp Val Gly Gly Ser Asn Leu Arg Val Ala Phe Ile Val Phe
      130      135      140
Thr Thr Gly Met Pro Gly Ser Ala Val Lys Val
145      150      155

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<210> 32645
 <211> 620
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (608)
 <223> Identity of amino acid sequences at the above locations are unknown.

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<400> 32645
Met Ala Leu Asp Glu Glu Leu Leu His Leu His Leu Gly Asp Gly Gln
1      5      10      15
Gln Arg Pro Tyr Lys Leu Ser Thr Val Ala Thr Pro Pro Asp Glu Glu
      20      25      30
Gln Leu Asn Leu Gln Arg Ser Asp Lys Asp Thr Ala Glu Pro Ser Gln

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35					40					45					
Thr	Pro	Arg	Cys	Asp	Thr	Pro	Arg	Glu	Ala	His	Thr	Glu	Ile	Val	Gln
50					55					60					
Asn	Asp	Thr	Ser	Ser	Leu	Asn	Arg	Ile	Phe	Arg	Phe	Thr	Pro	Val	Pro
65					70					75					80
Thr	Leu	Ile	Leu	Asp	Ser	Ser	Leu	Arg	Val	Ile	Glu	Val	Ser	Glu	Ser
				85					90					95	
His	Leu	Ala	Phe	Cys	Gly	Lys	Ser	Arg	Asp	Phe	Val	Leu	Gly	Ala	Ser
			100					105					110		
Ile	Tyr	Glu	Leu	Pro	Leu	Ala	Thr	Ile	Pro	Ala	Pro	Asp	Ile	Ala	Thr
		115					120					125			
Leu	Asn	Gly	Ala	Leu	His	Val	Ala	Ile	Thr	Thr	Arg	Ala	Val	Gln	Val
	130					135					140				
Val	Glu	Thr	Ile	His	Leu	Pro	Arg	Ile	Ser	Ser	Tyr	Phe	Ser	Leu	Lys
145					150					155					160
Ile	Thr	Pro	Ile	Phe	Gln	Gly	Ser	Thr	Leu	Leu	Asn	Leu	Val	Leu	Glu
			165					170						175	
Ala	His	Asn	Val	Thr	Arg	Thr	His	Thr	Glu	Ser	Leu	His	Asn	Ala	Tyr
			180					185					190		
Ile	Asn	Glu	Thr	Tyr	Lys	Ile	Leu	Val	Asp	Thr	Ile	Arg	Asp	Tyr	Ala
		195					200					205			
Ile	Phe	Met	Leu	Asp	Ala	Arg	Gly	Asn	Ile	Val	Thr	Trp	Asn	Ser	Gly
	210					215					220				
Ala	Ala	Ile	Ile	Lys	Gly	Tyr	Lys	Ala	Asp	Glu	Ile	Ile	Gly	Arg	His
225					230					235					240
Phe	Ser	Val	Phe	Tyr	Gly	Pro	Glu	Asp	Arg	Leu	Ala	Asp	Lys	Pro	Gly
			245					250						255	
Lys	Glu	Leu	Glu	Leu	Cys	Leu	Arg	Asp	Gly	Lys	Val	Glu	Asp	Glu	Gly
		260					265					270			
Trp	Arg	Tyr	Arg	Gln	Asp	Gly	Leu	Arg	Phe	Trp	Ala	Asn	Val	Met	Ile
	275					280						285			
Thr	Pro	Ile	Phe	Ser	Phe	Gly	Arg	His	Val	Gly	Phe	Val	Lys	Ile	Thr
	290					295					300				
Arg	Asp	Leu	Thr	Glu	Arg	Lys	Ala	Ala	Glu	Ala	Arg	Met	Val	Ala	Ala
305					310					315					320
Phe	Glu	Glu	Ser	Ser	Lys	Met	Lys	Asn	Asp	Phe	Leu	Ala	Asn	Met	Ser
			325					330						335	
His	Glu	Ile	Arg	Thr	Pro	Met	Asn	Gly	Met	His	Leu	Ala	Leu	Thr	Met
		340						345					350		
Leu	Gly	Ser	Thr	Glu	Leu	Asp	Thr	Gln	Gln	Arg	Glu	Tyr	Thr	Ser	Ile
	355					360					365				
Ile	Glu	Asp	Ser	Met	Ser	Ile	Leu	Leu	Gln	Val	Ile	Asn	Asp	Val	Leu
	370					375					380				
Asp	Tyr	Ser	Lys	Leu	Ser	Ser	Gly	Thr	Phe	Ser	Leu	Asn	Thr	Asp	Val
385					390					395					400
Leu	Asn	Val	Glu	Asn	Ile	Val	Gly	Ala	Val	Val	Arg	Asn	Cys	Lys	Ala
			405					410						415	
Leu	Asn	Pro	Ala	Val	Glu	Ile	Ser	Cys	Met	Pro	Pro	Gly	Phe	Pro	
		420					425					430			
Asn	Leu	Leu	Arg	Gly	Asp	Pro	Leu	Arg	Tyr	Arg	Gln	Val	Ile	Gln	Asn
	435					440					445				
Leu	Val	Gly	Asn	Ala	Met	Lys	Phe	Thr	Glu	Lys	Gly	His	Val	Lys	Val
	450					455					460				
Thr	His	Arg	Phe	Ala	Val	Glu	Glu	His	Asp	Ala	Asn	Arg	Tyr	Ile	Ile
465					470					475					480
Thr	Thr	Glu	Val	Thr	Asp	Thr	Gly	Ile	Gly	Val	Pro	Glu	Asp	Ala	Ile

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<210> 32646
<211> 301
<212> PRT
<213> A.fumigatus
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<400>	32646																
Ile	Gly	Phe	Val	Thr	Asn	Arg	Arg	Met	Leu	Leu	Ser	Ser	Ser	Asp	Ala		
1				5					10					15			
Phe	Gly	Arg	Leu	Met	Phe	Ser	Tyr	Lys	Glu	Ile	Ser	Glu	Leu	Ala	Gly		
			20					25					30				
His	Thr	Ala	Arg	Val	Ser	Ser	Leu	Leu	Glu	Val	Met	Glu	Asp	Leu	Gln		
		35					40					45					
Ala	Gly	Leu	Phe	Glu	Lys	Lys	Leu	Val	Ser	Ser	Ala	Ser	Thr	Glu	Glu		
	50					55					60						
Asn	Ala	Ala	Val	Leu	Ser	Gly	Arg	Gly	Glu	Val	Glu	Glu	Ala	Asp	Ser		
65					70					75					80		
Ile	Glu	Phe	Thr	Asp	Val	Pro	Ile	Val	Ser	Pro	Asn	Gly	Asp	Val	Leu		
				85					90					95			
Val	Arg	Lys	Leu	Ser	Phe	Thr	Val	His	Pro	Gly	Asp	His	Leu	Leu	Ile		
			100					105					110				
Val	Gly	Pro	Asn	Gly	Cys	Gly	Lys	Ser	Ser	Leu	Phe	Arg	Ile	Leu	Gly		
		115					120					125					
Gly	Leu	Trp	Pro	Val	Tyr	Gly	Gly	Lys	Val	Lys	Lys	Pro	Arg	Phe	Asp		
	130					135					140						
Glu	Ile	Phe	Tyr	Ile	Pro	Gln	Arg	Pro	Tyr	Leu	Ser	Arg	Gly	Thr	Leu		
145					150					155					160		
Arg	Gln	Gln	Val	Ile	Tyr	Pro	Asp	Gly	Val	Arg	Glu	Met	Arg	Ala	Lys		
				165					170					175			
Gly	Val	Thr	Asp	Ala	Asp	Leu	Tyr	Glu	Ile	Leu	Ser	Ile	Val	Glu	Ile		
			180					185					190				
Ala	Ser	Val	Val	Asp	Arg	Pro	Gly	Gly	Trp	Asp	Ala	Glu	Glu	Glu	Trp		
		195					200					205					
Arg	Asp	Val	Leu	Ser	Gly	Gly	Leu	Gln	Gln	Arg	Ile	Ala	Met	Ala	Arg		
	210				215						220						
Leu	Phe	Tyr	His	Arg	Pro	Lys	Phe	Ala	Ile	Leu	Asp	Glu	Cys	Thr	Ser		
225					230					235					240		
Ser	Val	Thr	Leu	Glu	Ile	Glu	Arg	Val	Met	Tyr	Glu	Asn	Ala	Lys	Lys		
				245					250					255			

12865

Leu Gly Thr Thr Leu Met Thr Val Ser His Arg Arg Ser Leu Trp Lys
 260 265 270
 Tyr His Gln Lys Ile Leu Gln Phe Asp Gly Gln Gly Gly Tyr Phe Phe
 275 280 285
 Thr Gly Leu Asp Trp Glu Arg Arg Leu Gln Leu Glu Glu
 290 295 300

<210> 32647

<211> 138

<212> PRT

<213> A.fumigatus

<400> 32647

Val Arg Asp Leu Pro Pro Arg Gly Glu Asp Phe Val Ile Lys Tyr Phe
 1 5 10 15
 Trp Gly Ala Leu Gly Leu Ile Leu Cys Ser Met Pro Val Phe Phe Arg
 20 25 30
 Ile Pro Gly Gln Ile Thr Gln Thr Met Ala Asp Arg Thr Glu Ser Glu
 35 40 45
 Phe Trp Pro Thr Asn Ile Leu Pro Pro Ser Lys Leu Thr Gly Ile Asn
 50 55 60
 Arg Leu Cys His Lys Pro Gln Asn Ala Thr Val Leu Ile Gly Arg Leu
 65 70 75 80
 Trp Pro Ser His Val Leu Leu Gln Arg Asp Leu Arg Thr Cys Arg Ser
 85 90 95
 His Ser Thr Ser Leu Ile Ser Ser Arg Gly His Gly Gly Pro Ala Ser
 100 105 110
 Arg Thr Phe Arg Glu Glu Ala Arg Leu Leu Gly Ile His Arg Gly Lys
 115 120 125
 Arg Arg Arg Ser Val Arg Pro Arg Arg Gly
 130 135

<210> 32648

<211> 62

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (37)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32648

Trp Pro Gly Arg Leu Phe Leu Tyr Arg Ala Gly Leu Gly Ala Gln Thr
 1 5 10 15
 Ala Val Gly Arg Val Ser Leu Cys Asp Asn Leu Phe Leu Ser Tyr Val
 20 25 30
 Met Leu Thr Arg Xaa Val Val Thr Ala Arg Lys Lys Asn Trp Thr Phe
 35 40 45
 Ile Phe Val Gln Phe Arg Ser Tyr Ser Val Val Trp Arg Ser
 50 55 60

<210> 32649

<211> 170

<212> PRT

<213> A.fumigatus

<400> 32649

Leu Ile Arg Ser Ala Tyr Leu Gly Glu Glu Thr Ser Asp Gly Ala Asn
 1 5 10 15
 Val Ser Leu Thr Arg Ser Thr Leu Phe Asp Met Leu Leu Thr Gly Ala
 20 25 30
 Leu Gln Ile Glu Ile Thr Arg Glu Ile Gly Glu Gln Asn Ile Phe Leu
 35 40 45
 Phe Gly Thr Leu Ala Glu Asp Val Glu Glu Leu Arg His Arg His Phe
 50 55 60
 Tyr Gly Asp Phe Gln Leu Asp Pro Gln Leu Ser Lys Val Phe Glu Ala
 65 70 75 80
 Ile Arg Ser Asp Met Phe Gly Asp Ala Ser Asn Phe Ser Ala Leu Met
 85 90 95
 Ser Ala Ile Ala Glu His Gly Asp Tyr Tyr Leu Val Ser Asp Asp Phe
 100 105 110
 Asn Ser Tyr Ile Thr Thr Gln Glu Ile Val Asp Glu Ala Phe Lys Asn
 115 120 125
 Gln Asp Glu Trp Ile Ala Lys Ser Ile Thr Ser Val Ala Arg Met Gly
 130 135 140
 Phe Phe Ser Thr Asp Arg Val Ile Ser Glu Tyr Ala Asp Ser Ile Trp
 145 150 155 160
 Asn Ile Glu Pro Leu Glu Ile Arg Asp Asp
 165 170

<210> 32650

<211> 226

<212> PRT

<213> A.fumigatus

<400> 32650

Phe Ala Asp Gly Asn Ser Leu His Ser Val Phe Ala Lys Met Ser Val
 1 5 10 15
 Ser Pro Thr Ala Thr Ser Ser Pro Cys Pro Ser Pro Trp Thr Cys Pro
 20 25 30
 Arg Pro Leu Ser Met Lys Ala Ser Ser Ser Pro Ala Pro Ala Ser Pro
 35 40 45
 Cys Glu Thr Ser Glu Thr Ile Ala Ile Trp Pro Ser Ser Pro Leu Thr
 50 55 60
 Ile Ser Thr Ala Leu Thr Ser Glu Phe Ser Cys Ser Phe Gly Phe Trp
 65 70 75 80
 Arg Ser Cys Pro Val Phe Gln Arg Glu Arg Ser Leu Ile Ala Leu Arg
 85 90 95
 Cys Leu Ser Gly Thr Thr Asp Ala Thr Leu Gln Leu Thr Thr Pro Ile
 100 105 110
 Ala Pro Ile Asn Gln Thr Ser Val Arg Thr Val Gly Leu Ala Asp Trp
 115 120 125
 Phe Ser Leu Arg Arg Ala Lys Glu Ala Lys Leu Val Phe Gly Gly Asp
 130 135 140
 Glu Glu His Pro Ala Ile Lys Tyr Leu Tyr Asn Lys Val Gln Glu Phe
 145 150 155 160
 Tyr Val Gly Gly Lys Ile Glu Ala Ile Asn Lys Leu Asn His Tyr Asp
 165 170 175
 Tyr Val Ala Leu Arg Cys Thr Ser Asp Asn Arg Ser Pro Glu Leu Gln
 180 185 190
 Thr Arg Asn Asp Ala Asn Arg Pro Arg Leu Tyr Arg His Ser Arg Gly


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<210> 32651
<211> 379
<212> PRT
<213> A.fumigatus
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<400>	32651																
Leu	Val	Ser	Arg	Asn	Pro	Met	His	Arg	Ala	His	Arg	Glu	Leu	Thr	Val		
1				5					10					15			
Arg	Ala	Ala	Arg	Ala	Arg	Gln	Ala	Asn	Val	Leu	Ile	His	Pro	Val	Val		
			20					25					30				
Gly	Leu	Thr	Lys	Pro	Gly	Asp	Ile	Asp	His	Phe	Thr	Arg	Val	Arg	Ala		
		35				40						45					
Tyr	Gln	Ala	Leu	Leu	Pro	Arg	Tyr	Pro	Asn	Gly	Met	Ala	Val	Leu	Gly		
	50					55					60						
Leu	Leu	Gly	Leu	Ala	Met	Arg	Met	Gly	Gly	Pro	Arg	Glu	Ala	Ile	Trp		
65					70						75				80		
His	Ala	Ile	Ile	Arg	Lys	Asn	His	Gly	Ala	Thr	His	Phe	Ile	Val	Gly		
				85					90					95			
Arg	Asp	His	Ala	Gly	Pro	Gly	Lys	Asn	Ser	Lys	Gly	Gln	Glu	Phe	Tyr		
			100					105					110				
Gly	Pro	Tyr	Asp	Ala	Gln	His	Ala	Val	Glu	Lys	Tyr	Arg	Glu	Glu	Leu		
		115					120					125					
Gly	Ile	Glu	Val	Val	Glu	Phe	Gln	Gln	Val	Thr	Tyr	Leu	Pro	Asp	Thr		
	130					135						140					
Asp	Glu	Tyr	Lys	Pro	Lys	Asp	Glu	Val	Pro	Pro	Gly	Val	Lys	Thr	Leu		
145					150					155					160		
Asp	Ile	Ser	Gly	Thr	Glu	Leu	Arg	Asn	Arg	Leu	Arg	Thr	Gly	Ala	Pro		
			165					170					175				
Ile	Pro	Glu	Trp	Phe	Ser	Tyr	Pro	Glu	Val	Val	Lys	Ile	Leu	Arg	Glu		
		180						185					190				
Ser	Ser	Pro	Pro	Arg	His	Thr	Gln	Gly	Phe	Thr	Ile	Phe	Leu	Thr	Gly		
	195						200					205					
Tyr	Met	Asn	Ser	Gly	Lys	Asp	Ala	Ile	Ala	Arg	Ala	Leu	Gln	Val	Thr		
	210					215					220						
Leu	Asn	Gln	Gln	Gly	Gly	Arg	Ser	Val	Ser	Leu	Leu	Leu	Gly	Asp	Thr		
225				230						235				240			
Val	Arg	His	Glu	Leu	Ser	Ser	Glu	Leu	Gly	Phe	Ser	Arg	Glu	Asp	Arg		
			245						250				255				
His	Thr	Asn	Ile	Gln	Arg	Ile	Ala	Phe	Val	Ala	Gly	Glu	Leu	Thr	Arg		
		260						265					270				
Ala	Gly	Ala	Ala	Val	Ile	Ala	Ser	Pro	Ile	Ala	Pro	Tyr	Glu	Glu	Ser		
	275						280					285					
Arg	Asn	Ala	Ala	Arg	Asp	Ala	Val	Thr	Gln	Ala	Gly	Gly	Asn	Phe	Phe		
	290				295						300						
Leu	Val	His	Val	Ala	Thr	Pro											

12868

Asp Val Ser Lys Gln Thr Val Arg Ser Ile Val His Glu Ile Ile Leu
 355 360 365
 Met Leu Glu Thr Glu Gly Phe Phe Asp Arg Ser
 370 375

<210> 32652
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 32652
 Ile His Lys Met Ala Asn Pro Pro His Gly Gly Val Leu Lys Asp Leu
 1 5 10 15
 Leu Ala Arg Asp Ala Pro Arg His Asp Glu Leu Glu Met Glu Ala Glu
 20 25 30
 Lys Leu Pro Ala Ile Val Leu Thr Glu Arg Gln Leu Cys Asp Leu Glu
 35 40 45
 Leu Ile Met Asn Gly Gly Phe Ser Pro Leu Glu Gly Lys Phe Thr Pro
 50 55 60
 Gln Ile Ser Phe
 65

<210> 32653
 <211> 129
 <212> PRT
 <213> A.fumigatus

<400> 32653
 Arg His Gln Ser Leu Gln Ser Thr Arg His Pro Cys Val Gln Trp Ala
 1 5 10 15
 Trp Leu Thr Gly Phe His Tyr Val Gly Pro Arg Lys Pro Ser Trp Ser
 20 25 30
 Leu Ala Val Met Arg Ser Thr Leu Pro Ser Ser Ile Ser Thr Thr Arg
 35 40 45
 Phe Arg Asn Ser Thr Ser Glu Glu Arg Leu Arg Pro Ser Thr Ser Ser
 50 55 60
 Thr Thr Thr Thr Met Ser Leu Ser Ala Val Arg Pro Ile Ile Val Arg
 65 70 75 80
 Pro Asn Cys Lys Arg Glu Met Met Leu Ile Asp Pro Gly Tyr Ile Asp
 85 90 95
 Thr Pro Ala Glu Leu Arg Val His Phe Asp Lys Leu Gly Trp Asn Arg
 100 105 110
 Val Val Ala Phe Gln Thr Arg Tyr Ile Thr Phe Pro Gln Ser Thr Ser
 115 120 125
 Lys

<210> 32654
 <211> 182
 <212> PRT
 <213> A.fumigatus

<400> 32654
 Phe Thr Pro Leu Ser Val Ser Pro Ser Leu Glu Thr Ser Thr Thr Ser
 1 5 10 15
 Pro Val Ser Ala Pro Thr Arg Leu Ser Ser Pro Ala Thr Pro Thr Glu

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                20                25                30
Trp Pro Ser Trp Ala Phe Trp Ala Ser Pro Cys Val Trp Val Val Pro
      35                40                45
Val Arg Pro Ser Gly Thr Pro Ser Ser Val Arg Thr Thr Val Pro Leu
      50                55                60
Thr Ser Ser Ser Asp Val Thr Met Leu Val Pro Ala Arg Thr Pro Arg
65                70                75                80
Ala Arg Asn Ser Thr Ala Leu Thr Met Leu Ser Thr Leu Ser Arg Ser
      85                90                95
Thr Gly Arg Ser Ser Ala Ser Arg Ser Ser Ser Ser Arg Ser Pro
      100                105                110
Thr Cys Pro Thr Pro Met Ser Thr Ser Pro Arg Thr Arg Tyr Pro Leu
      115                120                125
Ala Ser Arg Pro Trp Ile Ser Pro Val Pro Ser Cys Ala Thr Ala Cys
      130                135                140
Ala Pro Val Leu Pro Ser Pro Asn Gly Ser Leu Thr Pro Lys Ser Ser
145                150                155                160
Arg Ser Ser Ala Asn Leu Ala Leu Leu Ala Thr Leu Arg Val Ser Pro
      165                170                175
Ser Ser Leu Pro Gly Thr
      180

```

<210> 32655
 <211> 68
 <212> PRT
 <213> A.fumigatus

```

<400> 32655
Arg Gln Phe Thr Pro Leu Ser Val Cys Glu Asn Val Arg Leu Ala Asp
1                5                10                15
Gly Asn Leu Phe Ser Met Pro Ile Thr Leu Asp Val Ser Gln Ala Val
      20                25                30
Ile Asp Glu Gly Lys Leu Lys Pro Gly Ser Arg Val Thr Leu Arg Asp
      35                40                45
Phe Arg Asp Asp Arg Asn Leu Ala Ile Leu Thr Ile Asp Asp Ile Tyr
      50                55                60
Arg Pro Asp Lys
65

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<210> 32656
 <211> 202
 <212> PRT
 <213> A.fumigatus

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<400> 32656
Ser Met Leu Pro Pro Arg Val Ser Ala Gly Arg Ile Pro Ala Val Ser
1                5                10                15
Arg Pro Leu Leu Pro Pro Ser Ser His Gly Leu Arg His Gln Phe Arg
      20                25                30
Pro Phe Thr His Arg Ser Arg Leu Leu Leu Leu Ser Pro Pro Leu Gly
      35                40                45
Arg Pro Gln Val Pro Phe Leu Ser Pro Leu Ala Ser Thr Arg Pro Leu
      50                55                60
Pro Pro Leu Ser Ile His Leu Arg Gln His Phe Ala Arg Leu Ile Ser
65                70                75                80
Thr Glu Arg Arg Asp Tyr Tyr Lys Arg Arg Leu Ser Arg Gly Leu Arg

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<210> 32657
<211> 1102
<212> PRT
<213> A.fumigatus
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<400>	3	26	57														
Trp	Gln	His	Pro	Phe	Asp	Lys	Asn	Lys	Ala	Tyr	Ala	Leu	Gly	Ala	Asn		
1				5					10					15			
Arg	Arg	His	Trp	Val	Thr	Lys	Asp	Gln	Ala	Lys	Thr	Trp	Glu	Ser	Phe		
			20					25					30				
Glu	Val	Asp	Gly	Tyr	Ala	Ala	Ala	Gln	His	Glu	Pro	Leu	Ile	Phe	His		
		35					40					45					
Gly	Trp	Asp	Ser	Ala	Lys	Val	Ile	Phe	Gln	Ser	Asp	Glu	Cys	Met	Gly		
	50					55					60						
Arg	Leu	Cys	Ile	Val	Lys	Ser	Tyr	Tyr	Thr	Thr	Asp	Asp	Phe	Lys	Thr		
65					70					75					80		
Val	Ser	Pro	Leu	Arg	Val	Ser	Ala	Gly	Gly	Cys	Leu	Trp	Ala	Val	Gly		
				85					90					95			
His	Pro	Gln	Phe	Ala	Asp	Gly	Leu	Asn	Leu	Glu	Asp	Glu	Leu	Arg	Asp		
			100					105					110				
Arg	Val	Leu	Cys	Ile	Val	Pro	Gly	Leu	Lys	Val	Pro	Ser	Ala	His	Ala		
		115					120					125					
Asn	Arg	Leu	Val	Tyr	Ser	Asp	Asp	Phe	Phe	Arg	Ser	Asp	Ala	Glu	Gly		
	130					135					140						
Thr	Glu	Leu	Asn	Ile	Gln	His	Gly	Arg	Pro	Val	Ser	Gly	Ile	Leu	Ser		
145					150					155					160		
Ala	Ala	Ala	Val	Lys	Lys	Phe	Phe	Val	Thr	Ala	Ala	Lys	Ser	Gln	Gly		
				165					170					175			
Thr	Asn	Glu	Leu	Ala	Leu	Tyr	Val	Thr	Leu	Asp	Thr	Lys	Ala	Trp	His		
			180					185					190				
Arg	Ala	Asp	Phe	Gly	Gly	His	Arg	Val	Glu	Gln	Asp	Gly	Tyr	Thr	Leu		
		195					200					205					
Leu	Glu	Ser	Thr	Asn	Tyr	Ser	Met	Gln	Val	Asp	Val	Leu	Thr	Ser	Pro		
	210					215					220						
Ser	Ser	Asn	Thr	Gly	Val	Leu	Phe	Thr	Ser	Asn	Ser	Asn	Gly	Thr	Tyr		
225					230					235					240		
Phe	Thr	Arg	Asn	Val	Glu	His	Thr	Asn	Arg	Asp	Arg	Phe	Gly	His	Val		
				245					250					255			
Asp	Phe	Glu	Lys	Ile	Ala	Asp	Ile	Gln	Gly	Ile	Val	Leu	Val	Asn	Thr		
			260					265					270				

Val Lys Asn Trp Asp Lys Val Glu Ser Glu Asn Glu Lys Lys Val Val
 275 280 285
 Ser Ser Ile Ser Phe Asp Asp Gly Arg Thr Phe Gln Ser Leu Lys Val
 290 295 300
 Gly Asp Lys Gln Leu His Leu His Ser Val Thr Thr Phe Ala Asn Thr
 305 310 315 320
 Gly Arg Val Phe Ser Ser Pro Ala Pro Gly Leu Val Met Gly Val Gly
 325 330 335
 Asn Thr Gly Asp His Leu Lys Lys Tyr Ser Glu Gly Ser Leu Tyr Val
 340 345 350
 Ser Asp Asp Ala Gly Val Thr Trp Arg His Ala Leu Asp Gly Pro Phe
 355 360 365
 Lys Tyr Glu Phe Gly Asp Gln Gly Ser Val Ile Met Ala Val Ser Asp
 370 375 380
 Lys Gly Thr Thr Asp Glu Ile Gln Phe Ser Ile Asp His Gly Lys Glu
 385 390 395 400
 Trp His Ser Thr Lys Leu Gln His Lys Ile Asn Pro Lys Leu Leu Thr
 405 410 415
 Thr Thr Pro Asp Ser Thr Ser Leu Thr Phe Leu Leu Val Gly Ser Glu
 420 425 430
 Glu Ser Arg Glu Gln Lys His Val Val Tyr Ser Ile Asp Phe His Gly
 435 440 445
 Leu His Glu Arg Lys Cys Glu Lys Asp Asp Phe Glu Lys Trp Arg Gln
 450 455 460
 Arg Leu Asn Glu Asn Gly Glu Pro Asp Cys Leu Met Gly His Gln Gln
 465 470 475 480
 Phe Phe Asn Arg Arg Lys Thr Asn Ala Asp Cys Phe Val Asp Glu Glu
 485 490 495
 Phe Lys Asp Pro Gln Pro Ile Phe Glu Pro Cys Lys Cys Ser Phe Glu
 500 505 510
 Asp Phe Glu Cys Asp Phe Asn Phe Val Arg Ser Glu Asp Gly Lys Ser
 515 520 525
 Cys Val Pro Thr Ala Pro Leu Val Pro Pro Val Gly Arg Cys Gln Lys
 530 535 540
 Gln Thr Asp Thr Phe Met Gly Pro Ser Gly Trp Arg Leu Ile Pro Gly
 545 550 555 560
 Asn Thr Cys Thr Arg Glu Gly Gly Glu Asn Leu Asp Lys Val Val Glu
 565 570 575
 Arg Pro Cys Lys Asp Val Val Ser Ala Pro Ser His Asp Lys Pro Met
 580 585 590
 Ala Gln Lys Gln Val Phe Asn Asp Ala Arg Gln Phe Ser Glu Gln Tyr
 595 600 605
 Tyr Tyr Leu Glu Arg Gln Ala Ser Ser Ser Gly Asp Asp Glu Thr Val
 610 615 620
 Ile Met Leu Thr Ser Glu Gly Glu Phe Trp Val Ser His Asp His Gly
 625 630 635 640
 Lys Asn Trp Glu Gln Pro Leu Lys Gly Val Lys Ile Ala Ala Ile Val
 645 650 655
 Pro His Pro Tyr Ser Asp Gly Ala Phe Leu Leu Thr Arg Asp Lys
 660 665 670
 Gln Ala Phe Trp Thr Val Asp Arg Ala Tyr Thr Phe Lys Ser Phe Glu
 675 680 685
 Ala Pro Ile Pro Pro Asn Gln Glu Gly Leu Pro Val Leu Ser Phe His
 690 695 700
 Pro His Tyr Lys Asp Trp Leu Ile Trp Thr Gly Ala Val Asp Cys Ser
 705 710 715 720

His Gly Asp Cys His Ser Asp Ala Tyr Phe Ser Lys Asn Arg Gly Glu
 725 730 735
 Asn Trp Asp Leu Leu Leu Arg Tyr Val Gly Lys Cys Glu Phe Glu Ser
 740 745 750
 Arg Glu Asn Arg Pro Gly Ser Glu Lys Leu Ile Phe Cys Gln Gln Tyr
 755 760 765
 Glu Asn Glu Asn Lys Lys Asn His Leu Gln Leu Leu Ser Ser Glu Asn
 770 775 780
 Leu Phe Ser Asp Ser His Val His Phe Asn Asp Ala Ile Arg Tyr Ala
 785 790 795 800
 Thr Met Ser Glu Tyr Ile Ile Val Ala Ser Arg Asp Pro Asp Asn Pro
 805 810 815
 Asp Ser Leu Ile Ala Ser Val Ser Val Asp Gly Lys Thr Phe Ala Arg
 820 825 830
 Ala Glu Phe Pro Ser Asn Val Asp Val Pro Val Lys Thr Ala Phe Thr
 835 840 845
 Val Leu Asp Ser Ser Thr His Ala Val Phe Leu His Val Thr Val Ser
 850 855 860
 Asp Val Lys Gly Ala Glu Tyr Gly Ser Ile Ile Lys Ser Asn Ser Asn
 865 870 875 880
 Gly Thr Ser Tyr Val Leu Ser Leu Asn Ala Ala Ser Arg Asn Glu Trp
 885 890 895
 Gly Tyr Val Asp Phe Glu Lys Met Gln Gly Leu Glu Gly Val Ala Val
 900 905 910
 Val Asn Ile Ile Ser Asn Val Asp Ala Val Gln Lys Lys Arg Pro Ala
 915 920 925
 Ala Lys Lys Leu Lys Thr Met Ile Thr His Asn Asp Gly Gly Gln Trp
 930 935 940
 Met Leu Leu Pro Pro Pro Ala Lys Asp Ala Asp Gly Lys Asn Phe Gly
 945 950 955 960
 Cys Ser Val Lys Asp Gly Lys Gly Ser Asp Gln Cys Ser Leu His Leu
 965 970 975
 His Gly Tyr Thr Glu Arg Arg Asp Pro Arg Asp Thr Phe Ser Ser Gly
 980 985 990
 Ser Ala Ile Gly Leu Met Met Gly Ile Gly Asn Val Gly Ala Tyr Leu
 995 1000 1005
 Ser Gly Lys Asp Glu Ala Asp Thr Phe Met Thr Arg Asp Gly Gly Ile
 1010 1015 1020
 Thr Trp Lys Ser Val Lys Lys Gly Arg Tyr Met Trp Glu Tyr Gly Asp
 1025 1030 1035 1040
 Ala Gly Ser Val Ile Val Ile Val Pro Glu Leu Arg Pro Thr Lys Val
 1045 1050 1055
 Leu Tyr Tyr Ser Leu Asp Glu Gly Asp Asn Trp Glu Pro Tyr Glu Phe
 1060 1065 1070
 Ser Glu Val Glu Met His Ile Tyr Arg Leu Ser Tyr Arg Ser Leu Arg
 1075 1080 1085
 His Phe Gln Glu Phe Ser Ser Leu Gly Gln Arg Asn Gly Val
 1090 1095 1100

<210> 32658

<211> 246

<212> PRT

<213> A.fumigatus

<400> 32658

Cys Arg Ser Gly Pro Ser Ser Arg Val Val Arg Ile Arg His Arg Gly

12873

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1           5           10           15
Pro Phe Arg Lys Val Asn Ser His Leu Arg Gly Arg Tyr Ile Lys Cys
      20           25           30
Pro Ser Pro Trp Ser Phe Ile Val Val Tyr Gln Ser Arg Lys Met Thr
      35           40           45
Pro Leu Val Lys Val Gly Ser Leu Leu Ala Ala Leu Leu Trp Val Thr
      50           55           60
Phe Gly Ile Ala Thr Val Ser Ala Ser Ile Pro Ser Ser Lys Arg Phe
65           70           75           80
Asp Leu Ser Ala Pro Ser Ala Asp Leu Tyr Arg His Lys Ala Leu Arg
      85           90           95
Asp Asp Thr Val Gln Gln Gly Phe Ala Phe Asp Asn Val Asn Arg Arg
      100          105          110
Leu Phe Val Ala Gln Arg Arg Asp Gly Ser Ser Glu Thr Ala Gly Asp
      115          120          125
Leu Thr Ile Thr Gln Leu Asp Phe Asp Gly Asn Tyr Val Gly His Met
      130          135          140
Tyr Leu Lys Ser Phe Gly His Gly Val Ser Phe Gly Ala Gln Ala Val
145          150          155          160
Gly Ser Ala Thr Tyr Leu Trp Thr Glu Val Asp Ala Asn Ala Asn Gly
      165          170          175
Tyr Gly Lys Gln Leu Ala Arg Phe Lys Phe Ala Ser Gly Thr Thr Leu
      180          185          190
Thr Ser Ser Ser Ala Gln Leu Ala Lys Phe Lys Pro Val Ala Asp Ala
      195          200          205
Thr Glu His Thr Cys Ala Ile Asp Pro Val Tyr Asn Arg Leu Ile Val
      210          215          220
Arg Tyr His Leu Ser Gly Ser Lys His Ile Ala Ser Ser Pro Arg Gly
225          230          235          240
Trp Lys Glu Pro Leu Tyr
      245

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<210> 32659

<211> 249

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (2), (7)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32659

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Val Xaa Asp Met Asn Pro Xaa Ala Ser His Arg Phe Phe Thr Arg Pro
1           5           10           15
Asp Thr Glu Ala Asp Arg Ala Ala His Lys Tyr Pro Val Glu Ala Ser
      20           25           30
Ala Gly Glu Glu Tyr Asn Phe Pro Asp Lys Trp Ile Ser Phe Ile Leu
      35           40           45
Asn Leu Pro Ser Ala Phe Pro His His Arg Thr Gln Cys Ile Ile Glu
      50           55           60
Lys Val Asp Ala Leu Trp Asp Cys Ile Leu Arg Arg Leu Thr Leu Gly
65           70           75           80
Gly Ala Gln Ser Phe Ser Ala Trp Trp Met Thr Lys Val Phe Phe His
      85           90           95
Glu Met Met Leu Trp Gln Ala Glu Lys Asn Gly Phe Met Arg Phe Thr

```

12874

```

      100      105      110
Pro Ser Ser Leu Gln Asn Met Ser Tyr Gly Ser Asn Gln Pro Gly Ser
      115      120      125
Pro Ser Phe Leu Leu Lys Gln Ser Ser Gly Gln Ser Ala Gly Lys Asn
      130      135      140
Asp Ser Phe Ser Ala Ser Asp Ala Gln Gln Ala Asn Asp Arg Ser Arg
145      150      155      160
Ser Thr Ala Arg Pro Ser Ser Ala Asp Val Asn Pro Gln Thr Arg Thr
      165      170      175
Ser Leu Ser Arg Pro Pro Ser Asp Ala Asp Pro Asn Gln Ala Leu Val
      180      185      190
Glu Thr Glu Lys Pro Pro Ser Ile Ser Asp Asn Ile Ala Asn Phe His
      195      200      205
Ala Pro Asn Asn Asp Asp Ser Ala Ile Asp Leu Asp Asp Ser Met
      210      215      220
Leu Met Ser Val Gly Lys Tyr Gly Asp Met Met Ala Ser Asp Pro Ala
225      230      235      240
Asp Ala Glu Gly Asp Val Val Val Ile
      245

```

<210> 32660
 <211> 96
 <212> PRT
 <213> A.fumigatus

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<400> 32660
Gly Ser Ala Leu Asp Asp Leu Cys Thr Arg Asp Glu Thr Ser Ile Asp
1      5      10      15
Ser Thr Asp Ile Gly Leu Asp His Cys Gly Tyr Ser Val Asp Ile His
      20      25      30
Thr His Ile Asn Ser Val Leu Asp Phe Ala Ser Ser Phe Ser Leu Phe
      35      40      45
Ser Phe Ala Phe Arg Leu Gly Asn Thr Arg Pro Leu Leu Met Tyr Ile
      50      55      60
Gly Leu Arg Ser Thr Leu Ser Ala Gly Ile Ile His Ser Phe Leu Thr
65      70      75      80
Val Leu Ala Phe Val Tyr Ser Ile His Phe Phe Leu Tyr Arg Ser Phe
      85      90      95

```

<210> 32661
 <211> 168
 <212> PRT
 <213> A.fumigatus

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<400> 32661
Ile Asn Val Arg Pro Gln Glu Leu Met Ala Asp Phe Ser Gln Trp Met
1      5      10      15
Asp Ala His Glu Thr Trp Ala Thr His Asn Leu Ala Glu Thr Cys Cys
      20      25      30
Ala Ser Ile Ser Leu Asp Asp Leu Leu Ala Phe Ala Gly Asn Lys Asp
      35      40      45
Arg Ala Thr Leu Val Asp Phe Ser Gln Lys Gln Thr Tyr Gly Pro Ile
      50      55      60
Arg Gly Ser Asp Ala Leu Arg Ser Asn Ile Ala His Leu Tyr Arg Ser
65      70      75      80
Asp Arg Cys Glu Pro Leu Ser Lys Asp Asn Ile Leu Val Thr Asn Gly

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<210> 32662
<211> 144
<212> PRT
<213> A.fumigatus
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<210> 32663
<211> 131
<212> PRT
<213> A.fumigatus
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<400> 32663
Arg Ala Lys Tyr Lys Arg Asp Glu Arg Tyr Arg Lys Ile Phe Asn His
1      5      10      15
Val Ile Tyr Cys Val Pro Asn Phe Ser Asn Pro Thr Gly Val Thr Met
      20      25      30
Ser Leu Arg Arg Arg Glu Ala Leu Val Arg Leu Ala Arg Arg Leu Asn
      35      40      45
Gly Leu Val Ile Cys Asp Asp Val Tyr Asp Phe Leu His Trp Pro Ala
      50      55      60
Pro His Ser Ser Asn Asn Glu Ser Ala Trp Ser Ser Met Leu Pro Arg
65      70      75      80
Val Leu Asp Leu Asp Arg Thr Leu Asp Gly Gly Pro Arg Asp Ser Phe
      85      90      95
Gly Asn Val Val Ser Asn Gly Thr Phe Ser Lys Ile Val Ala Pro Gly

```

12876

100 105 110
 Cys Arg Val Gly Trp Ala Glu Gly Glu Pro Gln Leu Val Tyr Gly Leu
 115 120 125
 Ser Gln Val
 130

<210> 32664
 <211> 65
 <212> PRT
 <213> A.fumigatus

<400> 32664
 Arg Arg Leu Val Leu Pro Val Phe Gln Gly Met Glu Lys Arg Pro Val
 1 5 10 15
 His Leu Ile Thr Met Asp Asp Asp Thr Met Leu Ala Arg Asn Ile Tyr
 20 25 30
 Asn Leu Leu Gln His Phe Thr Ala Gln Asp Ser Pro Ser Trp Ile Leu
 35 40 45
 Arg Ile Ala Met Thr Leu Ser Gly Pro His Ser Leu Ser Val Gly Val
 50 55 60
 Thr
 65

<210> 32665
 <211> 91
 <212> PRT
 <213> A.fumigatus

<400> 32665
 Lys Thr Val Leu Ser Val Pro Val Gln Arg Leu Asn Cys Ser Leu Ala
 1 5 10 15
 Leu Glu Leu Ser Arg Ala Phe Val His Ala Lys Ala Pro Gly His Thr
 20 25 30
 Ile Ser Asp Glu Asp Ile Cys His Gly Val Glu Ser Phe Ser Leu Thr
 35 40 45
 Gly Arg Phe Glu Ile Ile Asn Glu Gly Gln Val Gln Trp Phe Val Asp
 50 55 60
 Gly Ala His Asn Val Leu Ser Leu Gly Glu Ala Ala Glu Trp Phe Ala
 65 70 75 80
 Arg Asn Ala Ser Asn Glu Gln Lys Tyr Val Asp
 85 90

<210> 32666
 <211> 144
 <212> PRT
 <213> A.fumigatus

<400> 32666
 Pro Ala Val Gly Ser Ser Asp Ser Lys Pro Ala Pro Glu Thr Asn Ala
 1 5 10 15
 Gln Phe Ser Phe Phe Gly Gln Asp Asp Ile Glu Ser Glu Glu Glu Glu
 20 25 30
 Glu Glu Tyr Arg Glu Pro Gln Thr Pro Phe Thr Lys Lys Asp Leu Leu
 35 40 45
 Ser Arg Gly Leu Arg Ser Ala Ala Pro Thr Pro Asp Thr Ala Leu Ile
 50 55 60

12877

Asn Arg Lys Ile Asp Trp Asn Asn Asp Asp Ser Asp Ala Met Glu Val
 65 70 75 80
 Thr Glu Glu Tyr Ala Asp Thr Pro Ile Thr Arg Ala Glu Ser Lys Ala
 85 90 95
 Glu Ser Lys Glu Asp Ser Glu Phe Thr Lys Trp Phe Trp Glu Asn Arg
 100 105 110
 Gly Asp Asn Asn Arg Ala Trp Lys Lys Arg Arg Arg Asp Ala Ala Lys
 115 120 125
 Glu Gln Arg Gln Arg Glu Asn Arg Arg Thr Gly Met Lys Gly Lys Ser
 130 135 140

<210> 32667
 <211> 71
 <212> PRT
 <213> A.fumigatus

<400> 32667
 Ala Gln Asn Val Val Cys Pro Ile His Lys Pro Leu Tyr Leu Pro Phe
 1 5 10 15
 Ile Tyr Asp Phe Glu Pro Ala Ser Gln Arg Glu Thr Phe Asn Thr Met
 20 25 30
 Thr Asp Val Phe Val Thr Asn Cys Met Ala Arg Arg Leu Ser Met Asn
 35 40 45
 Glu Cys Ser Thr Glu Leu Lys Cys Gln Gly Thr Ile Gln Ser Leu His
 50 55 60
 Arg Asp Ala Glu Asp Cys Leu
 65 70

<210> 32668
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 32668
 Asn Ala Thr Ala Lys Val Asp Ala Ile Ile Ala Glu Asn Pro Gly Lys
 1 5 10 15
 Ser Leu Asp Glu Leu Val Ala Glu Lys Lys Ile Asn Val Asp Gln Lys
 20 25 30
 Ala Gln Gly Pro Glu Glu Ala Cys Ala Pro Gly His Arg Arg Ser Asn
 35 40 45
 Arg Gly Ala Asn Arg Ser Ile Gln Glu Leu Arg Gln Pro Leu
 50 55 60

<210> 32669
 <211> 176
 <212> PRT
 <213> A.fumigatus

<400> 32669
 Leu Arg Arg Arg Arg Ser Thr Trp Thr Arg Lys Arg Arg Ala Leu Lys
 1 5 10 15
 Lys Pro Ala Leu Gln Ala Thr Val Ala Gln Ile Glu Glu Gln Ile Ala
 20 25 30
 Gln Phe Lys Ser Phe Ala Ser His Tyr Glu Glu Arg Leu Asn Ser Gln
 35 40 45
 Lys Ala Ala Leu Glu Lys Ala His Lys Glu Glu Leu Asp Ala Val Arg

12878

50		55		60
Glu Lys Val Arg Ala	Glu Ala Thr Glu Phe His Gln Lys Asp Leu Arg			
65	70	75	80	
Gln Arg Leu Leu Ser	Leu Thr Lys Phe Leu Cys Ala Ala Ala Met			
	85	90	95	
Arg Arg Ser Gly Asp	Glu Thr Ser Pro Glu Ser Arg Ala Phe Glu Gly			
	100	105	110	
Val Leu Tyr Gln Val	Tyr Gly Gly Thr Gln Asp Ala Val Ser Ser Met			
	115	120	125	
Leu Lys Leu Ile Glu	Gly Val Asp Glu Lys Val Val Ser Val Glu Gly			
	130	135	140	
Glu Thr Leu Glu Val	Ser Cys Lys Glu Ala His His Asn Phe Leu Ile			
	145	150	155	160
Glu Ser Asp Leu Val	Gln Leu Ile Asn His Cys Ala Leu Ser Arg Arg			
	165	170	175	

<210> 32670

<211> 85

<212> PRT

<213> A.fumigatus

<400> 32670

Pro Ala Val Glu Pro	Pro Ile Ser Thr Met Ala Ala Ile Ser Val Asn
1	5 10 15
Ser His Ser Gln Ala	Gln Ser Glu Ala Ser Pro Arg Pro Asp Tyr Ala
	20 25 30
Val Ser Ala Ser Lys	Ala Asp Ala Ala Gln Gly Thr Ala Asn Gly Val
	35 40 45
Asp Thr Leu Asp Asn	Pro His Leu Lys Asp Leu Gln Arg Tyr Val Asn
	50 55 60
Phe Lys Ile Glu Ala	Ser Ala Ser Val Ala Met Leu Tyr Phe Asp Cys
	65 70 75 80
Ser Asp His Glu Ile	
	85

<210> 32671

<211> 190

<212> PRT

<213> A.fumigatus

<400> 32671

Leu Thr Ile Val Pro	Cys Leu Asp Gly Lys Val Lys Gln Thr Ser Glu
1	5 10 15
Glu Tyr Val Pro Gly	Glu Ala Thr Glu Glu Val Thr Ala Glu Ala Ser
	20 25 30
Ala Thr Ser Asp Pro	Thr Leu Ala Asn Ala Ala Tyr Thr Glu Leu Gln
	35 40 45
Asp Gly Pro Leu Asp	Ala Gly Ala Thr Ala Ala Asn Glu Ile Asp Ser
	50 55 60
Ser Ala Pro Lys Ala	Glu Val Ser Pro Pro Ala Gln Thr Leu Val Ser
	65 70 75 80
Asp Ala Ala Asn Pro	Val Ala Glu Ala Ser Trp Glu Gln Asn Gly Ala
	85 90 95
Gly Ser Leu Glu Ser	Ser Ala Asn Ala Asp Gly Trp Val Glu Val Pro
	100 105 110
Arg Asp Pro Ala Glu	Thr Glu Thr Gly Leu Gln Ala Thr Pro Ala Phe

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<210> 32672
<211> 79
<212> PRT
<213> A.fumigatus
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<210> 32673
<211> 208
<212> PRT
<213> A.fumigatus
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<400> 32673																
Phe	Leu	Asp	Asp	His	Pro	Pro	Cys	Phe	Arg	Thr	Ala	Ala	Thr	Ile	Pro	
1				5					10					15		
Asn	Ala	Gly	Leu	Gly	Ile	Ala	Gly	Met	Glu	Pro	Ala	Cys	Pro	Pro	Pro	
			20					25					30			
Val	His	Lys	Ser	Pro	Ser	Thr	Ser	Thr	Ala	Pro	Pro	Arg	Lys	Arg	Arg	
		35					40					45				
Lys	Arg	Thr	Val	Val	Ser	Gly	Ala	Ala	Asp	Asp	Cys	Phe	Thr	Cys	Ala	
	50					55					60					
Arg	Glu	Gly	Ser	Val	Cys	Asp	Arg	Arg	Arg	Pro	Tyr	Cys	Ser	Gln	Cys	
65					70					75					80	
Leu	Asn	Arg	Gly	Arg	Asp	Cys	Ala	Gly	Tyr	Lys	Thr	Thr	Leu	Thr	Trp	
				85					90					95		
Gly	Val	Gly	Val	Ala	Ser	Arg	Gly	Lys	Leu	Arg	Gly	Leu	Ser	Leu	Pro	
			100					105					110			
Ile	Thr	Gly	Ala	Gln	Pro	Ala	Ala	Gly	Asp	Ser	Arg	Arg	Ser	Gly		
		115					120					125				
Gly	Lys	Glu	Asn	Pro	Ser	Gly	Gln	Pro	Val	Ala	Ser	Pro	Thr	Thr	Tyr	
	130					135					140					
Thr	Phe	Ala	Ser	Asp	Ala	Ser	Pro	Ala	Ala	Ala	Ser	Asp	Ser	Ala	Glu	
145					150					155					160	
Arg	Ala	Thr	Phe	Gln	Ser	Gln	Glu	Ser	Pro	Thr	Pro	Asp	Thr	Asn	Glu	
				165					170					175		
Asn	Ala	Arg	Trp	Met	Arg	Thr	Ala	Ala	Asn	Pro	Gly	Ser	Leu	Ala	Asp	

12880

180 185 190
 Ser His Glu Pro Ile Pro Trp Leu Glu Thr Ser Pro Gly Cys Lys His
 195 200 205

<210> 32674
 <211> 64
 <212> PRT
 <213> A.fumigatus

<400> 32674
 Phe Pro Pro Met Ala Glu Lys Ile Ala Asp Thr Ser Ala Val Pro Ser
 1 5 10 15
 Ala Glu Thr Ala Ala Ala Ser Gly Gly Asp Phe Ser Ser Pro Thr Ala
 20 25 30
 Thr Asp Gly Thr Glu Ile Ala Arg Asn Asn Asp Val Thr Val Ala Asp
 35 40 45
 Gln Glu Asn Ala Ala Arg Leu Ile Gln Val Arg Ser Thr Ser Ser Ile
 50 55 60

<210> 32675
 <211> 389
 <212> PRT
 <213> A.fumigatus

<400> 32675
 Gly Lys Cys Pro Phe Glu Asp His Thr Leu Thr Arg Leu Leu Thr Ser
 1 5 10 15
 Ser Val Gln Thr Leu Lys Glu Ala Arg Trp Arg Glu Leu Tyr Arg Pro
 20 25 30
 Ser Val Ser Pro Glu Ser Ala Gly Thr Asp Ala Ser Lys Gln Val His
 35 40 45
 Gln Lys Trp Glu Arg Val Val Ser Val Ala Met Gln Ala Gly Ser Asp
 50 55 60
 Asp Gly Lys Phe Arg Asn Leu Asn Glu Thr Asp Ser Ser Lys Leu Pro
 65 70 75 80
 Thr Ala Ser Pro Val Gly Thr Gly Arg Pro Ser Glu Asn Ala Pro Ala
 85 90 95
 Asn Ala Ser Ser Thr Ala Arg Ser Arg Phe Pro His Ser Phe Pro Arg
 100 105 110
 Leu His His Gly Val Pro Ser Glu Lys Arg Ala Lys Met Met Asp Gln
 115 120 125
 Arg Tyr Phe Leu Glu Met Val Asp Leu Lys His Arg His Gly Ser Asn
 130 135 140
 Leu Arg Lys Tyr His Asn Tyr Trp Met Asn Cys Pro Ser Thr Gln Asn
 145 150 155 160
 Phe Phe Tyr Trp Leu Asp His Gly Glu Gly Lys Asp Leu Asp Leu Pro
 165 170 175
 Glu Cys Pro Arg Ala Lys Leu Glu His Gln Gln Val Arg Tyr Phe Ser
 180 185 190
 Arg Asp Glu Arg Leu Asn Tyr Leu Val Thr Val Asp Gln Ala Gly Leu
 195 200 205
 Phe Leu Trp Ala Lys His Asn Glu Leu Val Cys Thr Asp Ser Thr Arg
 210 215 220
 Phe Lys Asp Ser Leu Lys Gly Val Val Pro Val Ala Glu Asp Ala Pro
 225 230 235 240
 Gln Phe Arg Gly His Ser Glu Ala Gly Tyr Pro Val Ala Tyr Ala Ser

[illegible]

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<210> 32676
<211> 152
<212> PRT
<213> A.fumigatus
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<210> 32677
<211> 209
<212> PRT
<213> A.fumigatus
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<400> 32677
 Leu Gly Pro Met Pro Gln Ile Leu Val Phe Pro Val Ser Thr Val Ala
 1 5 10 15
 Phe Leu Ala Val Leu Gly Gly Val Ser Ala Ala Pro Thr Ala Ser Cys

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<210> 32678
<211> 185
<212> PRT
<213> A.fumigatus
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Pro	Ile	Thr	Arg	Ser	Thr	Tyr	Lys	Met	Glu	Phe	Gln	Ser	Arg	Ile	Ala
1				5					10					15	
Gln	Tyr	Ser	Leu	Asp	Glu	Met	Met	Ile	Asp	Asp	Ala	Ser	Ala	Ser	Leu
			20					25					30		
Asp	Ser	Cys	Met	Gly	Lys	His	Pro	Cys	Asp	Leu	Asp	Ala	Ala	Phe	His
		35					40					45			
Glu	Leu	Asp	Phe	Pro	Ser	Pro	Pro	Ser	Thr	Glu	Glu	Ile	Ser	Asp	Thr
	50					55					60				
Glu	Thr	Glu	Ala	Ala	Thr	Glu	Ile	Ala	Glu	Glu	Thr	Glu	Gly	Lys	Lys
65					70					75				80	
Ala	Leu	Pro	Ser	Arg	Leu	Glu	Val	Ser	Phe	Thr	Thr	Pro	Leu	Asp	Gly
				85					90					95	
Phe	Asp	Pro	Leu	Gln	Arg	Arg	Leu	Ser	Arg	Leu	Thr	His	Arg	Leu	Arg
			100					105					110		
His	Ser	Val	Leu	Tyr	Phe	Leu	Ala	Leu	Tyr	Gly	Ile	Ser	Ile	Gln	Tyr
		115					120					125			
Ala	Leu	Tyr	Pro	Ile	Glu	Glu	Ser	Gly	Ile	Gly	Gly	Val	His	Asn	Ala
	130					135					140				
Leu	Pro	Val	Val	Leu	Leu	Val	Ala	Thr	Asp	Asp	Val	Pro	Val	Ser	Met
145					150					155					160
Trp	Arg	Lys	Gly	Val	Lys	Arg	Ala	Tyr	Glu	Tyr	Leu	Ser	Ser	Arg	Thr
				165					170					175	
Gly	Lys	Arg	Arg	Ala	Ile	Leu	Leu	Cys							
			180					185							

<210> 32679
 <211> 63
 <212> PRT
 <213> A.fumigatus

<400> 32679

Val	Ser	Ser	Pro	Leu	Pro	Asn	Gly	Ala	Cys	Leu	Leu	Arg	Leu	Ile	Leu
1				5					10					15	
Thr	Asp	Thr	Gly	Gly	Phe	Phe	Gly	Asn	Thr	Gly	Ala	Asn	Ser	Ser	Tyr
			20					25					30		
Ala	Glu	Tyr	Asp	Leu	Val	Ile	Ile	Pro	Glu	Gly	Asp	Gly	Leu	Asn	Asn
		35					40					45			
Thr	Leu	Ala	Ser	Asp	His	Ala	Cys	Pro	Gly	Asp	Lys	Ser	Glu	Gly	
	50					55					60				

<210> 32680
 <211> 294
 <212> PRT
 <213> A.fumigatus

<400> 32680

His	His	Pro	Thr	Pro	Val	Leu	Thr	Cys	Leu	Ile	Asn	Gln	Pro	Arg	Thr
1				5					10					15	
Thr	Ser	Pro	Glu	Lys	Phe	Ile	Pro	Arg	Phe	Thr	Lys	Thr	Arg	Pro	Ile
			20					25					30		
Pro	Ser	Ser	Pro	Leu	Pro	Ser	Pro	Arg	Leu	Gln	Pro	His	Pro	Val	Arg
		35					40					45			
His	His	Phe	His	Asp	Glu	Leu	Pro	Tyr	Glu	Thr	Ala	Ala	Leu	Gly	
	50					55				60					
Thr	Ile	Ser	Pro	Phe	Cys	Thr	Leu	Phe	Thr	Glu	Gln	Glu	Trp	His	Asp
65					70					75				80	
Tyr	Ala	Tyr	Asn	Val	Asp	Leu	Gln	Phe	Tyr	Gly	Asn	Tyr	Gly	Leu	Gly
				85					90					95	
Ala	Pro	Ser	Gly	Arg	Ala	Gln	Gly	Ile	Gly	Tyr	Val	Leu	Glu	Leu	Ala
			100					105					110		
Ser	Arg	Leu	Ala	Gly	Arg	Leu	Ile	Pro	Thr	Ser	Asp	Thr	Ser	Ile	Asn
		115					120					125			
Ser	Thr	Tyr	Asp	Asn	Asn	Ala	Ala	Gln	Phe	Pro	Leu	His	Gln	Pro	Leu
	130					135					140				
Tyr	Met	Asp	Met	Ser	His	Asp	Asp	Val	Ile	Val	Ala	Val	Leu	Ala	Ala
145					150					155				160	
Leu	Gly	Leu	Glu	Tyr	Phe	Lys	Tyr	Gly	Glu	Asp	Gly	Leu	Pro	Asp	Glu
			165						170					175	
Ile	Glu	His	Ala	Leu	Glu	Arg	Thr	Phe	Arg	Leu	Asn	Glu	Ile	Val	Pro
		180						185					190		
Phe	Gly	Ala	Arg	Leu	Val	Ser	Glu	Val	Trp	Thr	Cys	Pro	Ala	Gly	Pro
		195					200					205			
Lys	Met	Arg	Phe	Lys	Glu	Leu	Asp	Ala	Thr	Leu	Tyr	Thr	Asn	Pro	Ser
	210					215					220				
Val	Arg	Gly	Thr	Asp	Phe	Ile	Arg	Phe	Val	Leu	Asn	Gly	Ala	Pro	Leu
225					230					235				240	
Pro	Thr	Gln	Gly	Leu	Val	Gly	Cys	Glu	Arg	Ala	Glu	Asn	Gly	Phe	Cys
			245						250					255	
Ala	Leu	Thr	Asp	Phe	Leu	Gly	Gly	Val	Ala	Lys	Leu	Lys	Glu	Lys	Ala
			260					265						270	

12884

Met Tyr Gln Val Ala Cys Phe Gly Asn Tyr Thr Thr Gly His Gln Val
275 280 285
Gly Asp Gly Arg Pro Glu
290

<210> 32681
<211> 124
<212> PRT
<213> A.fumigatus

<400> 32681
Arg Leu Glu Tyr Leu Pro Arg Tyr Leu Phe Ser Tyr Cys Ile Asp Ser
1 5 10 15
Tyr Arg Lys Gln Cys Val Ile Asp Asp Glu Val Ala Leu Leu Asp Val
20 25 30
Leu Asp Thr Ala Gly Gln Glu Glu Tyr Ser Ala Met Arg Glu Gln Tyr
35 40 45
Met Arg Thr Gly Glu Gly Phe Leu Leu Val Tyr Ser Ile Thr Ser Arg
50 55 60
Gln Ser Phe Glu Glu Ile Met Thr Phe Gln Gln Gln Ile Leu Arg Val
65 70 75 80
Lys Asp Lys Asp Tyr Phe Pro Ile Ile Val Val Gly Asn Lys Cys Asp
85 90 95
Leu Glu Lys Glu Arg Ala Val Ser Gln Gln Gly Arg Arg Thr Ser Arg
100 105 110
Arg Phe Ser Leu Ser Gln Pro Trp Gln Tyr Ser Tyr
115 120

<210> 32682
<211> 84
<212> PRT
<213> A.fumigatus

<400> 32682
Ala Ile Cys Tyr Ala Glu Gly Glu Ala Leu Ala Arg Gln Phe Gly Cys
1 5 10 15
Lys Phe Ile Glu Thr Ser Ala Lys Ser Arg Ile Asn Val Glu Asn Ala
20 25 30
Phe Tyr Asp Leu Val Arg Glu Ile Arg Arg Tyr Asn Lys Glu Met Ser
35 40 45
Ser Tyr Pro Ser Gly Ser Gly Ala Ala Gly Thr Arg Ala Pro Glu Gly
50 55 60
Lys Met Asp Val Ser Glu Pro Gly Asp Asn Ala Gly Cys Cys Gly Lys
65 70 75 80
Cys Val Ile Met

<210> 32683
<211> 67
<212> PRT
<213> A.fumigatus

<400> 32683
Thr Ile Cys Ser Glu Gln Ala Leu Leu Gln Glu Asp Tyr Asp Phe Asn
1 5 10 15
Leu Ser Phe Cys Phe Leu Ala Cys Asp Ser Thr Trp Met Leu Phe Leu

12885

[illegible]

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<210> 32684
<211> 318
<212> PRT
<213> A.fumigatus
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<400> 32684																
Val 1	Ser	Trp	Ser 5	Gly	Leu	Pro	Ala	Ala	Gly 10	Gly	Leu	Ile	Trp	Ile 15	Val	
Val	Phe	Leu	Ser 20	Ala	Tyr	Leu	Ala	Ile 25	Leu	Val	Thr	Phe	Pro 30	Cys	Gly	
Arg	Leu	Met 35	Glu	Ala	Val	Leu	Pro 40	Glu	Arg	Lys	Trp	Lys 45	Ile	Leu	Arg	
Trp	Thr 50	Phe	Thr	Leu	Asn 55	Pro	Gly	Arg	Phe	Asn 60	Gln	Lys	Glu	His	Cys	
Ile 65	Val	Ala	Ile	Met 70	Ala	Ser	Leu	Val	Thr	Ala 75	Phe	Asp	Asn	Gly	Ser 80	
Leu	Ala	Thr	Asp 85	Val	Tyr	Val	Ala	Phe 90	Glu	Lys	Phe	Leu	His 95	Val	Pro	
Ile	Ser	Leu	Gly 100	Tyr	Arg	Phe	Met 105	Phe	Leu	Leu	Thr	Thr 110	Gln	Ala	Leu	
Ser	Phe 115	Gly	Ile	Ala	Gly	Leu	Phe 120	His	Lys	Phe	Phe 125	Val	Glu	Pro	Glu	
Ala	Cys 130	Val	Trp	Pro	Gly	Val	Leu 135	Pro	Thr	Cys	Ser 140	Met	Leu	Tyr	Thr	
Met 145	His	Gln	Arg	Asn 150	Lys	Gln	Asn	Glu	Glu	Thr 155	Asn	Gly	Trp	Lys	Ile 160	
Ser	Arg	Met	Lys 165	Leu	Phe	Ala	Val	Val 170	Ile	Leu	Cys	Gly	Thr 175	Leu	Tyr	
Gln	Phe	Leu	Pro 180	Gly	Phe	Leu	Phe 185	Thr	Gly	Leu	Thr	Thr 190	Phe	Ala	Trp	
Ile	Thr 195	Trp	Ile	Phe	Pro	Asn 200	Asn	Val	Thr	Ile	Asn 205	Gln	Val	Phe	Gly	
Ala	Ile 210	Ser	Gly	Met	Asp 215	Leu	Leu	Pro	Met	Thr 220	Leu	Asp	Trp	Asn	Gln	
Val 225	Thr	Gly	Tyr	Leu	Gly 230	Ser	Pro	Leu	Leu	Val 235	Pro	Thr	Trp	Ala	Leu 240	
Thr	Asn	Val	Phe 245	Cys	Gly	Ser	Ile	Phe 250	Phe	Leu	Trp	Val 255	Val	Ser	Pro	
Ala	Leu	His	Trp 260	Ser	Asn	Val	Trp 265	Glu	Gly	Met	Tyr	Met 270	Pro	Phe	Ser	
Ser	Ser 275	Lys	Thr	Phe	Asp	Asn 280	Thr	Gly	Arg	Val	Ile 285	Leu	Asp	Thr	Ser	
Leu	Arg 290	Ser	Tyr	Leu	Thr	His 295	Ser	Arg	Gln	Ala 300	Ile	Gln	His	Gln	Ser	
Ser 305	Asp	Glu	Leu	Arg	Leu 310	Phe	Thr	Lys	Ser	Asp 315	Cys	Leu	Ser			

<210> 32685

<211> 78
 <212> PRT
 <213> A.fumigatus

<400> 32685

Arg	Leu	Phe	Thr	Pro	Tyr	Lys	Leu	Phe	Gln	Ser	Ile	Asn	Ile	Asp	Leu
1				5					10					15	
Arg	Ser	Val	Ser	Pro	Glu	Val	Arg	Ala	Ser	Val	Pro	Ala	Asp	Asp	Glu
			20					25					30		
Asp	Ile	Pro	Val	Asn	Thr	Phe	Arg	Ala	Trp	Phe	Leu	Gly	Ile	Val	Gly
	35					40						45			
Thr	Val	Val	Leu	Thr	Ala	Leu	Asn	Gln	Phe	Phe	Gln	Phe	His	Ser	Pro
	50					55					60				
Pro	Arg	Glu	Cys	Leu	Gly	Gln	Gly	Tyr	Gln	Gln	Gln	Glu	Gly		
65					70				75						

<210> 32686
 <211> 95
 <212> PRT
 <213> A.fumigatus

<400> 32686

His	Ile	Gln	Gly	Lys	Pro	Tyr	Asn	Thr	Ser	Arg	Val	Met	Asn	Ser	Asp
1				5					10					15	
Tyr	Ser	Leu	Asn	Gln	Thr	Ala	Tyr	His	Asp	Tyr	Ser	Pro	Val	Phe	Leu
			20					25					30		
Ser	Thr	Thr	Ser	Val	Leu	Ser	Tyr	Gly	Leu	Gly	Phe	Ala	Ala	Val	Ala
	35						40					45			
Ser	Ile	Ile	Val	His	Thr	Ala	Leu	Tyr	His	His	Arg	Glu	Ile	Trp	Tyr
	50					55					60				
Gly	Leu	Leu	Ala	Ser	Ile	Gly	Lys	Ser	Ser	Gly	Glu	Glu	Lys	Pro	Asp
65				70					75					80	
Ile	His	Ala	Arg	Val	Ser	Thr	Thr	Thr	Pro	Val	Gly	Asn	Thr	His	
				85					90					95	

<210> 32687
 <211> 129
 <212> PRT
 <213> A.fumigatus

<400> 32687

Pro	Lys	Gln	Leu	Met	Lys	Lys	Tyr	Lys	Gln	Val	Pro	Thr	Trp	Trp	Tyr
1				5					10					15	
Gly	Cys	Thr	Phe	Leu	Gly	Ile	Phe	Ser	Ile	Ser	Ile	Ala	Phe	Leu	Tyr
			20					25					30		
Ala	Tyr	Asp	Thr	Gly	Leu	Pro	Trp	His	Gly	Leu	Ile	Leu	Ala	Ile	Thr
	35						40					45			
Leu	His	Val	Ile	Leu	Leu	Leu	Pro	Thr	Gly	Ile	Met	Met	Ala	Tyr	Cys
	50					55					60				
Asn	Ile	Lys	Leu	Ser	Thr	Ala	Val	Ile	Ser	Ala	Leu	Val	Ala	Gly	Tyr
65				70					75					80	
Ile	Trp	Pro	Gly	Lys	Met	Met	Asn	Asn	Val	Val	Phe	Lys	Ile	Phe	Thr
			85					90					95		
Leu	Val	Ser	Ser	Ala	Gln	Gly	Leu	Gly	Tyr	Ile	Ser	Val	Met	Lys	Leu
			100					105					110		
Ala	His	Tyr	Met	Val	Ser	Leu	Pro	Phe	Lys	Pro	Glu	Glu	Gln	Gly	Phe

115
Leu

120

125

<210> 32688
<211> 79
<212> PRT
<213> A.fumigatus

<400> 32688

Gln	Phe	Leu	Cys	Pro	Leu	Ala	Ala	Gly	Tyr	Ala	Thr	Asn	Ala	Thr	Phe
1			5						10					15	
Trp	Gly	Leu	Ile	Gly	Pro	Lys	Arg	Leu	Phe	Ser	Glu	Gly	Ser	Met	Tyr
		20						25					30		
Arg	Pro	Met	Leu	Trp	Phe	Phe	Phe	Ile	Gly	Ala	Ala	Ser	Pro	Leu	Val
		35					40					45			
Leu	Tyr	Leu	Leu	Asp	Arg	Arg	Phe	Pro	Arg	Ala	Met	Leu	Arg	Lys	Val
	50					55					60				
Pro	Thr	Asp	Arg	Thr	Thr	Tyr	Asn	Val	Tyr	Val	Thr	Glu	Cys	Asn	
65					70					75					

<210> 32689
<211> 110
<212> PRT
<213> A.fumigatus

<400> 32689

Ile	His	Leu	Pro	Ala	Ile	Phe	Ala	Ser	Thr	Ala	Ser	Ile	Pro	Pro	Ala
1			5						10					15	
Thr	Ala	Ala	Asn	Tyr	Met	Ala	Trp	Gly	Ile	Val	Gly	Leu	Tyr	Phe	Asn
		20						25					30		
Gly	His	Leu	Lys	His	Arg	Tyr	Arg	Pro	Trp	Trp	Met	Lys	Tyr	Asn	Tyr
		35				40						45			
Ile	Leu	Ser	Ala	Gly	Leu	Asp	Ala	Ala	Leu	Ala	Val	Gly	Asn	Phe	Leu
	50					55					60				
Ile	Phe	Phe	Cys	Leu	Ala	Tyr	Pro	Gly	Ile	Glu	Leu	Lys	Trp	Phe	Gly
65					70					75				80	
Asn	Asp	Ile	Ala	Ala	Arg	Thr	Ala	Asp	Gly	Leu	Gly	Val	Pro	Leu	Arg
			85					90						95	
Thr	Val	Glu	Arg	Gly	Gln	Thr	Phe	Gly	Pro	Arg	Asn	Trp	Asn		
			100					105					110		

<210> 32690
<211> 146
<212> PRT
<213> A.fumigatus

<400> 32690

His	Val	Ser	Arg	Tyr	Ser	Val	Pro	Ser	Ala	Asp	Ser	Phe	Met	Met	Gly
1			5						10					15	
Ile	Met	Asp	Asp	Glu	Leu	Asp	Ile	Asp	Thr	Ala	His	Thr	Lys	Glu	Asp
		20						25					30		
Lys	Asp	Thr	Ala	Ile	Arg	Ala	Lys	Ala	Ser	Lys	Thr	Trp	Arg	Ile	Leu
		35					40					45			
Arg	Leu	Ser	Ala	Lys	Gly	Lys	Leu	Ala	Ala	Phe	Asp	Lys	Ile	Asp	Asp
	50					55					60				

12888

Gly Lys Asn Leu Lys Ala Leu Phe Glu Ala Pro Gln Pro Leu Glu Ser
 65 70 75 80
 Thr Thr Pro Ala His Glu Pro Ala Ser Gln Ala Ser Glu Pro Ala Ala
 85 90 95
 Lys Ala Ser Gly Asp Ala Gly Pro Glu Ala Asn Ala Ser Gly Gln Glu
 100 105 110
 Glu Gln Pro Val Asp Arg Asn Thr Thr Ala Val Ser Glu Gln Thr Pro
 115 120 125
 Gly Asp Leu Asn Asp Asn Asn Gln Glu Ala Val Thr Gly Ala Pro Gln
 130 135 140
 Ala Thr
 145

<210> 32691

<211> 376

<212> PRT

<213> A.fumigatus

<400> 32691

Val Lys Tyr Gly Val Gln Ile Thr Asn Asn Leu Phe Ser Leu Leu Val
 1 5 10 15
 Asp Pro Asp Leu Ile Phe Leu Ala Phe Leu Asn Ile Pro Leu Val Leu
 20 25 30
 Gln Lys Asp Ala Val Arg Leu His Val Thr Leu Arg Pro Gly Ser Val
 35 40 45
 Leu Ile Ser Ser Thr Arg Phe Ser Asp Lys Asn Leu Glu Glu Phe Gln
 50 55 60
 Thr Leu Arg Tyr Asn Cys Arg Gln Val Ile Pro Val Phe Ser Gln Pro
 65 70 75 80
 Phe Pro Asp Thr Arg Thr Val Lys Met Asp Asn Ala His Asp Leu Gln
 85 90 95
 Ala Ser Thr Gln Asn Ser Thr Val Asp Leu Lys Tyr Asp Cys Asp Glu
 100 105 110
 Glu Asn Ile Gln Gln Ala Asp Val Asn Ser Ser Leu Ser Ala Ala Val
 115 120 125
 Thr Asp Ser Leu Glu His Val Leu Pro Arg Asp Arg Glu Met Lys Thr
 130 135 140
 Pro Thr Tyr Asp Tyr Ala Tyr Glu Lys Ser Met Ser His Thr Glu Ala
 145 150 155 160
 Lys Leu Phe Tyr Gln His His Gln Leu Val Ser Arg Gly Ala Asp Ser
 165 170 175
 Glu Ser Asp Gln Gly Ser Gly Leu Ser Gly Arg Arg Ser Ala Ser Gly
 180 185 190
 Ile Leu Ser Thr Lys Ala Gln Thr Glu Gly Lys Pro Gln Thr Gly Ile
 195 200 205
 Leu Gly Ser Ser Asn Ser Thr Gln Leu Gly Pro Pro Thr Ser Gly Tyr
 210 215 220
 Ala Glu Asn Ile Ser Thr Ser Ala Gly Gln Arg Pro Leu Arg Asp Asp
 225 230 235 240
 Ala Met His His Glu Asn Leu Asn Glu Gln Gly Ser Ser Tyr Met Gln
 245 250 255
 Phe Thr Thr Glu Val Pro Gly Ala Val Lys Ser Ala Met Asn Met Thr
 260 265 270
 Gly Ser Gly Thr Val Ala Ser Glu Leu Asn Val Ile Tyr Arg Lys Ile
 275 280 285
 Arg Gly Leu Leu Glu Arg Arg Ala Glu Tyr Ile Arg Leu Ser Ser Gln

12889

290		295		300
Gly Pro Gly Asp Asn Pro Lys Asp Arg Pro Asp Trp Arg Ile Tyr Pro				
305		310		320
Pro Pro Pro Glu Pro Ala Trp Asp Ala Asp Gly Glu Asn Gly Asn Gln				
	325		330	335
Gly Ser Ser Ala Gly Ala Gly Thr Lys Lys Arg Lys Met Gly Gln Asp				
	340		345	350
Ile Gly Glu Asp Phe Asp Met Ala Glu Leu Ile Pro Leu Pro Gly Arg				
	355		360	365
Val Lys Leu Asp Ile Gln Ile Gly				
370		375		

<210> 32692

<211> 210

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (165)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32692

Tyr Ala Gly Tyr Ala Cys Met Tyr His Ser His Lys Ser Leu Ser Ile				
1	5		10	15
Thr Leu Leu Leu Ile Asn Leu Gln Ala His Thr Asp Ser Phe His Arg				
	20		25	30
Phe Asp Lys Phe Asn Leu Lys Tyr Asn Pro Val Gly Glu Ser Arg Leu				
	35		40	45
Arg Glu Ile Phe Leu Lys Thr Asp Asn Tyr Ile Lys Gly Arg Tyr Leu				
	50		55	60
Ala Glu Ile Thr Lys Glu Val Ile Ser Asp Leu Glu Ser Ser Lys Tyr				
	65		70	75
Gln Met Val Glu Trp Arg Ile Ser Ile Tyr Gly Arg Ser Ile Gln Glu				
	85		90	95
Trp Asp Lys Leu Ala Ala Trp Val Val Asp Asn Lys Leu Phe Ser Pro				
	100		105	110
Asn Val Arg Trp Leu Ile Gln Val Pro Arg Leu Tyr Asp Val Tyr Lys				
	115		120	125
Ala Ser Gly Met Met Glu Asn Phe Glu Gln Val Ile Thr Asn Val Phe				
	130		135	140
Gln Pro Leu Phe Glu Val Thr Lys Asn Pro Ser Ser His Pro Lys Leu				
	145		150	155
His Ile Phe Leu Xaa Arg Val Val Gly Phe Asp Ser Val Asp Asp Glu				
	165		170	175
Ser Lys Ala Glu Arg Arg Leu Tyr Lys Lys Tyr Pro Ile Pro Arg Glu				
	180		185	190
Trp Asn Thr Arg Gln Asn Pro Pro Tyr Ser Tyr Trp Asp Leu Leu His				
	195		200	205
Val Arg				
210				

<210> 32693

<211> 176

<212> PRT

<213> A.fumigatus

<400> 32693

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Ser Arg Ser Arg Gly Glu Ser Ser Trp Thr Phe Lys Leu Asp Glu Asn
1          5          10          15
Ser Val Tyr Gln Val Tyr Glu Asn Leu Glu Ala Ala Asn Ala Asn Lys
20          25          30
Pro Thr Ile Arg Ile Pro Ser Leu Arg Asp Phe Tyr Met Asp Leu Asp
35          40          45
Ala Val Ile Asp Val Ser Thr Asp Gly Pro Ala Lys Ser Phe Ala Phe
50          55          60
Lys Arg Leu Ser Tyr Leu Glu Gly Lys Phe Gln Leu Tyr Thr Leu Leu
65          70          75          80
Asn Glu Tyr Gln Glu Ile Ala Asp Ser Lys Lys Val Pro His Arg Asp
85          90          95
Phe Tyr Asn Val Arg Lys Val Asp Thr His Val His His Ser Ala Cys
100         105         110
Met Asn Gln Lys His Leu Leu Arg Phe Ile Lys Ser Lys Met Lys Lys
115         120         125
Ser Pro Asp Glu Val Val Leu Phe Arg Asp Gly Lys His Leu Thr Leu
130         135         140
Arg Glu Val Phe Glu Ser Ile Asn Leu Thr Ala Tyr Asp Leu Ser Ile
145         150         155         160
Asp Thr Leu Asp Met His Val Cys Ile Ile Pro Thr Ser Leu Phe Leu
165         170         175

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<210> 32694

<211> 378

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (4)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32694

```

Tyr Gly Pro Xaa Arg Ser Val Leu Lys Thr Arg Arg Leu Glu Ala Asp
1          5          10          15
Gly Phe Ala Ile Pro Ser Leu Pro Ile Asp Pro Ala Leu Thr Thr Ala
20          25          30
Asp Ser Gly Arg Arg Arg Ala Ser Val Thr Ser Val Leu Asn Lys Val
35          40          45
Val Ser Glu Val Gly Glu Glu Ala Ala Ile Ala Lys Ser Ala Arg Pro
50          55          60
Ala Ala Pro Lys Arg Pro Lys Leu Pro Pro Pro Thr Pro Glu Gln Ile
65          70          75          80
Ala Ser Glu Glu Ala Leu Glu Asn Glu Met Thr Ala Leu Leu Ser Lys
85          90          95
Gly Ser Asn Met Ile Glu Ser Val Ala Ser Gly Arg Glu Gln Glu Asn
100         105         110
Lys Val Ser Asp Arg Ala Glu Ile Asp Ala Ser Glu Phe Glu Asp Asp
115         120         125
Pro Glu Val Ala Asn Cys Leu Leu Ser Pro Ala Glu Val Glu Ile Lys
130         135         140
Glu Arg Ile Trp Val His Glu Asn Lys Asp Tyr Leu Arg Thr Gln Gln
145         150         155         160

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12891

Ala Lys Ala Leu Lys Arg Ala Leu Ala Glu Ala Asp Ser Gln Pro Gly
 165 170 175
 Met Arg Lys Pro Arg Lys Arg Arg Arg Gly Arg Leu Gly Asp Val Thr
 180 185 190
 Tyr Leu Glu Gly Asp Gly Glu Asp Ala Asp Gly Arg Ser Thr Arg Ala
 195 200 205
 Ser Thr Pro Ala Glu Ala Thr Arg Arg Met Leu Glu Arg Arg Gly Phe
 210 215 220
 Ser Lys Lys Ile Asn Tyr Arg Leu Leu Glu Ser Leu Phe Gly Asp Glu
 225 230 235 240
 Gly Ala Asp Glu Ala Ala Lys Ala Lys Ala Glu Ser Met Ser Arg Ser
 245 250 255
 Arg Ser Arg Ser Gln Ser Val Ala Ser Arg Arg Ser Ala Ser Val Glu
 260 265 270
 Pro Arg Ala Ile Ser Leu Ala Thr Ala Lys Pro Ala Ala Ser Pro Ala
 275 280 285
 Pro Pro Arg Arg Ser Thr Gln Phe Pro Gly Glu Lys Pro Leu Gln Pro
 290 295 300
 Gly Val Gln Val Gly Lys Ile Asp Ser Ala His Thr Asn Glu Glu Val
 305 310 315 320
 Leu Gly Pro Ala Pro Glu Ser Gly Lys Ile Pro Glu Glu Glu Met Asp
 325 330 335
 Asp Tyr Asp Asp Asp Glu Glu Glu Glu Glu Glu Asp Asp Tyr Glu Glu
 340 345 350
 Asp Pro Asp Gly Val Glu Ala Ala Phe Ala Gly Gln Tyr Gly Asp Tyr
 355 360 365
 Tyr Asp Asp Glu Ser Asp Tyr Gly Ser Asp
 370 375

<210> 32695
 <211> 72
 <212> PRT
 <213> A.fumigatus

<400> 32695
 Arg Asn Leu Ile His Ser Leu Gln Leu Phe Trp Asn Val Ser Thr Met
 1 5 10 15
 Ala Asp Thr Gln Lys Val Asp Gln Pro Val Phe Tyr Arg Val Val Gly
 20 25 30
 Thr Val Pro Tyr Ser Asp Tyr Ser Gly Lys Ala Pro Arg Gln Val Tyr
 35 40 45
 Arg Ser Leu Asp Ile Gln Cys Val Gly Arg Trp Ser Pro Val Gly Lys
 50 55 60
 Tyr Leu Pro Lys Val Gly Ser Arg
 65 70

<210> 32696
 <211> 101
 <212> PRT
 <213> A.fumigatus

<400> 32696
 His Val Arg Gln Ile Gly Gly Arg Cys Gly Arg Val Ser Gln Asp Leu
 1 5 10 15
 Leu Asn Val Ser Ile Pro Pro Val Ala Leu Trp Asp Gly Ser His Met
 20 25 30

12892

Glu Phe His Ser Pro Leu Glu Ile Tyr Ser Phe Val Leu Ser Ser Cys
 35 40 45
 Gly Ala Ala Met Ile Gly Glu Asp Ser Gln Thr Glu Ser Gly Pro Pro
 50 55 60
 His Leu Ser Phe Asn Leu Val Ser His Ser Thr Val Lys Val Lys Lys
 65 70 75 80
 Val Gly Lys Ile Ser Thr Ser Thr Asp Ile Asp Thr Arg Ala Ile Glu
 85 90 95
 Tyr Ser Ser Arg Ser
 100

<210> 32697
 <211> 65
 <212> PRT
 <213> A.fumigatus

<400> 32697
 Arg Ser Pro Val Leu Lys Gly Phe Ser Ile Pro Leu His Leu Asp Leu
 1 5 10 15
 Val Gly Phe Ser Ser Pro Phe Phe Phe Ile Lys Arg Ala Gln Ser Val
 20 25 30
 Gly Thr Lys Cys Phe Gln Cys Phe Arg Phe Thr Ser Val Trp Val Phe
 35 40 45
 Ser Met Leu Leu Thr Leu Asp Gly Gly Leu Ala Tyr Ile Phe Leu Gly
 50 55 60
 Phe
 65

<210> 32698
 <211> 90
 <212> PRT
 <213> A.fumigatus

<400> 32698
 Arg Glu Lys Phe Ser Ile His Ala Glu Ile Tyr Ala Thr Ser Thr Ala
 1 5 10 15
 Asn Leu Gln Pro Pro Leu Asp Glu Asn Ala Leu Leu Gln Glu Leu Val
 20 25 30
 Ala Gln Phe Leu Thr His Glu Gly Tyr Val Asp Thr Ala Arg Ala Phe
 35 40 45
 Ser Glu Glu Val Ala Ala Glu Ser Ala Ala Leu Glu Asn Gly Arg Lys
 50 55 60
 Glu Ser Leu Thr Lys Tyr Glu Ala Gly Glu Gly Leu Asp Ala Ile Asn
 65 70 75 80
 Arg Gln Ser Lys Ile Thr Pro Ala Phe His
 85 90

<210> 32699
 <211> 244
 <212> PRT
 <213> A.fumigatus

<400> 32699
 Ala Ser Leu Thr Ser Leu Arg Val Glu Ile Arg Ala Ala Ile Leu Glu
 1 5 10 15
 Gly Asp Ile Asp Lys Ala Leu Lys Tyr Thr Asn Ala Tyr Tyr Gly Asn

12893

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      20      25      30
Val Leu Glu Ser Tyr Pro His Ile Gln Phe Lys Leu Arg Cys Arg Lys
      35      40      45
Phe Leu Glu Met Met Arg Arg Cys Asn Glu Leu Ser Ser Ala Ala Ser
      50      55      60
Lys Lys Gly Lys Ala Ser Asn Gly Leu Ser Asp Gly Ser Ala Val Phe
      65      70      75      80
Asp Gln Glu Met Glu Leu Asp Glu Gln Leu Gln Glu Gly Asp Gly Trp
      85      90      95
Asp Thr Glu Gly Met Asp Thr Glu Glu Ser Glu Asn Ser Gly Lys Phe
      100      105      110
His Glu Leu Leu Thr Glu Ala Val Gln Tyr Gly Gln Gln Leu Arg Met
      115      120      125
Asp Tyr Pro Asn Asp Glu Arg Gly Gly Asp Lys Lys Val Leu Asp Asp
      130      135      140
Ile Phe Ser Leu Val Ala Tyr Gln Asp Pro Lys Arg Ser Val His Gly
      145      150      155      160
His Tyr Leu Asp Pro Ala Gly Arg Val Ala Ile Ala Glu Glu Leu Asn
      165      170      175
Ser Ala Ile Leu Gly Gln Leu Cys Phe Ser Arg Val Leu Gln Cys Ser
      180      185      190
Gln Leu Leu Thr Leu Ile Leu Leu Leu Val Ser Leu Gly Lys Pro Ser
      195      200      205
Ser Ala Ala Leu Glu Arg Leu Tyr Gln Gln Thr Glu Val Leu Val Asn
      210      215      220
Glu Ile Ser Glu Glu Gly Gly Ala Gly Ala Phe Ile Asn Val Arg Asn
      225      230      235      240
Asp Phe Leu Leu

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<210> 32700
 <211> 110
 <212> PRT
 <213> A.fumigatus

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<400> 32700
Met Glu Leu Val Arg Glu Ser Cys Pro Ile Leu Pro Lys Met Ala Phe
1      5      10      15
Lys Asn Gly Leu Ser Glu Arg Leu Asp Glu Leu Arg Phe Pro Ser Pro
      20      25      30
Arg Ser Pro Pro Ser Glu Ser Ala Phe Pro Gly Tyr Asn Ser Leu Ser
      35      40      45
Pro Gly His Thr Ser Phe Val Ser Ala Phe Pro Arg Ser Ser Gly Asp
      50      55      60
Val Arg Ala Asn Leu Gln Arg Arg Phe Thr Thr Asp Ser Ser Lys Leu
      65      70      75      80
Ser Ser Trp Ser Tyr Leu Asn Gln Val Gly Gly Pro Ser Gln Val Ala
      85      90      95
Asp Pro Leu Asp Leu Leu Ser Ser Val Ser Phe Pro Tyr Gln
      100      105      110

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<210> 32701
 <211> 151
 <212> PRT
 <213> A.fumigatus

<400> 32701

Pro Asn Pro Pro Ala Cys Leu Leu Ala Ala Ala Ser Cys Glu Ile His
 1 5 10 15
 Ser Pro Asn His His Leu Ser Tyr Arg Phe Pro Thr Tyr Asn Gln Lys
 20 25 30
 Ala Asn Met Ser His Lys Pro Gly Gly Tyr Phe Tyr Tyr Arg Tyr Thr
 35 40 45
 Tyr Met Cys Pro Trp Thr Asp Thr Ala Gly Gln Ser Gly Thr Asp Asn
 50 55 60
 Thr Tyr His Ser Ala Val Tyr Thr Pro Val Arg Lys Gln Asp His Thr
 65 70 75 80
 Ala Gln Thr Ser Trp Tyr Asn Asn Thr Ala Met Pro Ala Val Lys Ala
 85 90 95
 Asp Ile Glu Lys Asn Phe Tyr Gly Asp Ala Asp Arg Asn Lys Gln Gly
 100 105 110
 Arg Thr Tyr Glu Arg Tyr Asn Gln Tyr Val Arg Gln Glu Gln Phe
 115 120 125
 Met Trp Cys Ser Lys Leu Pro Thr His Thr Ser Glu Gly Trp Glu Thr
 130 135 140
 Val Pro Phe Gly Lys Gln Ile
 145 150

<210> 32702

<211> 293

<212> PRT

<213> A.fumigatus

<400> 32702

Arg Val Lys Gln Thr Arg Asp Gly Ile Thr Lys Ser Asp Glu Ile Ser
 1 5 10 15
 Thr Arg Leu His Thr Leu Ser Asp Leu Ala Gln Ala Thr Ile Arg Arg
 20 25 30
 Phe Ala Asp Ile Tyr Ser Gln Gln Arg Arg Phe Gly Gly Gly Thr Gly
 35 40 45
 Ala Ala Ser Ile Leu Gln Thr Tyr Pro Gly Lys Val Gly Val Pro Ser
 50 55 60
 Ser Ile Phe Ala Arg Met Asn Ser His Glu Glu Ala Gln Glu Val Ala
 65 70 75 80
 Glu Lys Asn Phe Leu Pro Glu Asp Ala Glu Asp Leu Leu Asp Arg Leu
 85 90 95
 Val Arg Ala Val Met Lys Ala Lys Asn Gly Ser Thr Ser Ser Ala Gln
 100 105 110
 Val Lys Lys Arg Lys Pro Glu Ala Ala Glu Met Asn Gly Asn Asn Gly
 115 120 125
 Ser Ala Lys Lys Ala Arg Lys Glu Lys Glu Lys Thr Ser Arg Pro Arg
 130 135 140
 Arg Ser Ser Ala Gly Thr Thr Ser Lys Thr Pro Lys Lys Lys Lys
 145 150 155 160
 Gly Glu Asp Gly Trp Ser Ser Asp Glu Glu Gly Ala Pro Ala Glu Val
 165 170 175
 Thr Thr Ser Ala Arg Arg Arg Ser Ser Arg Gly Thr Ser Lys Arg Val
 180 185 190
 Ser Tyr Val Asp Lys Asp Ser Asp Glu Asp Asp Met Glu Val Asp Glu
 195 200 205
 Trp Gly Gln Glu Asn Asp Glu Gln Glu Asp Asn Ala Asp Asp Ala Glu
 210 215 220

12895

Ser Glu Asn Gly Ser Asp Ala Ala Glu Glu Lys Val Asp Asp Asp Ser
 225 230 235 240
 Asp Ser Glu Glu Gln Leu Ser Glu Ala Glu Glu Leu Glu Asp Pro Glu
 245 250 255
 Asp Ser Ser Glu Pro Ala Val Ala Lys Ser Glu Lys Glu Lys Pro Glu
 260 265 270
 Ala Lys Asn Lys Arg Ser Glu Lys Thr Ala Thr Leu Pro Thr Arg Arg
 275 280 285
 Ser Ser Arg Arg Gly
 290

<210> 32703
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 32703
 Lys Asp Asn Pro Gly Val Asp Ala Cys Tyr Leu Ile Asn His Glu Ile
 1 5 10 15
 Phe Gln Ser Thr Glu Ser Thr His Ile Ile Gln Arg Ser Arg Leu Ile
 20 25 30
 Phe Phe Phe Leu Asn Leu Leu Phe Trp Ala Glu Lys Thr Ile Tyr Ile
 35 40 45
 Ala Lys Gln Tyr Cys Lys Leu Tyr Ile Val Pro Gln His Gln
 50 55 60

<210> 32704
 <211> 127
 <212> PRT
 <213> A.fumigatus

<400> 32704
 Leu Val Asn Leu Leu Ile Met Leu Leu Thr Ala Leu Gln Ile Lys Glu
 1 5 10 15
 Lys Leu Gln Lys Phe Gln Asp Met His Pro Ser Asp Ala Ala Phe Met
 20 25 30
 Pro Ile Leu Lys Ser Met Met Ala Asp Leu Glu Lys His Ile Glu Glu
 35 40 45
 Glu Glu Thr Ile Asp Phe Val Lys Leu Glu Asp Ala Ile Thr Pro Lys
 50 55 60
 Glu Ser Glu Ser Leu Pro Lys Ser Phe Gly Arg Thr Lys Met Phe Val
 65 70 75 80
 Pro Thr Arg Ser His Pro Asn Thr Pro Asn Lys Pro Pro Phe Glu Thr
 85 90 95
 Val Val Gly Leu Leu Ala Ala Pro Ile Asp His Leu Ala Asp Ile Phe
 100 105 110
 Arg Lys Trp Pro Asp Asp Val Ile Asn Pro Asn Pro Ser Ser Glu
 115 120 125

<210> 32705
 <211> 76
 <212> PRT
 <213> A.fumigatus

<400> 32705
 Pro Arg Leu Val Pro Ile Thr Gly Leu Asp Gln Ala Cys Arg Gln Ser

12896

1		5		10		15									
Phe	Arg	Gly	Arg	Asp	Gly	Gly	Val	Ser	Gly	Ser	Val	Tyr	Met	Cys	Thr
		20						25					30		
Leu	Tyr	Val	Phe	Arg	Pro	Val	Ser	Pro	Leu	Ser	Leu	Asn	Lys	Val	Asn
		35					40					45			
Gly	Val	Glu	Tyr	Asn	Thr	Glu	Ala	Leu	Cys	Asp	Ser	Gly	Ser	Pro	Arg
	50					55					60				
Thr	Val	His	Ile	Leu	Leu	Ser	Phe	Trp	Gly	Tyr	Lys				
65					70					75					

<210> 32706

<211> 92

<212> PRT

<213> A.fumigatus

<400> 32706

Phe	Leu	Thr	Asn	Asn	Met	Ala	Arg	Leu	Met	Asp	Thr	Ile	Lys	Lys	Asp
1			5						10					15	
His	Arg	Glu	Leu	Glu	Glu	Tyr	Tyr	Lys	Ile	Ile	Val	Ser	Ser	Arg	Asp
		20						25				30			
Thr	Asp	Glu	Gln	Ile	Arg	Phe	Gln	Asn	Lys	Phe	Thr	Trp	Glu	Leu	Ala
	35					40					45				
Arg	His	Ala	Ile	Gly	Glu	Glu	Leu	Val	Val	Tyr	Pro	Ala	Leu	Glu	Lys
	50				55					60					
Tyr	Leu	Pro	Gly	Gly	Ala	Glu	Thr	Ala	Asp	Lys	Asp	Arg	Glu	Glu	His
65					70				75					80	
Gln	Thr	Ala	Arg	His	Cys	Ser	Asp	Leu	Ser	Ile	Phe				
				85					90						

<210> 32707

<211> 629

<212> PRT

<213> A.fumigatus

<400> 32707

Phe	Pro	Lys	Arg	Gly	Pro	Cys	Gln	Pro	Arg	Gly	Glu	Asp	Leu	Ala	Leu
1				5					10					15	
Tyr	Lys	Asp	Phe	Gln	Thr	Leu	Ile	Asp	Ala	Ser	Lys	Asp	Leu	Lys	Thr
		20						25				30			
Lys	Ile	Lys	Arg	His	Lys	Arg	Lys	Leu	Gln	Tyr	Trp	Gly	Ala	Gln	Leu
	35					40					45				
Asn	Lys	Glu	Glu	Phe	Thr	Leu	Val	Leu	Asp	Gly	Arg	Ala	Val	Lys	Phe
	50				55				60						
Lys	Gln	Val	Pro	Glu	Asn	Thr	Arg	Asp	Asp	Met	Thr	His	Thr	Pro	Ser
65				70				75						80	
Glu	Asn	Ser	Pro	Leu	Cys	Pro	Thr	Asp	Leu	Pro	Val	Lys	Val	Gly	Gly
		85						90					95		
Ala	Ser	Val	Gln	Ile	His	Ser	Thr	Pro	Thr	Ser	Asp	Leu	Thr	Ala	Ser
	100							105				110			
Arg	Asp	Asn	Thr	Gln	Gly	Asn	Gly	Gly	Leu	Pro	Pro	Ala	Ala	Ser	Met
	115				120						125				
Glu	Pro	Leu	Ser	Thr	Gln	Ser	Glu	Ser	Ser	Ile	Asp	Ser	Asp	Glu	Thr
	130				135					140					
Ala	Ser	Thr	Pro	Arg	Pro	Leu	Glu	Ser	Ser	Thr	Glu	Leu	Gln	Ala	Gly
145				150					155					160	
Ala	Leu	Lys	Arg	Lys	Arg	Asp	Thr	Val	Thr	Asp	His	Ala	Ser	Thr	Lys

				165					170					175			
Arg	Gly	Tyr	His	Gly	Thr	Arg	Ala	Asp	Asp	Gln	Leu	Ala	Gln	Pro	Val		
			180					185					190				
Leu	Ile	Lys	Ser	Glu	Ser	Met	Ser	Ser	Pro	Ile	Arg	Ile	His	Leu	Asp		
		195					200					205					
His	His	Val	Ala	Gly	Thr	His	Asp	Leu	Asp	Asp	Val	Gly	Ser	Ala	Ile		
	210					215					220						
Glu	Thr	Pro	Thr	Lys	Arg	Lys	Ser	Tyr	Arg	Leu	Asp	Gly	Leu	Pro	His		
225					230					235					240		
Glu	Leu	Pro	Ser	Asp	Thr	Thr	Lys	Ser	Pro	Leu	Pro	Arg	Asn	Pro	Thr		
				245					250					255			
Ala	Leu	Gln	Leu	Asn	Arg	His	Gln	Met	Glu	Pro	Thr	Arg	Leu	Ala	Pro		
			260					265					270				
Lys	Arg	Pro	Thr	Val	Leu	Gln	Ser	Val	Asp	Thr	Asn	Leu	Pro	Ser	Ala		
		275					280					285					
Asn	Cys	Arg	Arg	Ile	Trp	Leu	Glu	Gln	Lys	Gln	Ser	Asn	Lys	Pro	Glu		
	290					295					300						
Arg	Arg	Ser	Gly	Cys	Ala	Leu	Asp	Ser	Val	Ala	Glu	Asp	Gly	Asp	Glu		
305				310						315					320		
Ser	Leu	Lys	Leu	Val	Pro	Arg	Arg	Gly	Gln	Val	Lys	Gln	Ala	Ser	Arg		
				325					330					335			
Gly	Gln	Met	Thr	Arg	Thr	Ser	Thr	Ser	Ile	Asp	Asp	Val	Leu	Ile	Arg		
			340					345					350				
Gln	Arg	Leu	Asp	Asp	Leu	Leu	Glu	Arg	Pro	Leu	Arg	Ile	Arg	His	Pro		
		355					360					365					
Leu	His	Val	Gln	Asn	Lys	Asn	Gly	Asn	Ile	Ala	Glu	Ile	Gly	Pro	Asp		
	370					375					380						
Gln	Gln	Asp	Ile	Ser	Arg	Asp	Ala	Ser	Thr	Gln	Val	Ser	Gly	Arg	Val		
385				390						395					400		
Lys	Glu	Ala	Ser	Glu	Ser	Ser	Glu	Pro	Thr	Glu	Ser	Ala	Ile	Gly	Arg		
				405					410					415			
Pro	Ser	Ile	Ser	Ala	Gly	Asn	Arg	Glu	Lys	Ser	Lys	Ala	Ser	Pro	Gln		
			420					425					430				
Glu	Gly	Pro	Arg	Ser	His	Ser	Phe	Lys	Val	Thr	Asp	Thr	Val	Thr	Ala		
		435					440					445					
His	Ser	Glu	Asp	Ala	Pro	Phe	Arg	Ala	Arg	Pro	Leu	His	Gln	Leu	Gly		
	450					455					460						
Leu	Arg	His	Phe	Lys	Ile	Asn	Thr	Asn	Ala	Asn	Gln	Gly	Leu	Asp	Phe		
465				470						475					480		
Ala	Tyr	Asp	Thr	Val	Val	Arg	Arg	Lys	Asp	Glu	Arg	Lys	Cys	Ile	Ser		
				485					490					495			
Gly	Cys	Thr	Arg	Pro	Gly	Cys	Cys	Arg	Glu	Lys	Phe	His	Ala	Met	Ala		
			500					505					51				

610
Lys Phe Ala Asp Glu
625

615

620

<210> 32708
<211> 559
<212> PRT
<213> A.fumigatus

<400> 32708
Ser Met Asp Ile Leu Phe Ala Gln Gln Ala Leu Asn His Arg Val Arg
1 5 10 15
Leu Ser Pro Phe His Phe Ser Arg Glu His Leu His Gln Tyr Met
20 25 30
Arg Pro Ser Leu Arg Ser Lys Cys Ala Met Thr Leu Arg Asn Arg Lys
35 40 45
Lys Gln Gln Lys Ile Glu Pro Glu Thr Ala Lys Val Gly Trp Cys Leu
50 55 60
His Ile Ile Ser Gln Gln Thr Asn Val Lys Thr Ala Ser Leu Leu Leu
65 70 75 80
Asp Ala Ile Glu Asp Ala Leu Gly Leu Ala Thr Ser Glu Lys Ser Pro
85 90 95
Asp Ile Lys Glu Phe Arg Thr Ser Phe Met Glu Cys Phe Ser Cys Pro
100 105 110
Ser Asn Ser Arg Pro Pro Asn Leu Asp Ala Thr Phe Leu Cys Thr Phe
115 120 125
Asp Ala Val Ser Glu Phe Cys Thr Ser Thr Pro Pro Ser Lys Trp Leu
130 135 140
Val Ile Ser Ile Gly Thr Thr Met Leu Leu Ser Ile Leu Ala Ile Gln
145 150 155 160
Phe Thr Ala Leu Trp Leu Gln Gly Trp Arg Ser Ala Gly Trp Ile Val
165 170 175
Met Phe Ser Gly Tyr Val Gly Ile Ala Leu Gly Ile Ile Cys Ala Gly
180 185 190
Leu Leu Ile His Gly Ser Cys Val Phe Leu Gln Met Gly Ser Arg Asn
195 200 205
Ala Leu Arg Lys Glu Leu Trp Arg Asp Gly Leu Leu Ile Ala Val Lys
210 215 220
Asn Val Asp Ser Met Asp Thr Arg Gly Ser Asn Leu Met Leu Gly Gln
225 230 235 240
Tyr His Thr Gln Asn Phe Glu Ala Ala Phe Leu Arg Asp Leu Asp Met
245 250 255
Lys Gln His Ile Ala Ala Trp Val Val Ala Val Glu Leu Ser Phe Ala
260 265 270
Phe Ile Ala His Tyr Leu Gly Leu Arg Ser Cys Lys Trp Trp Val Ser
275 280 285
Val Gly Glu Leu Gly Val Cys Leu Thr Ala Ala Phe Ala Arg Ser Leu
290 295 300
Thr Lys Asp Arg Gln Gln Arg Tyr Arg Val Val Glu Lys Arg Leu Asp
305 310 315 320
Lys Arg Cys Thr Ser Thr Gly Val Ile Lys Cys Gln Gln Gly Gly Lys
325 330 335
Ile Asn Pro Ser Asn Gln Ser Asn Asn Ala Leu Asp Ile Arg Val Tyr
340 345 350
Ser Pro Ser Leu Phe Thr Gly Gln Pro Met Ser Ala Glu Asn Ile Ser
355 360 365

Trp Tyr Ala Ala Lys Leu Cys His Gln Asp Tyr His Thr Thr Ala Thr
 370 375 380
 Gln Ile Leu Lys Ile Thr Gly Met Leu Ile Lys Ser Thr Lys Met Ala
 385 390 395 400
 Gly Gln Leu Gly His Arg Ala Met Ile Val Ser Phe Leu Gly Gly Ile
 405 410 415
 Leu Val Thr Glu Gly Leu Ala Tyr Pro Asn Val Arg Met Cys Ala Gly
 420 425 430
 Phe Arg Ala Thr Val Ser Gln Leu Ala Ala His Thr Cys Leu Leu Val
 435 440 445
 Arg Leu Ile Leu Arg Gln Pro Gln Trp Met Thr Met His Pro Glu Phe
 450 455 460
 Gly Asn Gly Arg Val Pro Leu Gly Ser Val Tyr Ile Pro Pro Ile Asn
 465 470 475 480
 Ser Ile Val Asp Trp Trp Ala Met Ser Glu Tyr Arg Asn Asp Ala Leu
 485 490 495
 Asp Leu Gln Lys Asn Leu Leu Trp Ser Phe Thr Leu Val Asn Leu Ala
 500 505 510
 Phe Tyr Leu Ser Leu Leu Arg Asn His Gly Asp Asp Ile Gln Leu Met
 515 520 525
 Asp Ala Ile Asn Ala Ala His Gln Gly Ile Asp Met Glu Ala Glu Met
 530 535 540
 Ile Ala Lys His Leu Val Thr Phe Val Asp Glu Ser Leu Glu Gly
 545 550 555

<210> 32709

<211> 74

<212> PRT

<213> A.fumigatus

<400> 32709

Ser Gly Ser Asn Tyr Gly Ser Val Trp Gly Leu Trp Ser Leu Ile Arg
 1 5 10 15
 Val Phe Arg Leu Cys Ile Ile Leu Ser Ile Asn His Arg Trp Ser His
 20 25 30
 Phe Asn Ile Leu Arg Leu Ala Ile Pro Ile Gln Ser Ala Gly Asn Val
 35 40 45
 Ala Tyr Thr Thr Trp Val Asp Gln Leu Ser Asp Gly Val Leu Leu Phe
 50 55 60
 Lys Ser Thr Ser Leu Asn Asp Gly Pro Ala
 65 70

<210> 32710

<211> 865

<212> PRT

<213> A.fumigatus

<400> 32710

Ile Arg Ile Ser Arg Ser Phe His Ala Cys Gly Glu Glu Leu Gln Ser
 1 5 10 15
 Glu Arg Asp Lys Phe Glu Ala Ile Ile Gln Lys Leu Gln Ala Lys Tyr
 20 25 30
 Gln Pro Gln Gln Leu Glu Ile Gly Glu Leu Arg Lys Lys Leu Lys Asp
 35 40 45
 Thr Glu Ala Lys Leu Glu Glu Val Glu Arg Leu Gln Ala Glu His Glu
 50 55 60

12900

Ser Ile Leu Glu Met Ala Ala Leu Asp Arg Glu Met Ala Glu Glu Thr
 65 70 75 80
 Ala Asp Ala Phe Lys His Glu Cys Ala Val Leu Arg Ala Arg Val Glu
 85 90 95
 Glu Leu Glu Leu Glu Leu Glu Val Leu Lys Glu Glu Asn Glu Glu Leu
 100 105 110
 Gly Gln Val Met Thr Pro Glu Glu Lys Ser Ser His Gly Trp Leu Gln
 115 120 125
 Met Glu Lys Thr Asn Glu Arg Leu Arg Glu Ala Leu Ile Arg Leu Arg
 130 135 140
 Asp Met Thr Gln Gln Gln Glu Ser Glu Leu Arg Asp Gln Ile Lys Glu
 145 150 155 160
 Leu Gln Gln Asp Leu Glu Asp Tyr Ala Val Ile Lys Ser Gln Tyr Glu
 165 170 175
 Ala Thr Lys Glu Thr Leu Leu Val Ser Glu Asn Asn Val Glu Asp Leu
 180 185 190
 Lys Gln Gln Leu Glu Thr Ala Leu Gly Ala Glu Glu Met Ile Glu Glu
 195 200 205
 Leu Ala Asp Lys Asn Met Arg Tyr Gln Glu Glu Ile Asn Glu Leu Lys
 210 215 220
 Ala Ala Ile Glu Asp Leu Glu Ala Leu Lys Glu Ile Asn Asp Glu Leu
 225 230 235 240
 Glu Tyr Asn His Ile Glu Thr Glu Lys Gln Leu Gln Glu Glu Leu Asp
 245 250 255
 Tyr Arg Glu Ser Leu Phe Asn Glu Gln Cys Arg Lys Ile Ser Gln Gln
 260 265 270
 Asp Glu Val Ile Glu Asp Leu Glu Tyr Ser Leu Val Arg Phe Arg Glu
 275 280 285
 Leu Val Ser Thr Leu Gln Gly Asp Leu Glu Asp Met Arg Ala Ser Gln
 290 295 300
 Gln Ile Ser Glu Ala Glu Ala Asn Asp Leu Thr Ala Arg Ser Arg Ala
 305 310 315 320
 Met Met Asp Leu Asn Met Lys Leu Gln Ala Ser Met Ala Lys Thr Gln
 325 330 335
 Thr Lys Thr Ile Asp Ile Glu Leu Gly Arg Met Asn Ala Glu Glu Ala
 340 345 350
 Leu Gln His Leu Ser Ile Leu Lys Leu Tyr Leu Pro Asp Tyr Phe Glu
 355 360 365
 Gly Glu Arg Asn Ser Ile Leu Ala Leu Leu Arg Phe Lys Arg Val Ser
 370 375 380
 Phe Lys Ala Ser Leu Met Asn Asn Thr Ile Arg Glu Asn Ile Ser Glu
 385 390 395 400
 Gln Ala Ser Ile Ala Thr Gly Leu Asp Asp Ile Phe Val Ala Tyr Asp
 405 410 415
 Val Leu Glu Lys Leu Met Tyr Ile Ser Ser Leu Ser Asp Arg Phe Val
 420 425 430
 Asn Tyr Ile Ser Ser Cys Ser Thr Glu Asn Phe Glu Ser Val Lys Gly
 435 440 445
 Ala Leu Phe Glu Met Glu Pro Val Glu Arg Thr Leu Asn Phe Trp Met
 450 455 460
 Glu Gly Leu Lys Lys Asn Glu Leu Asn Leu Arg Lys Cys Ala Val Glu
 465 470 475 480
 Leu Gln Arg Ser Ile Ala Leu Leu Ser His Leu Ala Glu Thr Leu Leu
 485 490 495
 Pro Ser Ser Leu Glu Ala Phe Ala Asp Glu Leu Cys Met Arg Ser Ser
 500 505 510

12901

Leu Thr Gln Ser Tyr Ile Asp His Ala Ala Thr Cys Met Ala Arg Leu
 515 520 525
 Lys Ala Leu Leu Gln Ser Lys Ile Thr Val Pro Glu Glu Gly Asp Gly
 530 535 540
 Glu Cys Ser Leu Leu Phe Thr Lys Ala Glu Gly Phe Val Ser Gln Ala
 545 550 555 560
 Arg Gly Leu Lys Val Ala Leu Gly Lys Val Tyr Arg Thr Leu Glu Asp
 565 570 575
 Leu Lys Ser Arg Ser Leu Ser Leu Ser Gln Asp Val Ala Gly Pro Phe
 580 585 590
 Lys Ser Ala Glu Glu Ala Ala Lys Glu Leu Ser Ala Trp Thr Arg Gln
 595 600 605
 Leu Gly Glu Asn Leu Val Ile Leu Val Ser Asp Glu Ala Arg Thr Glu
 610 615 620
 Pro Leu Thr Met Glu Glu Ala Ser Lys Thr Met Ser Glu Thr Ser Thr
 625 630 635 640
 Ala Tyr Cys Leu Pro Ser Glu Gly Ser Glu Asn Lys Asp Thr Met Ser
 645 650 655
 Leu Leu His Asp Arg Leu Arg Thr Leu Ser Gly Leu Leu Glu Glu Leu
 660 665 670
 Asp Ala Val Ser Ser Asp Leu Ser Ile Thr Thr Glu Phe Glu Arg Arg
 675 680 685
 Pro Ala Pro Trp Ile Ala Arg Ala Ala Glu Leu Lys Ser Asn Lys Thr
 690 695 700
 Lys Ser Pro Asp Ala Asp Glu Glu Ile Arg Arg Leu Lys Asn Glu Ile
 705 710 715 720
 His Glu Ala Ser Thr Ala Leu Gly Val Lys Asp Lys Thr Ile Glu Glu
 725 730 735
 Gln Ala Leu Arg Val Glu Leu Val Glu Ser Arg Met Arg Glu Ala Thr
 740 745 750
 Lys Lys Ala Ser Met Ala Lys Asp Leu Glu Ser Lys Ile Glu Lys Met
 755 760 765
 Gln Ala Lys Gln Ala Asp Leu Glu Gly Val Ile Glu Thr Gln Arg Lys
 770 775 780
 Asp Leu Gln Ala Met Glu Ala Glu Arg Glu Glu Leu Lys Asn Arg Leu
 785 790 795 800
 Glu Arg Val Lys Arg Leu Ser Gly Thr Thr Gly Val Gly Thr Thr Thr
 805 810 815
 Asp Gly Val Ala Ile Asp Asn Ser Leu Ser Leu Ala Ala Met Arg Glu
 820 825 830
 Asn Glu Ala Leu Arg Ala Glu Val Ala Ser Leu Gln Ala Ala Val Arg
 835 840 845
 Phe Leu Arg Glu Glu Asn Arg Arg Ser Asn Met Leu Asp Pro Tyr Ser
 850 855 860
 Val
 865

<210> 32711

<211> 66

<212> PRT

<213> A.fumigatus

<400> 32711

Pro Thr Tyr Arg Leu Ile Ile Leu Leu Phe Tyr Ile Lys Val Ser Ser
 1 5 10 15
 Ser Leu Ile Gly Met Ala Phe Ser Gly Phe Tyr Tyr Pro Leu Ala Phe

12902

20 25 30
 Phe Ile Lys Tyr Leu Ala Phe Tyr Tyr Leu Ser Arg Ser Tyr Tyr Tyr
 35 40 45
 Ser Ser Phe Thr Ser Phe Ile Val Leu Leu Asp Leu Val Ile Lys Tyr
 50 55 60
 Leu Arg
 65

<210> 32712

<211> 524

<212> PRT

<213> A.fumigatus

<400> 32712

Ser Met Pro Lys Met Ser Lys Ala Trp Phe Thr Ile Arg Leu Trp Arg
 1 5 10 15
 Thr Ser Thr Leu Ile Ala Arg Val Arg Arg Thr Ser Arg Lys Gln Val
 20 25 30
 Lys Ala Ile Arg Arg Gly Pro Ser Ile Ala Ala Ile Ala Gly Thr Pro
 35 40 45
 Ser Met Ser Cys Thr Leu Ser Cys Gly Cys Cys Ser Pro Gly Glu Leu
 50 55 60
 Ser Ser Leu Ser Thr Ala Pro His Leu Leu Ala Val Leu Phe Asp Gln
 65 70 75 80
 Asn Pro Asn Ser Ser Val Val Val Pro Leu Arg Trp Trp Ile Ala Gly
 85 90 95
 Leu Ile Leu His Arg Tyr Asp Leu Gly Trp Leu Ile Pro Phe Leu Leu
 100 105 110
 Tyr Leu Cys Ile Thr Leu Arg Leu Leu Thr Leu Tyr Val Pro Val Ser
 115 120 125
 Ile Val Thr Arg Pro Ala Tyr Trp Val Trp Asp His Thr Ala Arg Pro
 130 135 140
 Phe Val Arg Leu Ile Pro Glu Lys Leu Arg Ile Pro Gly Ala Ala Leu
 145 150 155 160
 Leu Thr Ile Ala Val Ile Leu Val Gly Ser Phe Ala Ser Glu Glu Thr
 165 170 175
 Ala Asp Asn Thr Arg Ala Asn Arg Ala Val Ser Leu Phe Gly Leu Ile
 180 185 190
 Val Phe Val Phe Ala Leu Trp Leu Ser Ser Arg Asn Arg Lys Lys Ile
 195 200 205
 Val Trp His Thr Val Ile Val Gly Met Leu Val Gln Phe Ile Val Ala
 210 215 220
 Leu Phe Val Leu Arg Thr Lys Ala Gly Tyr Asp Ile Phe Asn Phe Val
 225 230 235 240
 Ser Thr Leu Ala Arg Glu Leu Leu Gly Phe Ala Asp Asp Gly Val Asp
 245 250 255
 Phe Leu Thr Glu Thr Gly Phe Ala Ser Lys His Ser Trp Phe Leu Val
 260 265 270
 Thr Val Ile Pro Ala Ile Ile Phe Phe Val Ser Leu Val Gln Leu Leu
 275 280 285
 Tyr Tyr Ser Gly Val Leu Gln Trp Ala Ile Gly Lys Phe Ala Val Phe
 290 295 300
 Phe Phe Trp Ser Met Arg Val Ser Gly Ala Glu Ala Val Val Ala Ala
 305 310 315 320
 Ala Ser Pro Phe Ile Gly Gln Gly Glu Ser Ala Met Leu Ile Lys Pro
 325 330 335

12903

Phe Val Ala His Leu Thr Met Ala Glu Ile His Gln Val Met Cys Ser
 340 345 350
 Gly Phe Ala Thr Ile Ala Gly Ser Val Leu Val Ala Tyr Ile Gly Met
 355 360 365
 Gly Val Asn Pro Gln Ala Leu Val Ser Ser Cys Val Met Ser Ile Pro
 370 375 380
 Ala Ser Leu Ala Ala Ser Lys Leu Arg Trp Pro Glu Glu Glu Glu Thr
 385 390 395 400
 Leu Thr Ala Gly Arg Val Val Val Pro Glu Asp Glu Glu His Lys Ala
 405 410 415
 Glu Asn Ala Leu His Ala Phe Ala Asn Gly Ala Trp Leu Gly Ile Lys
 420 425 430
 Ile Ala Gly Thr Ile Gly Ala Thr Leu Leu Cys Ile Ile Ser Phe Val
 435 440 445
 Ala Leu Ile Asn Gly Leu Leu Thr Trp Trp Gly Arg Tyr Leu Asn Ile
 450 455 460
 Asn Asp Pro Pro Leu Thr Leu Asp Leu Ile Leu Gly Tyr Ile Cys Asn
 465 470 475 480
 Pro Ile Ala Phe Leu Leu Gly Val Ser Arg Asp Gly Asp Leu Leu Arg
 485 490 495
 Val Gly Lys Leu Ile Gly Val Lys Leu Val Met Val Arg Phe Tyr Pro
 500 505 510
 Phe Thr Leu Arg Ser Pro Ser Gly Arg Thr Arg His
 515 520

<210> 32713

<211> 97

<212> PRT

<213> A.fumigatus

<400> 32713

Ser Asn Tyr Phe Gln Asn Glu Phe Val Ala Tyr Ser Asp Leu Gln Thr
 1 5 10 15
 Lys Pro Glu Tyr Gln Glu Leu Ser Val Arg Ser Arg Ile Ile Val Thr
 20 25 30
 Tyr Ala Leu Cys Gly Phe Ala Asn Ile Gly Ser Leu Gly Asn Gln Ile
 35 40 45
 Gly Val Leu Asn Gln Leu Ala Pro Gln Arg Ala Gly Asp Val Ser Arg
 50 55 60
 Val Ala Val Ser Ala Met Ile Thr Gly Ala Leu Ala Thr Phe Thr Ser
 65 70 75 80
 Ala Ala Ile Ala Gly Leu Leu Ile Thr Glu Glu Gly Lys Tyr Leu Ser
 85 90 95
 Gln

<210> 32714

<211> 60

<212> PRT

<213> A.fumigatus

<400> 32714

Ala Pro Arg Gln Gly Leu Val Gln Lys Arg Lys Gly Thr Tyr Thr Val
 1 5 10 15
 Glu Val Leu Ile Leu Arg Ala Ala Ile Met Tyr Leu Pro Phe Val Glu
 20 25 30

12904

Gln Leu Tyr Pro Ala Trp Asn Leu Asp His Thr Phe Glu Asp Val Gly
 35 40 45
 Phe Ile Leu Phe His Leu Gly Leu Arg Ile Leu Ser
 50 55 60

<210> 32715
 <211> 537
 <212> PRT
 <213> A.fumigatus

<400> 32715
 Arg Gln Pro Pro Lys Ser Phe Ser Pro Pro Val Leu Gln Ser Gln
 1 5 10 15
 Ser Val Pro Asn Val Leu Ser Ala His Arg Val Gln Ala Ser Gln Gln
 20 25 30
 Ala His Tyr Gly Asp Ala Thr Val Ser Ala Ala Leu Thr Glu Pro Phe
 35 40 45
 Ser Asn Leu Glu Leu Asn Val Asp Asn Asn Ala Lys Ala Pro Lys Val
 50 55 60
 Ala Pro Gln Thr Glu Lys Pro His Asp Thr Leu Asp Asp Asn Glu Gly
 65 70 75 80
 Leu Ala Pro Leu Gln Ala Ala Ser Gln Phe Thr Thr Lys Arg Ser Arg
 85 90 95
 Arg Ser Gly Arg Thr Gly His Pro Gln Asn Val Ala Gly Asn Glu His
 100 105 110
 Asp Gly Ala Asn Asn Thr Asn Pro Lys Thr Lys Gly Trp Arg Gln Thr
 115 120 125
 Ala Phe Val Gln Pro Ala Asp Thr Ser Glu Phe Lys Thr Pro Gln Asn
 130 135 140
 Tyr Lys Glu Asn Phe Pro Asp Pro Ala Gly Arg Arg Lys Lys Lys
 145 150 155 160
 Gly Arg Gly Tyr Ala Glu Asp Pro Asn Gly Trp Ala Thr Glu Asp Ala
 165 170 175
 Thr Asp Ile Gln Glu Met Gly Asp Phe Asp Phe Glu Ser Asn Leu Ser
 180 185 190
 Lys Phe Asp Lys Arg Arg Val Phe Glu Glu Ile Arg Asn Asp Asp Thr
 195 200 205
 Thr Ala Asp Glu Asp Arg Leu Val Ser Phe Asn Arg Arg Pro Arg Pro
 210 215 220
 Gly Thr Asn Gly Gly Lys Asn Leu His Trp Thr Glu Asn Val Leu Asp
 225 230 235 240
 Ser Pro Gln Asp Ser Asp Asn Ala Asp Ser Asp Leu Gly Arg Ser Asp
 245 250 255
 Ala Lys Leu Gly Ser Gly Ser Tyr Ser Gly Arg Glu His Ser Arg Thr
 260 265 270
 Ser Gly Arg Ala Arg Glu Ser Arg Lys Gly Ser Ala Ala Leu Gly Gln
 275 280 285
 Pro Pro Val Ala Pro Gln Ile Asn Ser Ile Gly Arg Ser Gln Leu Ser
 290 295 300
 Ser Ser Arg Thr Thr Ser Pro Arg Pro Asn Lys Thr Pro Met Ser Ala
 305 310 315 320
 Ser Pro Met Thr Gly Ala Val Gly Pro Gly Ala Ser Leu Arg Leu Thr
 325 330 335
 Thr Thr Asn Arg Ser Cys Pro Thr Val Ser Pro Leu Gln Thr Leu Glu
 340 345 350
 Val Glu Gln Ile Ala Val Ala Glu Leu Gly Leu Thr Glu Asp Met Ile

355 360 365
 Thr Glu Asn Ala Gly Arg Asp Ile Ala Glu Ala Ala Val Gly Leu Leu
 370 375 380
 Ser Asn Asp Ala Ala Ala Pro Thr Ile Leu Val Leu Thr Gly Asn His
 385 390 395 400
 Arg Thr Gly Ala Arg Ala Val Ser Ala Ser Arg His Leu Arg Asn Arg
 405 410 415
 Gly His Arg Val Thr Leu Cys Val Leu Gly Leu Glu His Glu Asn Glu
 420 425 430
 Leu Leu Glu Ser Cys Arg Lys Gln Leu Asp Val Phe Lys Lys Ile Gly
 435 440 445
 Gly Arg Val Phe Arg Trp Glu Asp Leu Ser Ala Gln Leu Ser Ser Ser
 450 455 460
 Asp Phe Ala Pro Asp Leu Val Val Asp Ala Leu Phe Gly Ile His Ile
 465 470 475 480
 Ser Phe Glu Asp Leu Arg Thr Asp Asp Gln Ala Ile Ala Phe Glu Met
 485 490 495
 Ile Ala Trp Val Asn Arg Ser Asn Leu Asp Ile Leu Ser Val Asp Val
 500 505 510
 Pro Ser Gly Leu Ser Ala Ser Ser Gly Glu Phe Glu Ser Phe Phe Leu
 515 520 525
 Cys Met Pro Ala Lys Ser Leu Thr Leu
 530 535

<210> 32716

<211> 395

<212> PRT

<213> A.fumigatus

<400> 32716

Leu Cys Leu Gln Tyr Ala Leu Leu Thr Glu Ile Leu Lys Lys Ala Gly
 1 5 10 15
 Val Pro Ser Ser Arg Leu Val Gln Leu Ile Lys Asp Phe His Ile Ile
 20 25 30
 Pro Ser Trp Thr Asp Ile Pro Leu Pro Thr Gly Ile Asp Met Pro Ala
 35 40 45
 Leu Cys Leu Ser Pro Val Phe Ser Ser Phe Gly Cys Val Arg Leu Met
 50 55 60
 Ser Tyr Leu His Cys Val Glu Val Phe Val Lys Val Arg Val Asn Gly
 65 70 75 80
 Ser Ala Trp Leu Leu Leu Ile Tyr Phe Val Pro Gly Arg Ser Leu Asn
 85 90 95
 Ser Cys Gln Phe Ala Phe His Thr Met Cys Gln Glu Gln Gln Gln
 100 105 110
 Gln Gln Gln Gln Gln Leu Gln Gln Pro Gln Met Ser Val Pro Val Asn
 115 120 125
 Pro Gly Leu Val Pro Phe Pro Pro Pro Arg His Glu Leu Ser Ala Pro
 130 135 140
 Thr Ala Val Arg Pro Glu Ala Ser His Met Arg Lys Arg Pro Leu Phe
 145 150 155 160
 Leu Leu Asp Lys Gln Pro Leu Ala Pro Arg Ala Ile Gln Pro Arg Pro
 165 170 175
 Ala Ala Ser Thr Ala Ser Tyr Ser Ser Glu Ser Ser Ala Ser Ala Leu
 180 185 190
 Leu Ser Pro Ser Leu Glu Ser Thr Thr Thr Lys Gly Glu Pro Pro Arg
 195 200 205

Lys Arg Gly Arg Pro Ser Lys Ala Glu Ala Glu Arg Arg Lys Ala Ala
 210 215 220
 Ala Glu Ala Arg Gly Glu Ala Tyr Pro Pro Pro Arg Arg Ser Gly Pro
 225 230 235 240
 His Arg Leu Lys Ala Pro Ser Thr Pro Ala Asn Pro Pro Asp Val Met
 245 250 255
 Ser Ser Gly Thr Ser Phe Thr Pro Gln Ala Gly Leu Arg Pro Leu Glu
 260 265 270
 Val Gln Asn Pro Glu Leu Arg Tyr Ala Pro Pro Pro Gly Arg Pro Val
 275 280 285
 Thr Leu Met Ala Pro Ile Asp Asp Gly Arg Ala Arg Gly Ala Pro Thr
 290 295 300
 Arg Asp Thr Gly Pro Ile Ile Arg Glu Leu Pro Arg Pro Thr Asp Pro
 305 310 315 320
 Arg Gln Thr Leu Pro Ser Pro Gln Pro Leu Gln Met Ser His Ala Glu
 325 330 335
 Ser Val Ala Arg Met Asp Pro Gly Glu Arg Pro Phe Glu Pro Arg Pro
 340 345 350
 Ser Glu Arg Phe Ser Phe Gly Asp Gly Ser Arg Arg Ile Leu Thr Asp
 355 360 365
 Pro Ala Ser Arg Arg Pro Glu Ala Pro Ala Leu Pro Thr Pro Glu Leu
 370 375 380
 Pro Ala Thr Thr Leu Ala Glu Arg Lys Pro Glu
 385 390 395

<210> 32717

<211> 95

<212> PRT

<213> A.fumigatus

<400> 32717

Cys Val Val Ala Glu Asn Lys Val Leu Ile Val Ala Leu Gly Arg Leu
 1 5 10 15
 Thr Pro Leu Ile Arg Gln Met Met Ser Pro Asn Val Glu Val Gln Cys
 20 25 30
 Asn Ala Val Gly Cys Ile Thr Asn Leu Ala Thr His Glu Asp Asn Lys
 35 40 45
 Ala Lys Ile Ala Arg Ser Gly Ala Leu Gly Pro Leu Ile Arg Leu Ala
 50 55 60
 Lys Ser Lys Asp Met Arg Val Gln Arg Asn Ala Thr Gly Ser Leu Leu
 65 70 75 80
 Asn Met Thr His Ser Gly Asn Leu Gly Cys Val Ile Lys Arg Phe
 85 90 95

<210> 32718

<211> 66

<212> PRT

<213> A.fumigatus

<400> 32718

Ser Ser Thr Gly Val Leu Lys Thr Cys Gly Asn Asp Thr Pro Ile Asn
 1 5 10 15
 Asp His Cys Leu Tyr Asp Asn Gln Ser Lys Ser Cys Thr Val Ile Met
 20 25 30
 Ile Ser Leu Thr Gly Phe Pro Asn Tyr Lys Val Glu Ala Leu Arg Leu
 35 40 45

12907

Ile Asp Ser Met Ile Ser Val Val Ala Asn Gly Val Gly Gln Ile Thr
 50 55 60
 Leu Ser
 65

<210> 32719
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 32719
 Leu Ser Glu Val Arg His Ile Val Ala Met Lys Pro Glu Val Gly Thr
 1 5 10 15
 Asp Val Ile Ile Val Ala Asp Val Arg Glu Val Asp Arg Asp Thr
 20 25 30
 Leu Glu Pro Ile Leu Phe Leu Leu Gln Ser Ser Asp Ile Glu Val Gln
 35 40 45
 Arg Ala Ala Ser Ala Ala Leu Gly Asn Leu Ala Val Asn Gly Leu Ser
 50 55 60
 Leu Asn Leu Ile Ser Ser Ser Ser Thr Ala Asp Val Leu
 65 70 75

<210> 32720
 <211> 84
 <212> PRT
 <213> A.fumigatus

<400> 32720
 Ala Val Leu Ile His Arg His Ile Glu Met Phe Ser Asp Glu Lys Lys
 1 5 10 15
 Asp Leu Pro Leu Ser Glu Asp Asp Gly Phe Thr Thr Phe Ala Lys Ser
 20 25 30
 Asn Ser Ser Ser Lys Asn Lys Lys Asn Gln Glu Ser Asn Leu Lys Ile
 35 40 45
 Ser Ile Trp Leu Asp Leu Val Val Glu Val Asp Ile Lys Ile Lys Ala
 50 55 60
 His Leu Tyr Ser Asp Ile Val Ile Ser Leu Leu Gln Val Ala Gly Met
 65 70 75 80
 Thr Ile His Gly

<210> 32721
 <211> 140
 <212> PRT
 <213> A.fumigatus

<400> 32721
 Ser Ala Thr Val Pro His Thr Tyr Leu Arg Phe Glu Thr Val Ala Ser
 1 5 10 15
 Glu Ala Phe Trp Pro Pro Ile Thr Glu Gly Met Thr Ala Ile Ala Asn
 20 25 30
 Ala Cys Leu Ser Cys Leu Ser Ala Val Asp Arg Trp Cys His Ile Thr
 35 40 45
 Ala Cys Leu Gly Pro Ile Gly Gly Arg Ser Arg Asp Gly Ile Tyr Glu
 50 55 60
 Thr Thr Leu Ala Asp Asn Glu Arg Glu Ala Val Ser Asp Leu Leu Gly

12908

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65              70              75              80
Tyr Leu Glu Asn Val Arg Leu Ala Leu Ser Ser Met Pro Leu Arg Phe
              85              90              95
Ala Ser Asn Ile Ile Ile Asn Val Leu Gly Pro Leu Ser Ala Val Glu
              100              105              110
Ala Asp Phe Thr Cys Val Leu Ala Ser Arg Asn Arg Leu Leu Leu Arg
              115              120              125
Arg Thr Ser Ser Arg Pro Glu His Leu Gly Leu Phe
              130              135              140

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<210> 32722
 <211> 63
 <212> PRT
 <213> A.fumigatus

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<400> 32722
Phe Val Asn Val Asn Phe Phe Leu Pro Leu Phe Ile Cys Arg Ile Arg
1              5              10              15
Pro Ser His Ala Phe Leu Ser Ala Met Asn His Thr Ser Phe Phe Tyr
              20              25              30
Ser Pro Asp Lys Ala Thr Ser Glu His Phe Ala Asn Ser Leu Gln Gly
              35              40              45
Gln Leu Ser Ala Asp Pro Asn Val Phe Ile Val Arg Ser Ile Arg
              50              55              60

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<210> 32723
 <211> 546
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (444), (467), (499)
 <223> Identity of amino acid sequences at the above locations are unknown.

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<400> 32723
Arg Leu Tyr Leu Ser Asp Pro Asp Pro Arg Thr Val Pro Arg Asp Ser
1              5              10              15
Arg Ser Gly Gln Val Thr Pro Ile Glu Glu Arg Asp Pro Asp Ala Tyr
              20              25              30
Val Glu Arg Pro Thr His Tyr Arg Gly Gly Ile Leu Ser Ser Leu Leu
              35              40              45
Lys Leu Tyr Asp Gln Ser Ser Gly Ser Ser His Tyr Ser Arg Gly Arg
              50              55              60
Tyr Gly His Ser Arg Gln Ser Ser Leu Gly Glu Val Ser Ser Arg Gly
65              70              75              80
Leu Ser Pro Asp Pro Gly Trp Lys Gln Pro Gln Arg Gln Arg Lys Trp
              85              90              95
Tyr Glu Lys Ser Pro Ser Gln Ser Ser Thr Ser Leu Ser Gly Ser Thr
              100              105              110
Asp Lys Asn Ser Ser Ser Ser Pro Ile Ala Met Leu Lys Arg Ser Arg
              115              120              125
Ser Ser Gly Pro Ile Pro Gly Ser Gly Gly Lys Arg Trp Thr Lys Pro
              130              135              140
Arg Leu Glu Asp Glu Ile Arg Ile Thr Val His Ile Ala Glu Leu Leu
145              150              155              160

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12909

Ser Arg Gln Arg Tyr Leu Ile Arg Leu Cys Arg Ala Leu Met Lys Tyr
 165 170 175
 Gly Ala Pro Thr His Arg Leu Glu Glu Tyr Met Thr Met Thr Ala Arg
 180 185 190
 Val Leu Glu Ile Asp Gly Gln Phe Leu Tyr Ile Pro Gly Cys Met Ile
 195 200 205
 Ile Ser Phe Asp Asp Ala Ser Thr His Thr Thr Glu Val Lys Val Val
 210 215 220
 Arg Ser Ala Gln Gly Val Asp Leu Gly Lys Leu Ser Asp Val His Ile
 225 230 235 240
 Val Tyr Lys Glu Val Ile His Asp Val Ile Gly Val Glu Glu Ala Ile
 245 250 255
 Gln Arg Leu Glu Glu Ile Met Lys Lys Lys Asn Lys Tyr Ser Val Trp
 260 265 270
 Met Leu Ile Leu Val His Gly Phe Ala Ser Ala Ser Val Gly Pro Phe
 275 280 285
 Ala Phe Asn Ala Arg Pro Ile Asp Leu Pro Ile Ala Phe Leu Leu Gly
 290 295 300
 Cys Leu Leu Gly Val Leu Gln Leu Val Leu Ser Pro Arg Ser Asn Leu
 305 310 315 320
 Tyr Ser Asn Val Phe Glu Ile Ser Ala Ala Val Met Thr Ser Phe Leu
 325 330 335
 Ala Arg Ala Phe Gly Ser Ile Arg Tyr Glu Gly Glu Arg Leu Phe Cys
 340 345 350
 Phe Ser Ala Leu Ala Gln Ser Ser Ile Ala Leu Ile Leu Pro Gly Tyr
 355 360 365
 Leu Val Leu Cys Ala Ser Leu Glu Leu Gln Ser Arg Ser Ile Val Ala
 370 375 380
 Gly Ser Val Arg Met Val Tyr Ala Ile Ile Tyr Ser Met Phe Leu Gly
 385 390 395 400
 Phe Gly Ile Thr Ile Gly Thr Ala Val Tyr Gly Leu Leu Asp Ser Asn
 405 410 415
 Ala Ser Thr Glu Tyr Thr Cys Pro Pro Ser Pro Ile Arg Asp Glu Tyr
 420 425 430
 Leu Gln His Phe Pro Phe Val Ile Leu Phe Thr Xaa Cys Leu Ala Leu
 435 440 445
 Val Asn Gln Ala Lys Trp Arg Gln Ile Pro Val Met Leu Phe Ile Ala
 450 455 460
 Phe Ala Xaa Tyr Val Thr Asn Tyr Phe Gly Ala Lys Arg Phe Ala Ser
 465 470 475 480
 Ser Thr Gln Val Ser Ser Ala Leu Gly Ala Phe Val Val Gly Val Leu
 485 490 495
 Gly Asn Xaa Tyr Ser Arg Leu Arg His Gly Leu Ala Ala Ala Met
 500 505 510
 Leu Pro Ala Ile Phe Val Leu Val Pro Ser Gly Leu Ala Ala Ser Gly
 515 520 525
 Ser Leu Ile Ser Ser Pro Arg Gly Arg Lys Glu Pro Arg Asn Ala Trp
 530 535 540
 Val Ser
 545

<210> 32724

<211> 433

<212> PRT

<213> A.fumigatus

<400> 32724

Arg Lys Ala Leu Ile Met Ala Gly Gly Tyr Phe Asp Leu Pro Ile Ser
 1 5 10 15
 Ser Ser Arg Arg Ser Ser Leu Ala Asp Glu Phe His Asn Ala Ser Arg
 20 25 30
 Pro Ala Pro Pro Pro Arg Thr Ser Pro Leu Val Thr Pro Asn Glu Gly
 35 40 45
 Ser Ser Gln Glu Lys Pro Leu Gly Phe Ile Asn Thr Pro Gly Arg His
 50 55 60
 Arg Asn Ala Gly Ile Leu Lys Ser Ala Asn Arg Val Lys Phe Thr Val
 65 70 75 80
 Ser Glu Ala Gly Leu Leu Glu Ala Pro Ala Ala Gly Ser Thr Ser Glu
 85 90 95
 Thr Arg Phe Asp Ser Arg Gly Ser Ser Leu Pro Gln Arg Pro Leu Arg
 100 105 110
 Ala Ala Ser Ile Pro Val Ala Glu Arg Ala Pro Gln Ser Ile Ser Ser
 115 120 125
 Val Tyr Pro Gly Ser Asn Ala Pro Ala Gly Val Thr Gly Leu Ala Asp
 130 135 140
 His Ser Gln Ala Ala Ser Ser Glu Ile Ser Arg Asp Tyr Glu Ile Ser
 145 150 155 160
 Gly Glu Lys Gly Arg Ala Phe Gln Phe Ala Gln Glu Arg Ala Gln Arg
 165 170 175
 Leu Ala Ser Leu Leu Gly Arg Thr Ser Lys Ser Pro Arg Pro Ser Pro
 180 185 190
 Arg Ser Ser Val Pro Ser Ser Val Ala Ser Thr Pro Thr Glu Val Val
 195 200 205
 Pro Pro Ser Glu Asp Gly Ser Asp Ile Pro Met Ile Asn Leu Ser Glu
 210 215 220
 Lys His Phe Asp Asp Asp Phe Pro Asp Glu Asp Glu Asp Gly Leu Val
 225 230 235 240
 Asp Gly Arg Thr Leu Thr Arg Thr Ser Glu Ala His Gln Leu Val Arg
 245 250 255
 Gln Met Thr Arg Lys Asp Phe Thr Phe Leu Thr Arg Ile Arg Ala Arg
 260 265 270
 Ser Pro Gly Thr Pro Ala Leu Gly Arg Ser Pro Gln Ser Lys Arg Glu
 275 280 285
 Ile Arg Thr Pro Met Ser Ser Gly Arg Pro Ile Ile Ala Gly Ala Ser
 290 295 300
 Ser His Pro Ser Ser Ser Tyr Thr Thr Ser Leu Pro Ala Ala Ala Thr
 305 310 315 320
 Ile Pro Ala Ala Gly Met Ala Thr Pro Val Arg Ala Val Trp Glu Arg
 325 330 335
 Ser Val Ala Gly Ala Ser Arg Arg Thr Pro Val Gly Asn Asn Pro Ser
 340 345 350
 Asp Asn Gly Ser Gly Thr Lys Asn Pro Arg Ala Asn Leu Ala Pro Pro
 355 360 365
 Ser Pro Ala Arg Arg Thr Arg Thr Arg Pro Ala Arg Pro Leu Arg Cys
 370 375 380
 Ser Ser Ala Arg Gly Ala Val Val Pro Ser Leu Val Arg Ala Ala Asn
 385 390 395 400
 Ala Gly Pro Asn Pro Gly Trp Arg Met Arg Ser Ala Leu Leu Ser Ile
 405 410 415
 Ser Pro Ser Cys Ser Arg Ala Ser Asp Ile Ser Ser Asp Cys Val Gly
 420 425 430
 His

<210> 32725
 <211> 166
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (81), (104), (136)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32725
 Phe Cys Pro Gly Thr Trp Cys Cys Ala Pro Val Trp Asn Cys Ser Arg
 1 5 10 15
 Ala Ala Leu Ser Pro Ala Pro Cys Ala Trp Phe Thr Pro Leu Ser Thr
 20 25 30
 Gln Cys Ser Leu Asp Ser Ala Ser Gln Ser Glu Pro Gln Cys Thr Ala
 35 40 45
 Cys Trp Thr Arg Thr Pro Arg Pro Ser Thr His Ala Pro Arg Ala Gln
 50 55 60
 Ser Ala Thr Ser Thr Cys Ser Thr Ser Leu Ser Ser Ser Phe Ser Leu
 65 70 75 80
 Xaa Ala Ser Arg Ser Leu Ile Arg Pro Asn Gly Ala Arg Ser Leu Ser
 85 90 95
 Cys Phe Ser Ser Pro Ser Pro Xaa Thr Ser Pro Thr Thr Ser Ala Leu
 100 105 110
 Ser Ala Ser Pro Pro Ala Arg Arg Phe Pro Pro Pro Ser Ala Pro Leu
 115 120 125
 Ser Leu Ala Ser Trp Ala Thr Xaa Thr Ala Ala Ser Val Thr Ala Ser
 130 135 140
 Gln Pro Gln Pro Cys Ser Pro Pro Phe Ser Phe Ser Ser Pro Pro Asp
 145 150 155 160
 Ser Leu Pro Ala Ala Pro
 165

<210> 32726
 <211> 204
 <212> PRT
 <213> A.fumigatus

<400> 32726
 Arg Phe Ile Tyr Pro Ala Gln Phe Cys Leu Leu Ser Ile Pro Asn Val
 1 5 10 15
 Glu Ser Ser Val Phe Pro Leu Thr Gln Phe Pro Val Ser Trp Thr Leu
 20 25 30
 Phe His Pro Leu Pro Leu Gly Thr Ala His Arg Pro Ile Phe Cys Pro
 35 40 45
 Ser Ala Ala Leu Asn Gly Arg Trp Arg Gln Leu Asp Ala Pro Val Arg
 50 55 60
 Ala Met Ala Thr Arg Leu Pro Pro Leu Asn Asp Val Ala Pro Ser Ser
 65 70 75 80
 Ala Leu Glu Ser Ser Ser Ser Val Ser Thr Thr Pro Ala Pro Ala Ala
 85 90 95
 Ala Ser Ala Thr Val Leu Val Ser Ala Thr Ala Ser Ile Pro Leu Thr
 100 105 110

12912

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Ser Asn Pro Ser Ser Thr Val Leu Ser Thr Pro Asn Gln Asp Pro Asp
      115              120              125
Cys Val Lys Gln Glu Ala Ser Pro Thr Pro Ser Gly Phe Thr Ser Ala
      130              135              140
Asp Gly Asp Thr Pro Val Ala Asp Asn Gly Gly Ser Thr Ala Ala Ala
145              150              155              160
Gly Arg Lys Arg Lys Leu Asn Ser Thr Ser Ser Arg Gly Val Ala Asn
      165              170              175
Leu Thr Pro Glu Gln Leu Ala Lys Lys Arg Ala Asn Asp Arg Gln Ala
      180              185              190
Pro Ala Gly Asp Pro Gly Ala Asp Gln Ile Ala His
      195              200

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<210> 32727

<211> 467

<212> PRT

<213> A.fumigatus

<400> 32727

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Leu Pro Ser Ser Trp Pro Arg Ser Glu Arg Met Ile Gly Arg Pro Gln
1           5           10           15
Arg Ala Ile Arg Glu Arg Thr Lys Ser His Ile Glu Ser Leu Glu Gln
      20           25           30
Arg Val His Glu Leu Ser Ser Gln Lys Pro Phe Leu Asp Leu Gln Ala
      35           40           45
Ala Leu Lys Arg Asn Glu Ala Ile Gln Ala Glu Asn Arg Asp Leu Lys
      50           55           60
His Gly Leu Lys Ala Val Met Asp Ile Ile Gln Pro Leu Val Ala Lys
65           70           75           80
Gln Asp Pro Ser Glu Cys Ser Leu Val Leu Phe Met Asn Cys Ser Cys
      85           90           95
Gly Leu Ser Leu Thr Gln Trp Thr Ile Asp Gln Pro Ala Pro Pro Pro
      100          105          110
Ala Pro Ser Gln Pro Leu Asp Pro Ser Phe Ser Pro Leu Arg Tyr Thr
      115          120          125
Glu Thr His His Phe Thr Ser Thr Gly Gln Arg Tyr Glu Ser Ser Tyr
      130          135          140
Thr Thr Thr Thr Ser Gly Ala Asp Thr Pro Thr Ser Thr His Ser Ala
145          150          155          160
Pro Thr Met Ser Ala His Arg Arg Asp Ser Ser Ser Asn Gly Leu Ala
      165          170          175
Ser Phe Arg Ile Ala Phe Asp Tyr Gln Arg His Asn Leu Ala His Gly
      180          185          190
Leu Asp Phe Gly Thr Asp Glu Arg Leu Gly Phe Asn Phe Leu Leu Asp
      195          200          205
Ala Ser Gln Gln Val Pro Arg Val Glu Gly Phe Arg Arg Ser Thr Glu
      210          215          220
Ser Phe Arg Pro Cys Gln Ala Asp Leu Pro Pro Val Tyr Thr Pro Ser
225          230          235          240
Pro Cys Gly Pro Ala Pro Glu Gln Pro Leu Pro Ala Tyr Lys Thr Pro
      245          250          255
Ile Arg Asn Ile Ala Pro Thr Cys Thr Leu Asp Ala Ile Leu Leu Asp
      260          265          270
Phe Leu Gln Ser Arg Arg Arg Lys Ala Ala Glu Gly Val Pro Thr Gln
      275          280          285
Lys Leu Val Gly Pro Pro Tyr Pro Ser Val Ser Ser Leu Leu Asn Pro

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12913

290 295 300
 Glu Lys Ser Val Tyr Ser His Pro Leu Ser Lys Val Phe Val Asp Ile
 305 310 315 320
 Leu Arg Ala Phe Pro Asp Ile Ser Ser Leu Pro Glu Gln Val Ala Val
 325 330 335
 Leu Tyr Ser Met Phe Leu Leu Met Arg Trp Gln Ile Tyr Pro Thr Pro
 340 345 350
 Glu Asn Tyr Glu Arg Leu Pro Asp Trp Leu Thr Pro Arg Pro Ser Gln
 355 360 365
 Leu Leu Thr Pro His Pro Ala Trp Ile Asp Tyr Ile Pro Trp Pro Arg
 370 375 380
 Met Arg Asp Arg Leu Val Ala Ser Tyr Gln Asp Tyr Pro Phe Glu His
 385 390 395 400
 Trp Phe Ile Pro Phe Thr Arg Thr Leu Ser Val Asn Trp Pro Tyr Glu
 405 410 415
 Ala Thr Asp Cys Leu Leu Ser Thr Ser Asp His Glu Asp Leu Ile Ile
 420 425 430
 Asn Pro Val Phe Glu Arg His Phe Arg Asn Leu Asp Asn Trp Ser Leu
 435 440 445
 Gly Pro Ser Phe Ala Glu Ala Tyr Pro His Met Ala Glu Thr Ala Arg
 450 455 460
 Ile Lys Ser
 465

<210> 32728
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 32728
 Phe Gly Val Glu Arg Thr Val Glu Asp Gly Phe Glu Val Ser Gly Ile
 1 5 10 15
 Asp Ala Val Ala Asp Thr Asn Thr Val Ala Asp Ala Ala Gly Ala
 20 25 30
 Gly Val Val Leu Thr Asp Asp Asp Ser Arg Ala Asp Glu Gly Ala
 35 40 45
 Thr Ser Phe Lys Gly Gly Arg Arg Val Ala Met Ala Leu Thr Gly Ala
 50 55 60
 Ser Ser
 65

<210> 32729
 <211> 343
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (3)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32729
 Ala Phe Xaa Cys Ser Cys Gln Cys Leu Ser Leu Pro Gln Phe Phe Leu
 1 5 10 15
 Asp Val Leu Leu Ile Lys Lys Leu Gln Leu Leu Trp Leu Ser Val Pro
 20 25 30

Asp Arg Pro Phe Pro Ala Arg Thr Pro His Arg Arg Arg Lys Gly Arg
 35 40 45
 Ser Leu Gln Ile Ser Ser Val Ser Val Glu Leu Pro Ser Lys Glu Pro
 50 55 60
 Gln Leu Ala Lys Gln Glu Glu Arg Leu Asp Glu Glu Lys Pro Val Gln
 65 70 75 80
 Gln Thr Val Gln Glu Gln Ser Glu Pro Gln Thr Pro Ser Pro Ser Ala
 85 90 95
 Ala Pro Ser Val Ala Asp Ser Thr Thr Gln Pro Thr Thr Pro Ser Ser
 100 105 110
 Ala Val Ala Ser Thr Thr Ala Arg Pro Gln Ser His Ser Lys Gly Pro
 115 120 125
 Lys Pro Ala Val Pro Val Val Pro Val Leu Pro Val Ile Pro Ser Pro
 130 135 140
 Val Ala His Gln Arg Gln Pro Pro Lys Asp Asp Val Ser Arg Ala Pro
 145 150 155 160
 Glu Thr Pro Lys Ser Thr Thr Ala Ser Ala Thr Ser Val Asn Glu Thr
 165 170 175
 Pro Lys Glu Asp Ala Val Lys Glu Thr Ala Lys Ala Ala Ser Pro Pro
 180 185 190
 Arg Ala Ala Pro Lys Ser Trp Ala Asp Leu Val Arg Ala Lys Gly Ala
 195 200 205
 Ser Arg Val Ser Gly Pro Ala Gly Ala Leu Ser Ile Glu Ser Asn Gly
 210 215 220
 Leu Val Met Arg Lys Ser Glu Ser Leu Ala Asp Val Leu Thr Ser Leu
 225 230 235 240
 Gly Glu Asp Val Ser Gln Tyr Ser Asp Lys Ile Ala Phe Leu Glu Pro
 245 250 255
 Arg Gly Leu Ile Asn Thr Gly Asn Met Cys Tyr Met Asn Ser Val Ser
 260 265 270
 Trp His Ala Ile Arg Phe Ala Asp Leu His Leu Leu Asn Ala Arg Glu
 275 280 285
 Gln Val Leu Gln Ile Leu Val Ser Cys Ile Pro Phe Tyr Gln Phe Leu
 290 295 300
 Asp His Val Gly Arg Arg Ile Ser His Ser Val Gln Ser Ala Phe Pro
 305 310 315 320
 Met Val Asp Ala Met Ser Val Cys Pro Thr Leu Leu Pro Ala Thr His
 325 330 335
 Asp Asn Thr Asp Ile Ile Ser
 340

<210> 32730

<211> 363

<212> PRT

<213> A.fumigatus

<400> 32730

Arg Gly His Gln Gln Asp Ala Gln Glu Phe Leu Gly Phe Leu Leu Glu
 1 5 10 15
 Glu Met His Glu Glu Cys Val Arg Ala Ala Lys Asn Ala Ser Thr Thr
 20 25 30
 Lys Pro Ala Ala Ser Ile Thr Ala Glu Ser Ile Asp Lys Glu Glu Gln
 35 40 45
 Ser Gly Asp Gly Trp Leu Glu Val Gly His Lys Gln Lys Ala Ala Ile
 50 55 60
 Thr Arg Ser Ser Gly His Ile Thr Gln Glu Ser Pro Ile Thr Arg Ile

12915

65					70					75				80	
Phe	Gly	Gly	Lys	Ile	Arg	Ser	Glu	Phe	Lys	Val	Pro	Gly	Asn	Lys	Thr
				85					90					95	
Ser	Val	Thr	Leu	Glu	Pro	Tyr	Gln	Pro	Leu	Gln	Leu	Asp	Ile	Gly	Ser
			100					105					110		
Pro	Asp	Ile	His	Asn	Ile	Val	Asp	Ala	Leu	Lys	Gly	Leu	Thr	Lys	Pro
		115					120					125			
Glu	Ser	Ile	Gln	Gly	Asp	Phe	Asn	Ser	Ser	Arg	Gly	Pro	Asn	Val	Thr
	130					135					140				
Ala	Thr	Lys	Gln	Ile	Phe	Ile	Glu	Asn	Leu	Pro	Pro	Val	Leu	Ile	Leu
145					150					155					160
His	Leu	Lys	Arg	Phe	Gln	Tyr	Asp	Ser	Val	Thr	Arg	Gly	Thr	Gln	Lys
			165					170						175	
Ile	Trp	Lys	Lys	Ile	Gly	Tyr	Pro	Leu	Asp	Leu	Glu	Ile	Pro	Arg	Glu
		180						185					190		
Val	Phe	Ala	Pro	Asn	Lys	Arg	Asn	Val	Met	Met	Ala	His	Gly	Gly	Leu
	195						200					205			
Pro	Lys	Tyr	Arg	Leu	Ile	Gly	Val	Ile	Tyr	His	His	Gly	Arg	Asn	Ala
	210					215					220				
Ser	Gly	Gly	His	Tyr	Thr	Val	Asp	Val	Arg	Arg	Gln	Asp	Gly	Arg	Glu
225					230					235					240
Trp	Ile	Arg	Leu	Asp	Asp	Thr	Val	Ile	Arg	Arg	Ile	Lys	Ser	Glu	Asp
			245					250						255	
Val	Ala	Glu	Ala	Gly	Gly	Glu	Glu	Asp	Pro	Lys	Val	Leu	Ala	Ala	Ala
		260					265					270			
Leu	Glu	Gln	His	Lys	Arg	Asp	Asn	Thr	Ser	Asn	Ala	Asn	Ile	Phe	Gly
	275						280					285			
His	Ile	Asp	Gln	Asp	Asp	Gln	Asp	Gln	Ser	Asp	Asn	Glu	Arg	Gly	Trp
	290					295					300				
Ser	Gln	Val	Asn	Gly	Thr	Ser	Thr	Gly	Gly	His	Ser	Ser	Lys	Lys	Ser
305					310					315					320
Thr	Ser	Thr	Val	Leu	Asn	Gly	Ala	Ser	Ala	Thr	Ala	Ser	Gly	Ser	Ser
			325					330						335	
Ser	Gly	Val	Arg	Thr	Pro	Ile	Gly	Arg	Tyr	Gly	Ser	Arg	Asp	Asn	Lys
		340					345						350		
Val	Ala	Tyr	Leu	Leu	Phe	Tyr	Gln	Arg	Val	Ala					
		355					360								

<210> 32731

<211> 78

<212> PRT

<213> A.fumigatus

<400> 32731

Arg	Cys	Phe	Ala	Arg	His	Gly	Glu	Thr	Ser	Val	Ser	Arg	Ala	Glu	Ile
1			5						10					15	
Cys	Leu	Glu	Ala	Arg	Leu	Ser	Pro	Cys	Lys	Gly	Gln	Gln	Ser	Ala	Tyr
		20						25				30			
Ser	Ser	Leu	Arg	Val	Ser	Ser	Gly	Leu	Ala	Phe	Ser	Tyr	Ala	Ile	Ser
		35				40					45				
Asn	Ser	Ala	Ala	Ser	Ser	Gln	Arg	Ala	Thr	Leu	Gln	Ser	Leu	Leu	Ala
	50					55				60					
Met	Ala	Leu	Ala	Asn	His	Pro	Pro	Ala	Met	Asn	Ser	Ala	Gly		
65					70					75					

<210> 32732

<211> 445
 <212> PRT
 <213> A.fumigatus

<400> 32732

His	Ser	Tyr	Arg	Ser	Tyr	Ile	Arg	Asn	Gln	Pro	Thr	Gly	Asp	Thr	Ser
1				5					10					15	
Ser	Pro	Thr	Ile	Ser	Thr	Arg	Pro	Thr	Pro	His	Ser	Thr	Thr	Met	Ala
			20					25					30		
Gly	Ser	Gly	Lys	Lys	Ser	Lys	Gly	Lys	Pro	Gly	Ala	Lys	Gln	Lys	Asn
		35					40					45			
Lys	Lys	Gly	Lys	Asn	Gln	Glu	Thr	Ser	Glu	Asn	Pro	Ser	Glu	Thr	Pro
	50				55					60					
Phe	Ala	Glu	Lys	Gln	Asp	Gln	Gln	Thr	His	Pro	Glu	Ile	Asp	Ser	Glu
65				70					75						80
Thr	Pro	Leu	Asp	Gln	Glu	Gly	Gln	Pro	Leu	Gln	Ala	Glu	Val	Glu	Ala
			85					90					95		
Glu	Pro	Gln	Pro	Ala	Glu	Ser	Gln	Gly	Phe	Glu	Ser	Asn	Val	Pro	Leu
			100					105					110		
Gln	Ser	Leu	Pro	Glu	Pro	Gly	Pro	Asn	His	Gly	Gln	Ala	Pro	Glu	Gln
		115					120					125			
Val	Pro	Glu	Leu	Glu	His	Pro	Gln	Pro	Val	Ala	Ala	Thr	Ala	Ser	Ala
	130					135					140				
Val	Thr	Glu	Asn	Trp	Glu	Asp	Pro	Gln	Pro	Ser	Thr	Asn	Leu	Asp	Gln
145			150						155						160
Glu	Gly	Ile	Ser	Ser	Gln	Pro	Gln	Thr	Leu	Asn	Asp	Val	Gln	Asn	Ile
			165					170					175		
Leu	Glu	Ala	Thr	His	Glu	Ser	Ile	Leu	Glu	Glu	Leu	Ala	Ala	Ser	Asp
		180					185					190			
Pro	Pro	Thr	Glu	Thr	Ala	Ala	Val	Glu	Thr	Asn	Pro	Glu	Pro	Asn	His
	195						200					205			
Gly	Leu	Ser	Gly	Gln	Ser	Asp	Ala	Ala	Glu	Pro	Pro	Glu	Pro	Ile	Pro
	210				215					220					
Val	Thr	Ala	Pro	Gln	Thr	Pro	Met	Phe	Gln	Glu	Ala	Ala	Ala	Ala	Cys
225				230					235						240
Pro	Leu	Pro	Ser	Pro	Ser	Leu	Thr	Glu	Thr	Glu	Tyr	Ile	Ala	Ala	Ser
			245					250					255		
Ser	His	Ser	Asn	Ala	Ala	Ser	Pro	Ala	Pro	Asn	Pro	Ser	Pro	Glu	Ala
		260				265					270				
Glu	Ala	Glu	Val	Asn	Leu	Pro	Asn	Pro	Gln	Gln	Glu	Pro	Thr	Pro	Pro
	275					280					285				
Ala	Asp	Gln	Ala	Val	Ser	Pro	Ala	Pro	Asp	Pro	Ala	Ser	Ser	Ser	Arg
	290					295					300				
Pro	Leu	Ser	Pro	Ala	Pro	Val	Ala	Ala	Ser	Ser	Glu	Pro	Pro	Ala	Ser
305				310					315						320
Ser	Ser	Val	Leu	Gln	Thr	Ala	Ser	Pro	Ala	Leu	Glu	Ala	Asp	Ala	Phe
			325					330					335		
His	Ser	Ala	Ser	Pro	Val	Asn	His	Pro	Ala	Ser	Pro	Ala	Phe	His	Thr
		340					345					350			
Ala	Ser	Pro	Ala	Ser	Lys	Pro	Ser	Ser	Pro	Ile	Pro	Gln	Ser	Ala	Ser
	355					360					365				
Ser	His	Tyr	Lys	Gly	Ala	Ser	Pro	Ala	Met	Ala	Lys	Pro	Ala	Ser	Pro
	370				375				380						
Val	Gln	Arg	Tyr	Ala	Ser	Lys	Pro	Ala	Ser	Pro	Leu	Ala	Lys	Ala	Asn
385				390					395						400
Asn	Pro	Leu	Thr	Arg	Pro	Tyr	Val	Ser	Pro	Ala	Val	Ser	Pro	Ser	Ala

12917

405 410 415
 Thr Pro Phe Arg Thr Pro Pro Pro Ala Pro Ser Val Pro Pro Phe Asn
 420 425 430
 Arg Ser Trp Leu Trp His Trp Leu Ile Ile Pro Leu Arg
 435 440 445

<210> 32733
 <211> 65
 <212> PRT
 <213> A.fumigatus

<400> 32733
 Ser Tyr His Pro Gly Arg Cys Ser Leu Ile Leu Met Pro Asn Pro Leu
 1 5 10 15
 His Phe Thr Lys Ile Val Gln Pro Cys Arg Ser Gly Thr Asp Gly Phe
 20 25 30
 Gly Pro Ile Leu Thr Ile Thr Ala Leu Ala Pro Lys Thr Gly Ala Leu
 35 40 45
 Arg Ser Pro Asn Tyr Gln Tyr Ser Gly Val Thr Arg Thr Thr His Gly
 50 55 60
 Tyr
 65

<210> 32734
 <211> 74
 <212> PRT
 <213> A.fumigatus

<400> 32734
 Thr Asp Thr Ile Ala Ala Thr Val Gly Val Gly Pro Ala Val Asp Val
 1 5 10 15
 Thr Tyr Asn Ser Ile Glu Leu Gln Pro Cys Phe Asp Thr Ala Gln Ser
 20 25 30
 Thr Trp Thr Met Thr Thr Leu Met Pro Leu Thr Gln Ala Arg Lys Glu
 35 40 45
 Tyr Asn Leu Ile Lys Lys Gln Gln Ser Cys Thr Thr Leu Lys Met Cys
 50 55 60
 Leu Ser Gln Ser Ser Asp Trp Asp Leu Asp
 65 70

<210> 32735
 <211> 113
 <212> PRT
 <213> A.fumigatus

<400> 32735
 Leu Thr Leu Pro Gln Ala Ile Asn Glu Leu Asn Ile Leu Pro Leu Arg
 1 5 10 15
 Ala Arg Gly Ser Val Ser Phe Ile Arg Ser Ala Ala Gln Ala Phe Ser
 20 25 30
 Ser Phe Pro Pro Ile Ile Ala Arg Asn Val Gly His Val Ile Met Trp
 35 40 45
 Ser Ile Thr Cys Ile Gly His Glu Arg Ala Arg Leu Ser Ser Gly Val
 50 55 60
 Tyr Glu Asn Glu Thr Arg Gln Gly Leu Ala Asp Glu Leu Leu Val Met
 65 70 75 80

12918

Ala Lys Asp Leu Met Ile Phe Ser Gly Met Val Lys Tyr Lys Leu Pro
 85 90 95
 Pro Arg Val Tyr Glu Thr Leu Ala Arg Ala Gly Ala Asp Ile Gly Ala
 100 105 110
 Tyr

<210> 32736
 <211> 226
 <212> PRT
 <213> A.fumigatus

<400> 32736
 Arg Pro Leu Val Asp Pro Gly Thr Thr Asn Thr Pro Lys Gln Leu Ala
 1 5 10 15
 Leu Asp Gln Ser Ala Arg Lys Val Tyr Phe Ser Asp Arg Glu Gly Leu
 20 25 30
 Arg Val Phe Arg Cys Asn Tyr Asp Gly Ser Asp Leu Glu Ile Ile Val
 35 40 45
 Gln Thr Gly Asp Tyr His Arg Pro Gly Asp Met Gln Asp Ala Thr Lys
 50 55 60
 Trp Cys Val Gly Ile Ala Val Ser Pro Arg Phe Gly Lys Phe Tyr Trp
 65 70 75 80
 Thr Gln Lys Gly Phe Ser Lys Ser Ser Thr Gly Arg Ile Phe Cys Ala
 85 90 95
 Asp Ile Asp Met Pro Pro Gly Gln Thr Ala Ala Lys Arg Asn Asp Ile
 100 105 110
 Arg Cys Leu Leu Glu Gly Leu Pro Glu Pro Ile Asp Leu Glu Val Asp
 115 120 125
 Glu Glu Ser Gly Arg Leu Tyr Trp Thr Asp Arg Gly Glu Leu Pro Phe
 130 135 140
 Gly Asn Ser Leu Asn Arg Val Ser Leu Lys Glu Thr Gly Ser Glu Val
 145 150 155 160
 Glu Arg Thr Gly His Leu Gly Tyr Glu Val Leu Thr Arg Asn Leu Asn
 165 170 175
 Glu Ala Ile Gly Leu Lys Leu Asp Leu Gly Arg Gly His Ile Tyr Leu
 180 185 190
 Thr Asp Leu Gly Gly Ser Val Tyr Arg Thr Asp Gly Asp Gly Lys Gln
 195 200 205
 Lys Val Lys Leu Tyr Ser Asp Glu Ser Arg Ala Phe Thr Gly Ile Ala
 210 215 220
 Leu Leu
 225

<210> 32737
 <211> 349
 <212> PRT
 <213> A.fumigatus

<400> 32737
 Ala Pro Glu Pro Asp Gln Gln Leu Phe Ile Pro Pro Ala Leu Arg Thr
 1 5 10 15
 Ile Ser Pro Gln Arg Lys Pro Glu Ala Pro Leu Gln Leu Ser Arg Thr
 20 25 30
 Cys Arg Arg Leu Arg Asp Val Cys Gln Pro Leu Leu Phe Gln Cys Tyr
 35 40 45

12919

Tyr His Ser Ser Lys Ser Leu Thr Ser Leu Leu Ser Phe Leu Arg Thr
 50 55 60
 Leu Glu Ala Arg Pro Asp Leu Ala Lys Cys Val Thr Ser Leu Asp Phe
 65 70 75 80
 Asn Gly Gln Gly Gln Ala Asp Ala Leu Ser Asp Gly Asp Gln Gln Leu
 85 90 95
 Leu Glu Ser Cys Ile Ala Lys Phe Gly Leu Pro Leu Leu Leu Asp Asp
 100 105 110
 Trp Gln Asp Cys Leu Gly Val Glu Arg Arg Leu Leu Ala Ala Glu Leu
 115 120 125
 Val Val Ala Ser Cys Pro Asn Ile Glu Ala Leu Arg Leu Pro Met Asn
 130 135 140
 Pro Glu Trp Leu Val Ser Val Leu Asp Ser Leu Pro Lys Asp Phe Val
 145 150 155 160
 Phe Ala Lys Leu Arg Lys Leu Asp Val Trp Leu Tyr Tyr Ile Ser Gly
 165 170 175
 Asp His Tyr Gly Ile Gly Tyr Arg Lys Ile Ser Gly Leu Leu His Ala
 180 185 190
 Ser Pro Asn Leu Glu His Leu Ser Leu Pro Ser Ile Glu Ala Phe Tyr
 195 200 205
 Pro Gly Glu Ala Gly Val Pro Ile Leu Glu Lys Val Arg His Leu Asp
 210 215 220
 Leu Gly Asp Ser Ala Pro Ser Pro Tyr Phe Leu Lys Arg Val Leu Glu
 225 230 235 240
 Ala Cys Pro Asn Leu Glu Arg Phe Glu Leu His Trp Ile Val Ser Asp
 245 250 255
 Gly Tyr Asp Glu Asp Ser Glu Glu Trp Ser Pro Leu Asp Arg Arg Arg
 260 265 270
 Ala Leu Gln Arg Val Gln Ser Ser Val Arg Glu Ile Ile Phe Glu Ala
 275 280 285
 Thr Ile Glu Phe Arg Asp Asp Asn Leu Glu Asp Ser Val Pro Thr
 290 295 300
 Leu Arg Asp Phe Ser Arg Leu Glu Ile Leu Lys Val Asn Asp Ile Ala
 305 310 315 320
 Leu Gln Ala Leu Tyr Lys Val Trp Thr His Pro Asn Arg His Gly Thr
 325 330 335
 Val Glu Gln Phe Val Tyr Gln Gly Val Ser Val Tyr Asp
 340 345

<210> 32738

<211> 106

<212> PRT

<213> A.fumigatus

<400> 32738

Gln Ile Ser Val Phe Ser His Gln Leu Gln Pro Thr Ser Ile Ala Ile
 1 5 10 15
 Arg Gln Gln Gln Glu Tyr Ile Ser Leu Val Arg Pro Asp Ser Asn Pro
 20 25 30
 Gly Lys Arg Asn Thr Leu Ile Thr Met Val Val Thr Ser Leu Glu Thr
 35 40 45
 Leu Pro Val Glu Leu Leu Ser Gln Ile Ser Ser Tyr Leu Ser Pro Leu
 50 55 60
 Arg Cys Gly Gln Tyr Pro His Ser Val Ser Gln Lys His Leu Ser Ser
 65 70 75 80
 Ser Val Ala His Val Gly Gly Ser Val Met Ser Ala Asn Arg Phe Tyr

12920

			85					90			95
Ser	Ser	Ala	Ile	Thr	Ile	Leu	Pro	Ser	Pro		
			100					105			

<210> 32739
 <211> 227
 <212> PRT
 <213> A.fumigatus

<400> 32739
 Tyr Ala Gly Cys Tyr Gly Cys Gln Tyr Arg Cys Cys Arg Gln Glu Glu
 1 5 10 15
 Gly Ala Asp Lys Cys Arg Arg Thr Glu Ile Leu Cys Gly Ala Arg Glu
 20 25 30
 Gln Arg Gly Arg Arg Ser Ala Leu Gly Thr Pro Asn Leu Phe Thr Pro
 35 40 45
 Ser Pro Ser Phe Pro Leu Gly Cys Asp Ala Phe Val Ala Phe Trp Phe
 50 55 60
 Gln Arg Leu Thr Val Arg Gln Ser Lys Arg Arg Arg Thr Ser Val Lys
 65 70 75 80
 His Glu Asp Pro Glu Thr Asp Glu Asp Val Pro Leu Ala Leu Asn Gly
 85 90 95
 Arg Lys Leu Pro Lys Ala Ser Glu Thr Ala Leu Gly Ala Glu Glu Ser
 100 105 110
 Asp Ser Asp Val Pro Ile Glu Arg Lys Leu Val Ala Gln Lys Lys Lys
 115 120 125
 Ile Gln Gln Lys Ala Glu Lys Asp Ala Lys Ala Ser Arg Lys Ser Asp
 130 135 140
 Ala Ser Gln Ala Ala Lys Ala Thr Ala Ala Ser Lys Lys Lys Gln Val
 145 150 155 160
 Asn Gly Val Lys Ser Glu Pro Val Asp Glu Lys Lys Pro Ala Val Lys
 165 170 175
 Lys Thr Thr Lys Gln Ala Asn Ala Glu Pro Ala Ala Ser Ala Arg Asn
 180 185 190
 Gly Lys Thr Lys Ala Thr Pro Val Lys Lys Glu Glu Ser Thr Glu Ala
 195 200 205
 Glu Glu Gly Glu Glu Glu Glu Glu Tyr Arg Trp Trp Glu Asp Pro
 210 215 220
 Thr Lys Gly
 225

<210> 32740
 <211> 69
 <212> PRT
 <213> A.fumigatus

<400> 32740
 Asp Glu Val Arg Arg Cys Ser Arg Ala Phe Phe Thr Arg Lys Pro Lys
 1 5 10 15
 Lys Trp Arg Ala Leu Phe Gly Ser Met Leu Asn Ala Thr Gln His Val
 20 25 30
 Glu Asn Pro Thr Phe Gln Lys Asn Phe Phe Met Asp Phe Lys Glu Val
 35 40 45
 Leu Glu Lys Thr Gly Gly Ala Lys Asp Pro Lys Gly His Pro Asn Arg
 50 55 60
 Asp Gln Gly Val Leu

65

<210> 32741
 <211> 139
 <212> PRT
 <213> A.fumigatus

<400> 32741
 Val Val Phe Thr Val Ala Ser His Gly Val Glu Ser Ser Gln Pro Phe
 1 5 10 15
 Ala Pro Pro Tyr Leu Leu Ser Phe Leu Thr Phe Val Leu Ile Pro Gln
 20 25 30
 Ile Ser His Ser Tyr Ala Tyr Ile Gln Leu Asn Leu Thr Phe His Gly
 35 40 45
 Met Ser Ala Thr Ser Thr Asp Val Lys Met Glu Asp Thr Pro Glu Thr
 50 55 60
 Asn Gly His Val Glu Pro Gly Val Ser Leu Arg Phe Gly Pro Val Lys
 65 70 75 80
 Ser Ala Gly Asp Ile Asp Met Gln Asp Ala Thr Asp Ala Asn Thr Gly
 85 90 95
 Val Ala Gly Lys Arg Lys Ala Arg Thr Ser Val Gly Glu Arg Lys Ser
 100 105 110
 Tyr Ala Glu Pro Glu Ser Ser Glu Asp Glu Asp Gln Pro Leu Val Arg
 115 120 125
 Arg Thr Ser Leu Arg Arg Leu Pro Arg Phe Pro
 130 135

<210> 32742
 <211> 117
 <212> PRT
 <213> A.fumigatus

<400> 32742
 Arg Val Asn Leu Ser Met Arg Arg Asn Arg Gln Ser Arg Arg Gln Pro
 1 5 10 15
 Asn Lys Pro Met Gln Ser Arg Gln Leu Leu Leu Gly Thr Gly Lys Arg
 20 25 30
 Arg Arg His Leu Ser Arg Arg Lys Lys Ala Leu Lys Leu Arg Lys Val
 35 40 45
 Lys Lys Lys Arg Lys Ser Thr Asp Gly Gly Arg Ile Arg Pro Lys Gly
 50 55 60
 Asp Gly Thr Ile Lys Trp Thr Thr Leu Glu His Asn Gly Val Val Phe
 65 70 75 80
 Leu Leu Pro Tyr Glu Leu Leu Pro Ser Asp Val Lys Met Lys Tyr Asp
 85 90 95
 Gly Val Pro Gly His Ser Ser Pro Glu Ser Arg Lys Ser Gly Gly Leu
 100 105 110
 Phe Ser Val Ala Cys
 115

<210> 32743
 <211> 338
 <212> PRT
 <213> A.fumigatus

<220>

<221> UNSURE

<222> (338)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32743

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Met Arg Leu Asn Met Trp Lys Thr Gln Pro Ser Arg Arg Thr Ser Leu
1           5           10           15
Trp Ile Ser Lys Arg Ser Trp Lys Arg Gln Val Glu Arg Arg Ile Gln
          20          25          30
Arg Gly Thr Gln Ile Glu Ile Lys Glu Phe Ser Lys Cys Asp Phe Arg
          35          40          45
Pro Ile Phe Asp Tyr Tyr Asp Ala Lys Arg Ile Glu Lys Lys Asn Leu
          50          55          60
Pro Pro Ala Glu Lys Lys Arg Leu Lys Ala Glu Lys Asp Ala Ala Glu
65          70          75          80
Ala Pro Tyr Met Tyr Cys Leu Trp Asp Gly Arg Lys Gln Lys Val Gly
          85          90          95
Asn Phe Arg Val Glu Pro Pro Ala Leu Phe Arg Gly Arg Gly Glu His
          100         105         110
Pro Lys Thr Gly Arg Val Lys Ala Arg Val Gln Pro Glu Gln Ile Thr
          115         120         125
Ile Asn Ile Gly Lys Asp Ala Pro Val Pro Pro Pro Glu Gly His
          130         135         140
Arg Trp Lys Glu Val Lys His Asp Gln Glu Gly Thr Trp Leu Ala Met
145         150         155         160
Trp Gln Glu Asn Ile Asn Gly Asn Tyr Lys Tyr Val Met Leu Ala Ala
          165         170         175
Asn Ser Asp Val Lys Gly Leu Ser Asp Tyr Lys Lys Phe Glu Lys Ala
          180         185         190
Arg Glu Leu Lys Lys His Ile Asp Arg Ile Arg Lys Asp Tyr Gln Lys
          195         200         205
Ala Leu Lys His Glu Leu Met Val Glu Arg Gln Lys Ala Thr Ala Val
210         215         220
Tyr Leu Ile Asp Gln Phe Ala Leu Arg Ala Gly Asn Glu Lys Gly Glu
225         230         235         240
Asp Glu Ala Glu Thr Val Gly Cys Cys Ser Leu Lys Tyr Glu Asn Val
          245         250         255
Thr Leu Lys Pro Pro Asn Lys Val Ile Phe Asp Phe Leu Gly Lys Asp
          260         265         270
Ser Ile Arg Phe Tyr Asp Glu Val Glu Val Asp Pro Gln Val Phe Lys
          275         280         285
Asn Leu Lys Ile Phe Lys Lys Pro Pro Lys Lys Glu Gly Asp Glu Ile
          290         295         300
Phe Asp Arg Leu Thr Val Cys Ala Gln Leu Gly Leu Phe Val Ile Asp
305         310         315         320
Asp Asp Asn Phe Cys Leu Thr Arg Pro Gly Met Glu Gly Val Ala Ser
          325         330         335
Pro Xaa

```

<210> 32744

<211> 110

<212> PRT

<213> A.fumigatus

<400> 32744

12923

Glu	Asp	Thr	Ile	Glu	Lys	Phe	Leu	Gln	Val	Gly	Val	Ser	Thr	Asn	Tyr
1				5					10					15	
Gln	Tyr	Thr	Lys	Thr	Ser	Thr	Leu	Thr	Gly	Thr	Val	Thr	Met	Thr	Ile
			20					25					30		
Pro	Lys	Asn	Lys	Trp	Gly	Ala	Ile	Val	Ser	Asn	Pro	Leu	Thr	His	Arg
		35					40					45			
Lys	Arg	Gly	Tyr	Ile	Phe	Thr	Gly	Ser	Pro	Gly	Arg	Gly	Gln	Phe	Glu
	50					55				60					
Tyr	Tyr	Gln	Ala	Asp	Ser	Phe	Thr	Asp	Glu	Thr	Tyr	Arg	Tyr	Lys	Asp
65					70				75					80	
Gly	Ser	Leu	Asn	Trp	Val	Lys	Gly	Val	Val	Thr	Thr	Cys	Leu	Arg	Asp
			85					90						95	
Thr	Tyr	Pro	Val	Lys	Arg	Cys	Val	Gly	Gln	Gly	Glu	Leu	Lys		
			100					105					110		

<210> 32745

<211> 252

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (52), (57), (81)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32745

Glu	Ser	Gly	Val	Pro	Thr	Ser	Cys	Gln	Ile	Ser	Ile	Gln	Asp	His	Lys
1			5					10					15		
Gly	Arg	Thr	Arg	His	Phe	Leu	Ile	Ala	Trp	Thr	Gly	Glu	Lys	Glu	Met
			20					25					30		
Ile	Asp	Ser	Phe	Glu	Arg	Ser	Ser	Ala	Met	Val	Thr	Val	Ser	Leu	Gln
		35				40						45			
Leu	Ala	Pro	Xaa	Glu	Thr	Ser	Ile	Xaa	Ser	Leu	Glu	Lys	Ser	Gly	Ser
	50				55					60					
Cys	Asp	Leu	Thr	Lys	Leu	Thr	Lys	Thr	Ala	Ser	Ser	Ser	Thr	Ile	Arg
65				70				75						80	
Xaa	Tyr	Gly	Ile	Ala	Asn	Leu	Thr	Arg	Trp	Asp	Leu	Ser	Ile	Glu	Asp
			85					90						95	
Phe	His	Ala	Pro	His	Ser	Arg	Phe	Gln	Val	Gln	Thr	Ala	Ile	Thr	Ser
			100					105					110		
His	Asn	Phe	Ser	Asn	Ile	Ala	Ile	Arg	Pro	Trp	Ser	Ala	Ile	Ser	Pro
		115				120						125			
Glu	Leu	Ala	Lys	Val	Gly	Gly	Ile	Gly	Arg	Tyr	Ser	Thr	Ser	Phe	Thr
	130					135					140				
Val	Pro	Ser	Val	Ser	Arg	Ile	Arg	Gly	Lys	Leu	Ser	Leu	Gly	Pro	Ile
145					150				155					160	
Ile	His	Thr	Ala	Arg	Val	Tyr	Ile	Gly	Gly	Gln	Arg	Leu	Pro	Pro	Ile
			165					170						175	
Asp	Pro	Val	Asn	Pro	Val	Ile	Asp	Ile	Ser	Ser	Tyr	Ile	Arg	Pro	Gly
		180					185						190		
Gln	Thr	Tyr	Lys	Leu	Ile	Val	Glu	Val	Thr	Thr	Pro	Leu	Phe	Asn	Arg
		195					200					205			
Ile	Lys	Thr	Asp	Ala	Asn	His	Thr	Lys	Ile	Ala	Gly	Ser	Thr	Ala	Val
	210					215					220				
Glu	Leu	Gln	Pro	Leu	Tyr	Ala	Ser	Thr	Pro	Tyr	Gln	Glu	Tyr	Gly	Leu
225					230					235					240

12924

Met Gly Pro Val Val Val Thr Trp Ser Ile Ser Thr
245 250

<210> 32746
<211> 67
<212> PRT
<213> A.fumigatus

<400> 32746
Asn Arg Pro Cys Val Gln Ala Glu Thr Gln Ala Tyr Pro Gln Ala Val
1 5 10 15
Ser Thr Pro Ser Leu Ala Phe Ile Ser Thr Leu Leu Ile Cys Lys Leu
20 25 30
Thr Thr Glu Ile Asn Phe Gln Ile Ser Arg Gln Leu Gly Pro Gln Gln
35 40 45
Gln Thr Leu Arg Pro Val Gly Asn Ser Arg Asp Ser Ile Phe Tyr Leu
50 55 60
Thr Leu Pro
65

<210> 32747
<211> 232
<212> PRT
<213> A.fumigatus

<400> 32747
Phe Pro Gln Arg Val Gly His Glu Leu Thr Ser Val Ser Ser Ala Ala
1 5 10 15
Leu Leu Thr Arg Pro Thr Cys Ser Gln Phe Asn Thr Leu Ile Asp Gln
20 25 30
Lys Val Arg Leu His Phe Ala Ser Ala Ser Leu Asp Arg Thr Ala Ile
35 40 45
Asn Ile Val Tyr Ser His Val Leu Asn Pro Met Val Val Thr Arg Ser
50 55 60
Tyr Met Cys Ile Glu Pro Ile Glu Leu Trp Leu Asp Leu Arg Ser Leu
65 70 75 80
Arg Gln Gly Leu Val Cys Pro Val Asp Ala Asp Thr Asp Pro Thr Ala
85 90 95
Leu Leu Val Gln Asp Ser Gly Met Val Pro Val Asn Thr Gln Val Ala
100 105 110
Ile Val Asn Pro Glu Thr Cys Thr Leu Ser His Val Gly Glu Tyr Gly
115 120 125
Glu Ile Trp Ile Gln Ser Asp Ala Cys Ala Lys Ala Phe Tyr Gly Ser
130 135 140
Arg Asn Asp Phe Asp Ala Glu Arg Phe Asn Gly Arg Ile Val Asp Gly
145 150 155 160
Asp Pro Asn Val Ala Tyr Val Arg Thr Gly Asp Leu Gly Phe Leu His
165 170 175
Thr Val Thr Arg Pro Ile Gly Pro Ser Gly Gln Pro Val Glu Met Gln
180 185 190
Val Leu Phe Val Leu Gly Gly Ile Gly Glu Thr Phe Glu Val Asn Gly
195 200 205
Leu Asn His Phe Pro Met Asp Ile Glu Asn Ser Val Glu Lys Cys His
210 215 220
Arg Asn Val Val Pro Gly Gly Trp
225 230

<210> 32748
 <211> 313
 <212> PRT
 <213> A.fumigatus

<400> 32748
 Pro Leu Gln Phe Ser Cys Val Phe Gln Ala Gly Gly Leu Ile Val Val
 1 5 10 15
 Val Val Glu Val Thr Arg Lys Ala Tyr Leu Ala Ser Leu Val Pro Val
 20 25 30
 Ile Val Asp Ala Ile Leu Gly Glu His Gln Val Ile Ala Asp Ile Val
 35 40 45
 Ala Phe Val Ser His Gly Asp Phe Pro Arg Ser Arg Leu Gly Glu Lys
 50 55 60
 Gln Arg Gly Lys Val Leu Ala Ser Trp Val Thr Arg Arg Leu Arg Thr
 65 70 75 80
 Ile Ala Gln Phe Ser Ile Arg Asp Met Glu Gly Ser Met Asn Leu Phe
 85 90 95
 Ala Glu Ala Pro His His Arg Ser Ser Lys Gly Ser Lys Pro Gly Ser
 100 105 110
 Val Met Gly Asn Ser Leu Arg Arg Ser Thr Leu Val Pro Glu Ala Asp
 115 120 125
 Ser Ala Thr Val Pro Arg Ser Pro Ala Pro Val Leu Val Glu Gln Pro
 130 135 140
 Gln Glu Ser Met Val Pro Gln Tyr His Asp Val His Glu Arg Ala Gly
 145 150 155 160
 Gly Glu Met Leu Ala Pro Pro Leu Pro Asp Val Gln Leu Ser Leu Pro
 165 170 175
 Gln Ile Glu Asp Pro Val Pro Pro Met Arg Ser Ser Asn Asn Glu Ser
 180 185 190
 His Ser Ala Gly Ile Ala Gln Pro Asp Leu Gly Phe Asn Phe Gly Asp
 195 200 205
 Phe Ala Asn Ala Thr Gly Ser Thr Pro Met Asp Glu His Thr Gly Ala
 210 215 220
 Gly Ala Val Gly Glu Thr Leu Pro Tyr Arg Asp Val Arg Gly Gln Gly
 225 230 235 240
 Ser Ile Pro Thr His Gln Pro Pro Arg Thr Ser Ser Leu Pro Ile Gly
 245 250 255
 Thr Ala Pro Ala Ser Gly Arg Pro Asp Ser Ser Asp Arg Leu Ser Glu
 260 265 270
 Asp Lys Met Gly Asp Trp Pro Gln Glu Ala Leu Met Tyr Gln Ser Ala
 275 280 285
 Leu Gly Gly Asp Asp Pro Tyr Gly His Asn Ala Val Asp Trp Thr Pro
 290 295 300
 Gly Asp Ala Thr Arg Asn Tyr Arg Asp
 305 310

<210> 32749
 <211> 86
 <212> PRT
 <213> A.fumigatus

<400> 32749
 Leu Gly Ala Pro Thr Tyr Leu Val Ser Pro Val Asp Phe Ala Gln Asn
 1 5 10 15

12926

Pro Met Thr Leu Phe Val Ala Leu Ser Arg Tyr Lys Ile Lys Asp Thr
 20 25 30
 Tyr Ala Thr Ser Gln Met Leu Asp Tyr Ala Met Ser Val Met Pro Ala
 35 40 45
 Lys Gly Phe Gln Leu Gln Glu Met Lys Asn Leu Met Ile Ser Ala Glu
 50 55 60
 Gly Arg Pro Arg Thr Asp Ile Cys Lys Phe Arg Gly Ser Ser His Pro
 65 70 75 80
 Ser Asn Leu Phe Ser Ile
 85

<210> 32750

<211> 240

<212> PRT

<213> A.fumigatus

<400> 32750

Leu Pro Pro Trp Cys Val Gln Pro Asn Gln Ile Leu His Met Leu Val
 1 5 10 15
 Leu Pro Gln Leu Arg Ser Thr Leu Ile Asn Asn Ile Asn Asn His Arg
 20 25 30
 Asn Tyr Ser His Gly Pro Cys Arg Arg Trp Arg His His Arg His His
 35 40 45
 Arg His His Arg His His Arg His His Arg Gln Ser Leu Ser Arg Asp
 50 55 60
 Pro His Leu Asn Pro Ile Leu Arg Asn Lys Tyr Asn Leu Pro Leu Ile
 65 70 75 80
 Pro Ser Leu Gly Arg Thr Leu Arg Pro Lys Tyr Asn Cys Lys His Ser
 85 90 95
 Pro Arg Arg Ser Arg Asn Gln Ser Pro Asp Pro Arg Phe Lys Phe Val
 100 105 110
 Gln Arg His Ser Arg Leu Leu Lys Gln Ser Arg His Arg Ala His Gln
 115 120 125
 Pro Ile Trp Ser Gly Glu Asp Leu Gly Asp Arg Gln Arg Ala Leu Arg
 130 135 140
 Leu Arg Leu Gln Tyr Gln Ser Leu Pro Arg Phe Arg Ile Arg Ser Thr
 145 150 155 160
 Arg Val Ala Gly Arg Ser Ala Lys Arg Ser Cys Thr Ile Leu Lys Cys
 165 170 175
 Ser Arg Ser Thr Phe Leu Lys Phe Thr Cys Leu Thr Arg Ser Arg Val
 180 185 190
 Asn Gly Lys Thr Ala His Phe Ala Arg Thr Tyr Arg Arg Cys Asn Cys
 195 200 205
 Thr Ser Met Ser Phe Gln Asn Met Trp Cys Leu Ser His Gly Arg Trp
 210 215 220
 Ala Met Asp His Gln Cys Leu Gln Leu Val Arg Glu Tyr Arg Asp Asp
 225 230 235 240

<210> 32751

<211> 545

<212> PRT

<213> A.fumigatus

<400> 32751

Thr Val Pro Ser Ile Ala Pro Gln Arg His Cys Leu Pro Asn Met Ala
 1 5 10 15

Asn	Asp	Tyr	Phe	Glu	Arg	Leu	Gln	Asn	His	Arg	Glu	Thr	Gly	Pro	Ser
			20					25					30		
Gln	Phe	Pro	Gln	Gln	Asn	Gln	Tyr	Ala	Ser	Phe	Arg	Ser	Pro	Phe	Gln
		35					40					45			
Arg	Tyr	Pro	Asp	Ala	Val	Leu	Asp	Leu	Pro	Pro	Thr	Tyr	Gln	Thr	Pro
	50					55					60				
Leu	Ser	Asp	Ile	His	Gln	Pro	Tyr	His	Tyr	Gln	Thr	His	Tyr	Ala	Pro
65					70					75					80
Leu	Glu	Gln	Tyr	Val	Arg	Pro	Gln	Asp	Thr	Thr	Tyr	Ser	Ser	Leu	Thr
				85					90					95	
Thr	Tyr	Pro	Leu	Ile	Pro	Tyr	Gln	Gly	Gly	Gln	Gln	Tyr	Arg	Ala	Asn
		100						105					110		
Pro	Pro	Ala	Thr	Thr	His	Gln	Pro	Pro	Pro	Ala	Pro	Pro	Leu	Ser	Thr
		115					120					125			
Leu	Ser	Gln	Pro	Leu	Pro	Trp	Asn	His	Ala	Gln	Thr	Gln	Pro	Gln	Asn
	130					135					140				
Thr	Leu	Ser	Tyr	Leu	Asn	Tyr	Pro	Pro	Ser	Thr	Arg	Ala	Ala	Glu	Val
145					150					155					160
Val	Asp	Val	Asp	Val	Ser	Gly	His	Asp	Gly	Lys	Arg	Arg	Arg	Leu	Glu
				165					170					175	
Ser	Ser	Ala	Thr	Val	Thr	Leu	Ser	Lys	Pro	Thr	Met	Pro	Pro	Gln	Gly
			180					185					190		
Arg	Leu	Ser	Lys	Tyr	Ser	Phe	Thr	Pro	Gln	Asp	Thr	Thr	Asp	Arg	Ser
	195						200					205			
Tyr	Leu	Lys	Thr	Arg	Ala	Asp	Ile	Ala	Lys	Pro	Leu	Asp	Val	Thr	Asp
	210					215					220				
Ala	Ala	Glu	Lys	Leu	Gln	Tyr	Asp	Pro	Lys	Thr	Ile	Ala	Arg	Asp	Val
225					230					235					240
Leu	Ile	Ala	Ser	Gly	Arg	His	Pro	Thr	Glu	Ala	Pro	Leu	Asn	His	His
				245					250					255	
Leu	Phe	Arg	Leu	Arg	Asp	Val	Phe	Thr	Gly	Leu	Asp	Thr	Ala	Ser	Asp
			260					265					270		
Leu	Glu	Thr	Phe	Arg	Trp	Asp	Leu	Val	Asp	Pro	Asp	Asp	Lys	Gln	Ala
	275						280					285			
Asn	Asn	Thr	Thr	Thr	Ala	Arg	Asp	Val	Gln	Leu	Leu	Ser	Ala	Pro	Ala
	290					295					300				
His	Val	Thr	Ser	Ala	Met	Val	Arg	Pro	Ala	Gln	Pro	Asn	Pro	Pro	Tyr
305					310					315					320
Ala	Gly	Val	Thr	Ala	Thr	Pro	Gln	His	Pro	His	Gln	Gln	Tyr	Gln	Gln
				325					330					335	
Pro	Ser	Gln	Leu	Gln	Pro	Arg	Pro	Leu	Gln	Thr	Leu	Glu	Thr	Ser	Gln
			340					345					350		
Thr	Ser	Gln	Thr	Ser	Gln	Thr	Ser	Gln	Thr	Ser	Gln	Thr	Val	Pro	Glu
		355				360						365			
Gln	Arg	Ser	Ser	Ser	Gln	Pro	Asn	Ser	Gln	Lys	Gln	Val	Gln	Pro	Pro
	370					375					380				
Ser	Asp	Pro	Gln	Pro	Arg	Ser	His	Pro	Ser	Pro	Gln	Val	Gln	Leu	Gln
385					390					395					400
Ala	Gln	Pro	Pro	Ser	Gln	Pro	Gln	Pro	Lys	Pro	Gly	Pro	Ser	Ile	Gln
				405					410					415	
Ile	Arg	Thr	Lys	Thr	Gln	Pro	Pro	Pro	Lys	Ala	Lys	Ser	Ser	Pro	Arg
			420					425					430		
Ser	Ser	Thr	Asn	Met	Val	Gly	Arg	Arg	Pro	Gly	Arg	Pro	Pro	Ala	Ser
		435					440					445			
Ser	Lys	Ile	Glu	Val	Thr	Ile	Pro	Ile	Thr	Ser	Gln	Ile	Pro	Tyr	Lys
	450					455					460				

12928

Val Tyr Thr Cys Gly Trp Glu Lys Cys Gln Ala Glu Leu His Asn Leu
 465 470 475 480
 Glu Met Leu Lys Lys His Ile Phe Lys Ile His Val Pro Tyr Thr Leu
 485 490 495
 Thr Cys Gln Trp Lys Asp Cys Thr Phe Arg Glu Asn Leu Pro Ala Val
 500 505 510
 Gln Leu Tyr Lys His Val Leu Ser Glu His Val Val Ser Ile Ala Trp
 515 520 525
 Thr Leu Gly Asp Gly Pro Ser Val Pro Ala Thr Gly Glu Arg Ile Ser
 530 535 540
 Arg
 545

<210> 32752

<211> 129

<212> PRT

<213> A.fumigatus

<400> 32752

Leu Asn Leu Cys Phe Phe Phe Ser Phe Leu Phe Phe Cys Phe Val Ala
 1 5 10 15
 Gln Trp Val Arg Trp Leu Thr Thr Phe Ile Phe Thr Cys His Leu Glu
 20 25 30
 Asp Arg Val Ala Gly Glu Ser Pro Leu Pro Lys Thr Ile Pro Glu Ser
 35 40 45
 Thr Gln Pro Gly Gly Glu Asp Ser Leu Val Phe Pro Ala Ser Tyr Ser
 50 55 60
 Ser Ile Arg Ala Phe Asn Arg Val His Gly Asn His Thr Gln Ile Glu
 65 70 75 80
 Lys Ala Arg Glu Ile Phe Lys Ala Val Gln Arg Leu Lys Glu His Ile
 85 90 95
 Gly Tyr Gly Leu Asp Pro Gly Gly Cys Gln Leu Ala Thr Pro Thr Arg
 100 105 110
 Ile Gly Arg Val Ser Asn Asp Glu Asp Val Tyr Ala Val Arg His Glu
 115 120 125
 Ser

<210> 32753

<211> 80

<212> PRT

<213> A.fumigatus

<400> 32753

Tyr His Asp Ser Ser Met Trp Arg Val Ser Glu Ala Met Leu Leu Gly
 1 5 10 15
 Pro Ser Asn Arg Leu Pro Gly Tyr Leu Ser Trp Lys Leu Glu Glu Asp
 20 25 30
 Ser Leu Ser Ser Val Ser Gln Val Gln Glu Ser Gly Met Ile Ile Ile
 35 40 45
 Gly Ser Val Ser Ser Ser Leu Asp Asp Tyr Asp Leu Val Arg Arg Thr
 50 55 60
 Glu Pro Asn Ser Leu Gly Gly Cys Gln Asp Arg Ala Ile Ser Pro Ser
 65 70 75 80

<210> 32754

<211> 136
 <212> PRT
 <213> A.fumigatus

<400> 32754

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Pro Pro Leu Gln Arg Leu Pro Gly Gly Phe Gly Val His Leu Ala Pro
1          5          10          15
Arg Arg Leu Pro His Ala His Arg Leu Leu Gly Arg Gln Val His Ala
          20          25          30
Arg Pro Ala Asp Pro Gln Arg Ala Gly Pro Glu Ser Leu Leu His Leu
          35          40          45
Leu Gln Arg Pro Gln His Arg His Gln Gln Pro Asp His Arg Arg Leu
          50          55          60
Pro Gly Leu Ser Arg Pro Gly Ser Ala Gly Arg Pro Arg His Arg Gly
65          70          75          80
Tyr His Pro Leu Arg Pro Leu Ala Gly Arg Arg Pro Arg Pro Arg Pro
          85          90          95
Asp His Arg Val Ala Val Gln Ala Gly Arg Gln Pro Trp Leu Arg Gly
          100          105          110
Arg Arg Ala Pro Gly Pro Pro Gly Arg Trp Leu Arg Leu Ser Glu Pro
          115          120          125
Pro Val Cys Asp Val Pro Arg Val
          130          135

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<210> 32755

<211> 390

<212> PRT

<213> A.fumigatus

<400> 32755

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Gln Ser Arg Asn Asn Phe Thr Ile Thr Pro Thr Trp Ala Thr Pro Gly
1          5          10          15
Tyr Asn Pro Gly Ala Ile Glu Pro Gly Ile Trp Asn Val Val Leu Gly
          20          25          30
Pro Tyr Glu Ser Val Pro Asp Gly Ile Asp Trp Gln Leu Asp Ile Glu
          35          40          45
Met Ser Phe Asp Pro Val Asp Ser Trp Phe Ala Pro Asp Tyr Ala Thr
          50          55          60
Thr Asp Leu Asp Pro Leu Cys Asn Gly Cys Gln Glu Asp Ser Ala Phe
65          70          75          80
Thr Trp Leu Arg Gly Asp Phe His Met His Thr Val Tyr Ser Asp Gly
          85          90          95
Lys Tyr Thr Pro Asp Gln Gln Ile His Asn Ala Leu Ala Gln Asn Leu
          100          105          110
Ser Phe Ile Phe Phe Ser Asp His Asn Thr Asp Thr Ser Asn Gln Ile
          115          120          125
Ile Gly Ala Tyr Gln Ala Ser Leu Ala Pro Asp Leu Leu Val Gly Arg
          130          135          140
Ala Ile Glu Val Thr Thr Arg Ser Gly His Trp Gln Ala Val Gly Leu
145          150          155          160
Asp Arg Gly Gln Ile Ile Glu Trp Arg Tyr Lys Pro Asp Asp Asn Pro
          165          170          175
Gly Phe Ala Ala Ala Ala His Gln Val His Arg Val Gly Gly Phe Val
          180          185          190
Ser Ala Asn His Pro Phe Ala Thr Cys Pro Ala Cys Asn Trp Ser Leu
          195          200          205

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12930

Gly Trp Glu Glu Thr Asp Ala Val Glu Val Trp Asn Ala Gln Trp Asp
 210 215 220
 Glu Gln Asp Gln Gln Ala Val Gln Lys Trp Gln Glu Leu Leu Val Asp
 225 230 235 240
 Gly Lys Phe Leu Thr Ala Ile Gly Gly Ser Asp Ser His Ser Pro Pro
 245 250 255
 Ser Leu Asn Gly Trp Pro Thr Thr Ile Val Lys Ala Arg Gly Arg Ser
 260 265 270
 Gln Ala Ala Ile Val Glu Gly Val Lys Ala Gly Arg Ala Tyr Leu Val
 275 280 285
 Gln Gly Pro Gly Met Asp Leu Thr Phe Glu Val Arg Val Pro Ser Leu
 290 295 300
 Asp Ala Pro Ala Gln Ile Gly Asp Lys Val Arg Arg Thr Ala Ala Gly
 305 310 315 320
 Ala Lys Ala Val Leu Val Thr Asp Gly Met Ser Lys Leu Lys Ala Cys
 325 330 335
 Phe Val Ser Asp Lys Gly Tyr Phe Tyr Asn Thr Thr Ile Glu Asp Gly
 340 345 350
 Val Arg Val Lys Thr Gly Val Leu Ser Gly Ala Arg Phe Val Arg Val
 355 360 365
 Glu Val Arg Asn Gly Thr Thr Asp Glu Val Leu Ala Leu Thr Asn Pro
 370 375 380
 Val Trp Phe Leu Gly Pro
 385 390

<210> 32756

<211> 356

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (55), (113)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32756

Lys Gln Phe Pro Lys Met Lys His Ile Cys Ser Ile Ala Trp Leu Val
 1 5 10 15
 Pro Leu Leu Glu Leu Ala Ile Ala Ala Arg Ala Pro Ile Lys Lys Thr
 20 25 30
 Leu Thr Gly His Ile Asp Pro Ser Gln Val Phe Ser Phe Val Tyr Val
 35 40 45
 Pro Phe Glu Val Glu Val Xaa Thr Thr Ser Ile Tyr Val Val Gln Asn
 50 55 60
 Tyr Ser Asn Lys Gly Arg Gly Asn Ala Leu Asp Leu Gly Val Phe Asp
 65 70 75 80
 Gln Arg Gly Tyr Gln Met Met Asp Ala Gln Ser Gly Thr Thr Gly Phe
 85 90 95
 Arg Gly Trp Ser Gly Gly Phe Arg Tyr Val Cys Pro Arg Leu Ser Leu
 100 105 110
 Xaa Trp Phe Leu Leu Asp Lys Val Glu Thr Thr Ser Pro Ser Arg Pro
 115 120 125
 Pro Gly Pro Arg Pro Ala Thr Ile Pro Ala Pro Ser Ser Gln Ala Ser
 130 135 140
 Gly Thr Ser Cys Ser Ala His Thr Asn Pro Ser Pro Thr Val Ser Thr
 145 150 155 160

12931

Gly Ser Trp Ile Ser Lys Cys Pro Ser Thr Pro Ser Thr Arg Gly Ser
 165 170 175
 Pro Gln Thr Thr Pro Pro Pro Thr Leu Thr Pro Ser Ala Thr Ala Ala
 180 185 190
 Arg Arg Ile Arg Arg Ser Pro Gly Ser Ala Ala Thr Ser Thr Cys Thr
 195 200 205
 Pro Ser Thr Arg Thr Ala Ser Thr Arg Pro Thr Ser Arg Ser Thr Thr
 210 215 220
 Arg Trp Pro Arg Ile Ser Pro Ser Ser Ser Ser Ala Thr Thr Thr Pro
 225 230 235 240
 Thr Pro Ala Thr Arg Ser Ser Ala Pro Thr Arg Pro Leu Ser Pro Arg
 245 250 255
 Ile Cys Trp Ser Ala Ala Pro Ser Arg Leu Pro Pro Ala Pro Ala Thr
 260 265 270
 Gly Arg Pro Ser Ala Ser Thr Ala Ala Arg Ser Ser Ser Gly Gly Thr
 275 280 285
 Ser Arg Thr Thr Thr Leu Ala Ser Arg Pro Pro Arg Thr Arg Ser Thr
 290 295 300
 Gly Ser Val Ala Ser Ser Gln Arg Thr Thr Arg Leu Arg Arg Ala Pro
 305 310 315 320
 Arg Val Thr Gly Val Ser Gly Gly Lys Arg Pro Thr Pro Trp Arg Cys
 325 330 335
 Gly Thr Arg Ser Gly Thr Ser Arg Ile Asn Arg Pro Ser Arg Ser Gly
 340 345 350
 Arg Ser Cys Leu
 355

<210> 32757

<211> 69

<212> PRT

<213> A.fumigatus

<400> 32757

His Thr Ile His Arg Leu Val Lys Ile Cys His Ile Arg Lys Glu Ser
 1 5 10 15
 Lys Gly Asn Asn Thr Ile Ile Phe Thr Lys Leu Gln Glu Phe Asn Ser
 20 25 30
 Glu Met Arg Ala Met Ala Ile Lys Tyr Lys Tyr Leu Phe Leu Pro Leu
 35 40 45
 Leu Tyr Thr Leu Ile Tyr Tyr Ile Asn Lys Gly Leu His His Gly Leu
 50 55 60
 Asp Ile Arg Ile Thr
 65

<210> 32758

<211> 63

<212> PRT

<213> A.fumigatus

<400> 32758

Arg Asn Ala Asp Val Glu Ala Val Val Lys Thr Phe Ile Asn Val Ile
 1 5 10 15
 Asn Glu Cys Ile Lys Lys Gly Glu Lys Gln Ile Leu Ile Phe Asp Gly
 20 25 30
 His Gly Ser His Leu Thr Val Glu Phe Leu Gln Leu Cys Glu Asp Tyr
 35 40 45

12932

Ser Val Ile Pro Phe Arg Phe Leu Pro Tyr Met Thr Tyr Leu Tyr
50 55 60

<210> 32759
<211> 62
<212> PRT
<213> A.fumigatus

<400> 32759
Glu Ala Glu Tyr Pro Tyr Leu Asn Pro Tyr Pro Pro Ser Glu Pro Cys
1 5 10 15
Ile Asn Gln Leu Ile Leu Ala Cys Tyr Thr Ser Tyr Thr Ser Ala Ile
20 25 30
Thr Gln Ala Ser Ile Leu Ser Gln Glu Ala Pro Lys Thr Thr Ile Ser
35 40 45
Lys Pro Phe Asp Ala Phe Lys Ile Ser Tyr Pro Ala Ala Tyr
50 55 60

<210> 32760
<211> 83
<212> PRT
<213> A.fumigatus

<400> 32760
Ile Leu Ser Arg Asp Leu Arg Gly Val Pro Pro Arg Pro Ser His Val
1 5 10 15
Gln Glu Met Ala Asn Ile Leu Leu Gln Thr Asp Asn Pro Ser Gly Phe
20 25 30
Lys Pro Ile Gly Lys Asn Trp Val Ser Thr Phe Ile Lys Arg Arg Asp
35 40 45
Glu Ile Lys Thr Gln Tyr Ala Arg Arg Tyr Asn Tyr Ser Arg Ala Gln
50 55 60
Cys Glu Asp Pro Lys Val Ile Lys Gly Trp Phe Asn Cys Leu Gln Gln
65 70 75 80
Ile Gln Met

<210> 32761
<211> 290
<212> PRT
<213> A.fumigatus

<400> 32761
Lys Val Phe Ile Pro Ala Thr Ala Ser Arg Thr Val Gly Arg Tyr Arg
1 5 10 15
Leu Leu Ile Leu Asp Gly His Gly Ser His Leu Thr Pro Gly Phe Asp
20 25 30
Lys Ala Cys Arg Asp Asn Asp Ile Ala Ile Cys Met Pro Ala His
35 40 45
Ser Ser His Leu Leu Gln Pro Leu Asp Val Gly Cys Phe Gly Pro Leu
50 55 60
Lys Arg Ala Tyr Gly Gly Leu Val Glu Gln Lys Met Arg Leu Gly Tyr
65 70 75 80
Asn His Ile Asn Lys Phe Asp Phe Leu Lys Ala Tyr Pro Ala Ala His
85 90 95
Leu Glu Val Phe Thr Pro Leu Asn Ile Gln Asn Gly Phe Ala Ala Ala

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<210> 32762
<211> 752
<212> PRT
<213> A.fumigatus
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Lys	Lys	Asp	Thr	Glu	Arg	Pro	Ser	Asp	Leu	Val	Lys	Ser	Ala	Thr	Ala
1				5					10					15	
Arg	His	Arg	Lys	Gly	Asn	His	Ala	Thr	Pro	Ile	Val	Gln	Ile	Glu	Ser
			20					25					30		
Asn	Glu	Pro	Ser	Lys	Ser	Ala	Asn	Pro	Thr	Thr	Lys	Ala	Ser	Ala	Lys
		35					40					45			
Gln	Ser	Pro	Gly	Leu	Lys	His	Glu	His	Phe	Pro	Ser	Lys	Asp	Glu	Pro
	50					55					60				
Pro	Val	Pro	Glu	Pro	Val	Asp	Lys	Met	Leu	Cys	Arg	Phe	Gln	Gly	Gln
65					70					75					80
Arg	Gly	Lys	Glu	Tyr	His	Ser	Ala	Gln	Asn	Lys	Arg	Arg	Lys	Leu	Asp
				85					90					95	
Val	Ser	Gln	Lys	Lys	Gln	Gly	Leu	Asp	Gln	Asp	Val	Ser	His	Leu	Leu
			100					105					110		
Gln	Asp	Ser	Ser	Ser	Arg	Ile	Ala	Pro	Arg	Asp	Lys	Arg	Asp	Leu	Ser
		115					120					125			
Ala	Val	Thr	Asp	Met	Ser	Tyr	Thr	Asp	Glu	Lys	Arg	Phe	Val	Asp	Gln
	130					135					140				
Ser	Asp	Leu	Lys	Leu	Gln	Ile	Gly	Gly	Gln	Asn	Leu	Gln	Gln	Ala	Lys
145					150					155					160
Ser	Tyr	Gly	Ser	Ser	Gly	Arg	Asn	Lys	Val	Ser	Thr	Ala	Met	Pro	Tyr
				165					170					175	
Leu	Gln	Ser	Thr	His	Met	Glu	Gln	Thr	Lys	Ser	Lys	Asn	Lys	Thr	Leu
			180					185					190		

Ser Ile Ala Ala Asp Phe Ala Thr Ser Arg Ser Gln Phe Gln Ser Asn
 195 200 205
 Ser Lys Ala Glu Thr Ser Thr Gln Val Thr Ala Arg Arg Arg Leu Val
 210 215 220
 Asp Ser Leu Gly Pro Leu Glu Pro Thr Val Glu Asp Ala Val Arg Ala
 225 230 235 240
 Ser Arg Thr Asn Asp Asp Thr Glu Val Asp Pro Leu Pro Arg His Ser
 245 250 255
 Pro Arg Arg Asp Ser Ser Ser Asn Ser Gln Pro Gln Thr Ser Ser Arg
 260 265 270
 Pro Val Lys Leu Val Thr Asp Ser Ala Asn Lys Gly Thr Ala Glu Thr
 275 280 285
 Ser Gly Pro Val Ser Ser Arg Val Gly Gly Cys Lys Val Thr Tyr Ala
 290 295 300
 Arg Gln Arg Ser Phe Leu Asp Asp Thr Ser Ile Val Asp Ser Arg Arg
 305 310 315 320
 Pro Ser Glu Thr Leu Ala Ser Thr Ala Asp Ser Phe Val Gln Gly His
 325 330 335
 Arg Lys Tyr Gly Pro Gln Ile Leu Ser Asn His Ala Ser His Leu Gly
 340 345 350
 Asp Gly Glu Thr Ser Asp Ser Gly Pro Val Arg Gly Ile His Glu Leu
 355 360 365
 Arg Gln Ala Gly Asp Asn Ser Arg Phe Arg Ser Ala Ile Glu Leu Ile
 370 375 380
 Phe Glu Asp Ile Glu Asp Ala Tyr Asn Thr Thr Ser Gly Arg Cys Ser
 385 390 395 400
 Ser Phe Val Gln Ile Cys Glu Lys Leu Leu Asp Arg Gln Phe Val Arg
 405 410 415
 Arg Phe Leu Glu His Gly Phe His Glu Arg Leu Val Gly Cys Ile Asp
 420 425 430
 Asp Arg Leu Asp Val Val Ser Ala Ser Phe Ala Leu Cys Ala Cys Gly
 435 440 445
 Leu Ile Asn Leu Cys Asp Lys Leu Ser His Ile Ser Leu Ile Ser His
 450 455 460
 Trp Ser Asn Val Leu Val Leu Ser Pro Val Leu Leu Pro Val Lys Arg
 465 470 475 480
 Asp Leu Leu Ser Leu Ser Gln Ser Pro Ala Thr Gly Leu Ser Arg Ser
 485 490 495
 Val Gln Met Ser Ile Lys Gln Val Leu Pro Arg Leu Ser Ser Ser Ile
 500 505 510
 Ser Gly Asp Glu Pro Ala Phe Glu Leu Ser Pro Gln Phe Val Ala Leu
 515 520 525
 Ser Ser Ile Gln Ser Cys Leu Val Ser Leu Asn Asn Lys Gly Gly Ser
 530 535 540
 Ile Glu Pro Ile Pro Ala Thr Leu Ser Asp His Ile Val Lys Leu Leu
 545 550 555 560
 Leu Pro Glu Arg Gly Lys Thr Ile Lys Leu Pro Val Ser Arg Glu Arg
 565 570 575
 Phe Lys Thr Leu Ala Leu Ile Phe Ser Ile Leu Glu Ser Tyr Ala Ile
 580 585 590
 Val Phe Ser Ala Ala Asp His Asp Gln Asn Tyr Leu Ser Leu Arg Thr
 595 600 605
 Leu Ser Arg Leu His Glu Ile Leu Asn Leu Ser Gln Cys Asn Gln Gly
 610 615 620
 Arg Gln Leu Arg Met Tyr Tyr Ile Arg Ala Ile Leu Asn Leu Thr Asn
 625 630 635 640

12935

Asn Asp Pro Asn Leu Cys Asn Glu Tyr Ala Thr Pro Glu Leu Val Met
 645 650 655
 Gly Leu Val Asn Ile Val Met Ser Asp Ile Arg Asp Ala Ser Asp Asn
 660 665 670
 Ser Ser Thr Gly Asp Asp Ser Ser Leu Asn Thr Leu Ile Leu Val Leu
 675 680 685
 Gly Val Leu Ile Asn Met Thr Glu Lys Ser Glu Ser Ala Arg Asp Leu
 690 695 700
 Phe Leu Arg Leu Thr Leu Asp Ser Thr Pro Leu Ile Gln Ser Leu Leu
 705 710 715 720
 Glu Arg Phe Tyr Glu Met Val Asn Ser Val Ser Glu Val Trp Lys Arg
 725 730 735
 Ser Lys Gln His Val Ala Phe Lys Phe Val Leu Leu Ile Thr Met Ser
 740 745 750

<210> 32763

<211> 123

<212> PRT

<213> A.fumigatus

<400> 32763

Thr Met Ala Ser Ser Gln Arg Gln Tyr Asn Thr Leu Pro Ser Ser Gly
 1 5 10 15
 Ser Ile Ala Ala Pro Pro Leu Ser Glu Asn Gly Ser Asn Val Tyr Glu
 20 25 30
 Asp Asp Ile Arg Arg Pro Leu Leu Gly Ser Ser Ser Ser Thr Asp Leu
 35 40 45
 Asp Gly Asn Gly Lys Lys Gly Ser Gln Ser Trp Leu Arg Ala Val Tyr
 50 55 60
 Gly Glu Gly Lys Glu Ile Trp Leu Gln Gly Lys Gly Met Ile Leu Val
 65 70 75 80
 Thr Leu Ala Gln Phe Phe Gly Ala Ser Met Asn Val Met Thr Gln Ile
 85 90 95
 Leu Glu Leu Asp Ser Gly Leu His Pro Phe Gln Val Gly Ser Ile Ser
 100 105 110
 Ala Thr Ser Ala Gly Cys Ser Ala Thr His Cys
 115 120

<210> 32764

<211> 320

<212> PRT

<213> A.fumigatus

<400> 32764

Ile Leu Phe Ala Arg Met Ser Val Thr Val Val Ala Ser Tyr Leu Tyr
 1 5 10 15
 Met Trp Tyr Thr Lys Val Pro His Pro Phe Gly Thr Arg Pro Val Leu
 20 25 30
 Gly Leu Leu Ile Phe Arg Ala Met Gly Gly Phe Phe Gly Val Tyr Ser
 35 40 45
 Ile Tyr Tyr Ala Val Gln Tyr Leu Pro Leu Ser Glu Ala Thr Val Leu
 50 55 60
 Thr Phe Leu Ala Pro Ile Leu Cys Cys Tyr Ala Cys Ser Leu Phe Ile
 65 70 75 80
 Pro Asn Glu Thr Phe Thr Arg Arg Gln Gln Leu Ala Ala Leu Val Ser
 85 90 95

12936

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Met Val Gly Val Val Leu Ile Ala Arg Pro Phe Ser Ser Ser Ala Met
      100                      105                      110
Pro Pro Asn Pro Glu Lys Leu Glu Gly Arg Lys Pro Gly Thr Thr Asp
      115                      120                      125
Glu Phe Gln His Ile Val Ala Ile Leu Ala Met Met Val Gly Val Leu
      130                      135                      140
Gly Ser Thr Cys Ala Tyr Thr Ser Ile Arg Ile Ile Gly Gln Arg Cys
145                      150                      155                      160
His Pro Leu Val Ser Val Thr Tyr Phe Ser Leu Phe Thr Thr Val Met
      165                      170                      175
Ser Phe Leu Ala Met Leu Leu Val Pro Ser Val Pro Phe Lys Leu Pro
      180                      185                      190
Glu Thr Gly Leu Glu Trp Thr Leu Ile Val Gly Leu Gly Val Cys Gly
      195                      200                      205
Phe Leu Leu Gln Phe Leu Leu Thr Ala Gly Leu Ser Tyr Val Pro Pro
      210                      215                      220
Pro Pro Arg Arg Ser Gln Arg Val Ser Gly Gly Ala Gly Ser Glu Cys
225                      230                      235                      240
Lys Pro Ala Arg Ser Ser Ser Gly Ser Arg Ala Thr Ser Met Ile Tyr
      245                      250                      255
Thr Gln Met Leu Phe Ala Leu Phe Tyr Asp Lys Val Val Trp Gly Asn
      260                      265                      270
Thr Leu Ser Pro Leu Ser Trp Ala Gly Ser Ala Leu Ile Val Gly Ser
      275                      280                      285
Ala Leu Tyr Val Ala Leu Val Arg Asp Gly Lys Lys Asn Ala Ala Ala
      290                      295                      300
Ala Val Ala Val Asp Glu Thr Ala Glu Glu Glu Arg Glu Pro Val Ala
305                      310                      315                      320

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<210> 32765

<211> 73

<212> PRT

<213> A.fumigatus

<400> 32765

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Leu Pro His Ala Cys Arg Ser Ser Pro Val Val Lys Ile Ser Ile Gln
1          5          10          15
Glu Gly Gln Glu Ile Ile Gln Arg Arg Asp Gln Ala Ala Glu Ala Ile
      20          25          30
Pro Thr Ile Pro Pro Glu Gln Val Val Asp Thr Glu Gln Arg Pro Gln
      35          40          45
Arg Ala Pro Pro Arg Cys Ser Asp Cys His Ile Leu Gly His Arg Arg
      50          55          60
Leu Gln Cys Pro Gln Arg Lys Asn Asn
65          70

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<210> 32766

<211> 61

<212> PRT

<213> A.fumigatus

<400> 32766

```

Asn Leu Ala Ala Ala Glu Ile Gly Gly Tyr Phe Glu Pro Leu Lys His
1          5          10          15
Asp Phe Ile Thr Lys Ser Ser Tyr Ser Cys Ala Ala Asp Ile Ala Ile
      20          25          30

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12937

Ala Tyr Gly Leu Glu Tyr Gly Ser His Cys Ser Val Gly Val Pro Val
 35 40 45
 Glu Gly Val Val Leu Tyr Leu Leu Pro Ala Leu Glu Gly
 50 55 60

<210> 32767
 <211> 388
 <212> PRT
 <213> A.fumigatus

<400> 32767
 Val Thr Tyr Tyr Phe Arg Pro Val Leu Leu Glu Asp Pro Ser Gly Asn
 1 5 10 15
 Arg Pro Phe Tyr Arg Cys Val Leu Thr Asp Arg Leu Phe Leu Val Arg
 20 25 30
 Phe Pro Ala Ser Ser Asp Thr Pro Asp Ser Pro Pro Leu Ser Asp His
 35 40 45
 Pro Ile Ser Pro Leu Leu Leu Tyr Pro Ser Gly Phe Ser Lys Phe Asp
 50 55 60
 Gln Asn Ser Glu Asn Asn Gln Ser Thr Glu Met Val Arg Asn Ile Val
 65 70 75 80
 Val Ile Gly Gly Thr Ser His Pro Gln Leu Thr Gln Thr Ile Cys Asn
 85 90 95
 Val Leu Gly Ile Pro Pro Ala Asp Val Leu Leu Ser Lys Phe Ala Val
 100 105 110
 Gly Glu Thr Arg Val Glu Ile Lys Glu Ser Val Arg Glu Lys Asp Val
 115 120 125
 Tyr Ile Ile Gln Ser Gly Gly Leu Lys Val Asn Asp Ser Leu Met Glu
 130 135 140
 Leu Leu Ile Thr Ile Ser Ala Cys Lys Thr Ala Ser Ala Lys Arg Val
 145 150 155 160
 Thr Ala Val Leu Pro Leu Phe Pro Tyr Ser Arg Gln Ser Asp Ile Pro
 165 170 175
 Tyr Asn Lys Ala Gly Ala Pro Leu Val Lys Ser Ser Asn Ala Ala Lys
 180 185 190
 Pro Gly Asn Gly Tyr Thr Phe Glu Ser Thr Pro Pro Thr Pro His Pro
 195 200 205
 Gly Lys Pro Glu Ser Gly Gly Leu Leu Asn Asn Val Asp Ser Leu Gln
 210 215 220
 Lys Gly Leu Ala Asn Ala Gln Leu Asp Asp Tyr Asn Asn Gly Ser Pro
 225 230 235 240
 Val Lys Lys Arg Ile Pro Asn Gly Pro Pro Arg Ser Asp Thr Thr Glu
 245 250 255
 Ser Leu Lys Ser Asp Val Gly Leu Arg Ser Thr Val Val Asn Gly Gln
 260 265 270
 Ala Asn Asp Glu Asn Ile Gln Ser Lys Ile Ser Ser Phe Arg Pro Arg
 275 280 285
 Pro Gly Tyr Lys Gln Trp Val Ala Gln Ala Gly Thr Leu Val Ala Asp
 290 295 300
 Leu Leu Thr Cys Ala Gly Ala Asp His Ile Ile Thr Met Asp Leu His
 305 310 315 320
 Asp Pro Gln Tyr Gln Gly Phe Phe Asp Ile Pro Val Asp Asn Leu Tyr
 325 330 335
 Gly Arg Pro Leu Leu Lys Ser Tyr Ile Gln Gln Asn Ile Pro Asn Tyr
 340 345 350
 Lys His Ala Val Ile Val Ser Pro Asp Ala Gly Gly Ala Lys Arg Ala

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<210> 32768
<211> 121
<212> PRT
<213> A.fumigatus
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<210> 32769
<211> 156
<212> PRT
<213> A.fumigatus
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<400>	32769															
Asn	Gln	Ala	Asp	His	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	His	His	Ile	
1				5					10					15		
Leu	Ser	Pro	Leu	Ala	Ala	Thr	Ile	Ala	Leu	Val	Val	Val	Thr	Ile	Leu	
			20					25					30			
Val	Ala	Ile	Cys	Ala	Asp	Tyr	Leu	Val	Gly	Ser	Ile	Asp	Ser	Ile	Val	
		35					40					45				
Glu	Lys	Thr	Ser	Met	Ser	Arg	Thr	Phe	Ile	Gly	Leu	Ile	Leu	Ile	Pro	
	50					55					60					
Ile	Val	Gly	Asn	Ala	Ala	Glu	His	Val	Thr	Ala	Val	Val	Val	Ala	Trp	
65				70						75					80	
Lys	Gly	Lys	Met	Asp	Leu	Ala	Ile	Gly	Val	Ala	Val	Gly	Ser	Ser	Leu	
				85					90					95		
Gln	Ile	Ala	Leu	Phe	Val	Thr	Pro	Phe	Leu	Val	Ile	Met	Gly	Trp	Ile	
			100					105					110			
Leu	Asn	Val	Glu	Met	Thr	Leu	Asn	Phe	His	Ile	Phe	Glu	Thr	Val	Ala	
		115					120					125				
Phe	Phe	Ile	Ser	Ser	Leu	Val	Val	Thr	Phe	Leu	Ile	Gln	Asp	Gly	Lys	
	130					135					140					
Ser	Asn	Tyr	Leu	Glu	Gly	Gly	Leu	Cys	Leu	Gly	Met					
145					150					155						

<210> 32770
 <211> 138
 <212> PRT
 <213> A.fumigatus

<400> 32770
 Asp Gly Gly Thr Leu Thr Asp Gly Ile Glu Leu Ala Tyr Val Ile Arg
 1 5 10 15
 Arg Val Glu Pro Asn Asn Ser Pro Thr Asp Lys Gly Val Cys Pro Trp
 20 25 30
 Ser Ile Arg Gln Thr Gly Val Tyr His Lys Met Leu Tyr Pro Asn Gln
 35 40 45
 His Ser Gln Asn Ser Leu Arg Ser Thr Ser Val Phe Ile Leu Ile Ala
 50 55 60
 Pro Ser His Ala Val Glu Lys Ser Ile Pro Tyr Arg Leu Ser Glu Asn
 65 70 75 80
 Val Ser Gln Asp Asp Thr Phe Arg Gln Asp Phe Leu Ile His Glu Tyr
 85 90 95
 Ile Val Gly Asp Ser Leu Lys Gly Trp Met Asp Tyr Gln Ala Trp Leu
 100 105 110
 Glu Ala Glu Ser Lys Gln Ile Val Cys Cys Trp Leu Leu Leu Arg Ile
 115 120 125
 Ile Arg Ser Gln Tyr Tyr Lys Glu Arg His
 130 135

<210> 32771
 <211> 90
 <212> PRT
 <213> A.fumigatus

<400> 32771
 Gln Val Phe Asn Tyr Leu Val Gly Ser Leu Ser Arg Ile Phe Thr Thr
 1 5 10 15
 Leu Gln Glu Val Asp Asp Lys Leu Ile Leu Tyr Gly Phe Ile Ala Gly
 20 25 30
 Phe Val Leu Asn Val Ile Leu Ala Ala Gln Met Val Tyr Tyr Trp Lys
 35 40 45
 Ser Pro Ala Gln Pro Lys Lys Arg Pro Ala Arg Ala Ser Arg Pro Leu
 50 55 60
 Glu Lys Ile Pro Ala Ala Glu Ser Thr Gly Val Ser Thr Lys Pro Ser
 65 70 75 80
 Ala Lys Ser Pro Thr Thr Arg Arg Arg Gly
 85 90

<210> 32772
 <211> 94
 <212> PRT
 <213> A.fumigatus

<400> 32772
 Ser Ser His Pro Ser Ser Ser Ser Ser Pro Pro Gly Ser Pro Arg Gln
 1 5 10 15
 Ala Pro Asn Pro Thr Ala Pro Pro Ala His Ser His Ser Thr His Pro
 20 25 30
 Gly Pro Gln Ala Arg Thr Pro Pro Pro Ala Asp Arg Ala Ile Pro Ser
 35 40 45

12940

Pro Gln Pro Leu Asp Gln Val Ser Cys Ala Gly Val Ala Pro Val Ser
 50 55 60
 Gly Pro Ala Cys Gly Arg Gly Thr Arg Gly Pro Gly Arg Arg Arg Ala
 65 70 75 80
 Arg Arg Gly Gly Leu Cys Tyr Arg Arg Asp Ala Arg Arg Cys
 85 90

<210> 32773

<211> 212

<212> PRT

<213> A.fumigatus

<400> 32773

Ser Arg Ser Ser Leu Gln Ser Gln Ala Gly Ile Ile Ser Asn Asn Leu
 1 5 10 15
 Val Ser Ile Ser Glu His Leu Ala Asp Asn Lys Asp Leu Leu Ser Ala
 20 25 30
 Leu Val Ala Tyr Pro Gly Pro Ser Tyr Pro Gly Arg Thr Gln Ala Pro
 35 40 45
 Thr Leu Glu Gln Leu Leu Arg Thr Lys Leu Asp Pro Arg Val Glu Asp
 50 55 60
 Trp Val Ser Arg Gly Arg Arg Ala Gly Ala Ser Ala Leu Glu Asp Arg
 65 70 75 80
 Gly Ala Leu Ser Glu Ser Ala Leu Ala Glu Leu Trp Asp Trp Ala Pro
 85 90 95
 Val Glu Ala Asn Gln Glu Ala Arg Arg Arg Asn Trp Gly Gly Asn Phe
 100 105 110
 Thr Leu Glu Glu Arg Glu Met Gly Ile Gln Asn Val Val Thr Gly Leu
 115 120 125
 Arg Arg Gln Leu Glu Asp Glu Asp Glu Glu Ala Ser Glu Ser Glu Glu
 130 135 140
 Glu Gly Glu Gly Glu Gly Glu Glu Glu Met Glu Val Val Gly Val
 145 150 155 160
 Arg Arg Arg Ser Gly Ala Gly Ala Gly Leu Glu Phe Asp Ile Ala Ala
 165 170 175
 Pro Ala Pro Gly Ser Arg Gln Gln Gln Gln Gln Lys Ala Ala Gly Pro
 180 185 190
 Ala Val Pro Leu Glu Asp Ile Leu Arg Tyr Met Thr Thr Gly Ile Pro
 195 200 205
 Pro Thr Gln Arg
 210

<210> 32774

<211> 104

<212> PRT

<213> A.fumigatus

<400> 32774

Leu Trp Gly Cys Arg Ile Ala Asn Leu Pro Ala Ile Arg Pro Thr Tyr
 1 5 10 15
 Ser Leu Ser Ala Gly Thr Ser Pro Ser Pro Ser Gln Pro Leu Tyr Leu
 20 25 30
 Asn Ser Ile Ala Ala Gln Ser Glu Leu Leu Ile Gln Ser Lys Met Ala
 35 40 45
 Ser Leu Asn Gln Asp Gln Ile Lys Ile Leu Glu Gln Ser Arg Gln Arg
 50 55 60

12941

Leu Val Gln Leu Thr Arg Ser Leu Ala Ser Leu Ile Gly Ser Leu Asn
 65 70 75 80
 Gln Ser Glu Pro Leu Pro Ser Trp Phe Asn Pro Thr Pro Ala Gln Thr
 85 90 95
 Thr Ala Ser Lys Gly Lys Ile Cys
 100

<210> 32775

<211> 401

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (401)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32775

Pro Pro Arg Ile Pro His Gln Lys Lys Phe Pro Arg Leu Ile Cys Ala
 1 5 10 15
 Ser Ser Glu Phe Cys Trp Asn Leu Glu Arg Gly Thr Gln Asn Gln Leu
 20 25 30
 Val Phe Tyr Met Gly Pro Phe Gly Pro Ile Pro Val Ala Arg Ile Gly
 35 40 45
 Ile Tyr Cys Asn Asp Ala Ser Gly Ile Arg Thr Arg Asp Ser Thr Asp
 50 55 60
 Arg Arg Arg Gly Val Glu Arg Ile Arg Trp Arg His Ser Val His Gln
 65 70 75 80
 Ala Trp Leu Arg Gly Ser Thr Ser Gly Pro Ala Arg Pro Val Pro Ala
 85 90 95
 Ala Pro Pro Asp Asp Cys Pro Gly Trp His Asn Trp His Arg Ala Leu
 100 105 110
 Pro Gln Leu Arg Ala Ser Thr Cys Asn Gly Gly Pro Pro Gly Cys Ile
 115 120 125
 Ser Gly Leu Tyr Asn Cys Trp Pro Trp Gly Phe Glu Arg Arg Pro Asp
 130 135 140
 Cys Arg Arg Asp Gly Cys Val Gly Ser Pro Glu Arg Arg Ala Arg Pro
 145 150 155 160
 Ile Cys Gly Ile Leu Leu Arg Pro Gly His Gly Leu Cys Gln Arg Met
 165 170 175
 Glu Ser Ser Leu Leu Ile His Ser His Tyr Pro Cys Gly Asn Arg Gly
 180 185 190
 Ser Leu Ser Ala Gly Ser Ile Leu Asp His Arg Gln Gln Arg His Leu
 195 200 205
 Asp Tyr Arg Leu Gln Leu Ala Gly Ala Asp Tyr Gly Ala Gly Val Arg
 210 215 220
 Pro Asn Leu Trp Gly Ala Gly Ile Cys Ile Arg His Leu Glu Asn Pro
 225 230 235 240
 Ala His His Trp Gly Glu His His Gly Ala Gly Asp Tyr Leu Arg Arg
 245 250 255
 Arg Thr Gly Trp Thr Ile Asp Trp Phe Gln Ile Leu Glu Arg Pro Arg
 260 265 270
 Ala Phe Cys Ser Val Pro Trp Asp Gln Arg Leu Pro Trp Pro Val Pro
 275 280 285
 Trp Phe Leu Asp Met Ser Gln Gln Cys Arg Leu Leu Val Leu Gly Asn
 290 295 300

Pro Glu Tyr His Asp Pro Arg Gly Arg Asp Gln Val Arg Pro Thr Val
 305 310 315 320
 His Pro Arg Ser Asn Pro Ala Arg Leu Gly Thr Tyr Leu Pro Leu Pro
 325 330 335
 Cys Ser Asn Asp Leu Tyr Asp Trp Pro Gly Ser Ser Leu Arg Thr Ile
 340 345 350
 Pro Leu Phe Cys Gln Leu Met Gly Arg Ala Leu Thr Pro His Leu Leu
 355 360 365
 Met Val Ala Ser Pro Gly Arg Asp Gln Asp Gly Thr Leu Asp His Gln
 370 375 380
 Arg Tyr Tyr Pro Asp Phe Arg Val Val Pro Arg Gly Ile Gln Ile Ser
 385 390 395 400
 Xaa

<210> 32776

<211> 344

<212> PRT

<213> A.fumigatus

<400> 32776

Ser Ala Gln Ala Arg Asn Phe Val Gly Thr Trp Ser Gly Glu His Lys
 1 5 10 15
 Ile Asn Leu Ser Ser Ile Trp Val Leu Leu Val Arg Tyr Pro Trp Leu
 20 25 30
 Val Ser Ala Ser Ile Ala Thr Met Pro Leu Glu Ser Glu Leu Gly Ile
 35 40 45
 Gln Leu Thr Glu Gly Glu Gly Ser Ser Ala Ser Asp Gly Asp Ile Ala
 50 55 60
 Phe Ile Arg Arg Gly Phe Gly Glu Val Gln Ala Val Arg Gln Gly Leu
 65 70 75 80
 Tyr Gln Arg His Leu Gln Met Ile Ala Leu Ala Gly Thr Ile Gly Thr
 85 90 95
 Gly Leu Phe Leu Ser Ser Gly Gln Ala Leu Val Met Gly Gly Pro Leu
 100 105 110
 Gly Ala Phe Leu Ala Tyr Thr Ile Val Gly Leu Gly Val Ser Ser Val
 115 120 125
 Val Leu Thr Val Gly Glu Met Gly Ala Leu Val Pro Leu Ser Gly Gly
 130 135 140
 Leu Val Arg Tyr Ala Glu Tyr Phe Phe Asp Pro Ala Met Ala Phe Ala
 145 150 155 160
 Asn Gly Trp Asn Gln Val Tyr Leu Tyr Thr Val Thr Ile Pro Ala Glu
 165 170 175
 Ile Val Ala Ala Ser Val Leu Val Gln Phe Trp Ile Thr Val Asn Asn
 180 185 190
 Ala Ile Trp Ile Thr Val Phe Ser Leu Leu Val Leu Ile Thr Ala Leu
 195 200 205
 Val Phe Val Arg Ile Tyr Gly Glu Leu Glu Phe Ala Phe Ala Ile Leu
 210 215 220
 Lys Ile Leu Leu Ile Ile Gly Val Asn Ile Met Ala Leu Val Ile Thr
 225 230 235 240
 Cys Gly Gly Gly Pro Asp Gly Gln Ser Ile Gly Phe Arg Tyr Trp Arg
 245 250 255
 Asp Pro Gly Pro Phe Val Gln Tyr Leu Gly Ile Lys Gly Ser Leu Gly
 260 265 270
 Gln Phe Leu Gly Phe Trp Thr Cys Leu Asn Asn Ala Val Phe Ser Tyr

12943

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      275              280              285
Ser Gly Ile Gln Asn Ile Thr Ile Pro Ala Ala Glu Thr Arg Ser Ala
      290              295              300
Arg Arg Ser Ile Pro Glu Ala Thr Arg Arg Val Leu Val Arg Ile Phe
      305              310              315              320
Leu Cys His Val Leu Thr Ile Phe Met Ile Gly Leu Gly Arg Pro Ser
      325              330              335
Glu Arg Phe Pro Ser Ser Ala Asn
      340

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<210> 32777
 <211> 68
 <212> PRT
 <213> A.fumigatus

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<400> 32777
Leu Tyr Arg Pro Ser Arg Ser Pro Pro Gln Leu Ile Val Ser Gln Leu
1              5              10              15
Asp Glu Ala Val Arg Tyr Ser Gly Met Ser Lys Ser Asn Ile Met Glu
      20              25              30
Ile Gly Ala Tyr Arg Tyr Ile Arg Val Tyr Leu Glu Lys Phe Ser Leu
      35              40              45
Arg Tyr Pro Asp Ile Ile Ile Ile Asp Gly Gly Thr Glu Ser Pro Thr
      50              55              60
Asp Ser Asn Leu
65

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<210> 32778
 <211> 209
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (12), (13), (25)
 <223> Identity of amino acid sequences at the above locations are unknown.

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<400> 32778
Leu Pro Arg Gly Ser Ala Gly Asn Ser Asn Ile Xaa Xaa Ala Ser Arg
1              5              10              15
Ile Leu Tyr Gly Met Ala Val His Xaa His Ala His Ala Val Phe Glu
      20              25              30
Arg Leu Asn Arg Phe Ser Val Pro Tyr Val Ala Ile Ser Cys Ile Gly
      35              40              45
Phe Phe Met Ser Leu Gly Tyr Met Ser Leu Thr Glu Ser Ser Thr Ile
      50              55              60
Val Phe Arg Trp Leu Arg Asp Val Val Ser Val Ala Thr Leu Val Asp
      65              70              75              80
Trp Ile Ile Val Cys Ile Val Tyr Leu Arg Phe Tyr Tyr Gly Cys Lys
      85              90              95
Lys Gln Gly Val Asp Arg His Lys Glu Leu Pro Trp Ala Ala Pro Phe
      100              105              110
Gln Pro Tyr Phe Thr Trp Ala Ser Leu Ile Leu Phe Ala Leu Leu Leu
      115              120              125
Ile Thr Gly Gly Tyr Ser Thr Phe Ile His Gly His Trp Asp Thr Glu
      130              135              140

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12944

Thr Phe Val Ser Ser Tyr Ile Asn Ile Pro Ile Val Leu Gly Leu Tyr
 145 150 155 160
 Tyr Gly Tyr Lys Phe Trp Lys Lys Thr His Ile Val Thr Leu Glu Asn
 165 170 175
 Met Pro Leu Val Gly Leu Leu Gln Phe Tyr Leu Ser Gln Asp Glu Asp
 180 185 190
 Glu Pro Glu Pro Arg Pro Arg Lys Gly Leu Ala Lys Leu Asn Ile Leu
 195 200 205
 Trp

<210> 32779
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 32779
 Lys Val Leu Pro Arg Phe His Val Asp Arg Phe Ser Leu Val Arg Val
 1 5 10 15
 Phe Arg Glu Thr Gly Pro Leu Leu Ser Cys Pro Trp Glu Ile Ser Tyr
 20 25 30
 Asn Ser Pro Glu Thr Val Ile Lys Gln Ser Cys Ile Phe Thr Tyr Met
 35 40 45
 Arg Tyr Asn Phe Thr Val Arg Gln Asp Leu Leu Leu Ser Leu
 50 55 60

<210> 32780
 <211> 129
 <212> PRT
 <213> A.fumigatus
 <220>
 <221> UNSURE
 <222> (64)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32780
 Cys Asp Glu Val Lys Pro Asn Cys Gly Asn Cys Leu Arg His Ser Ile
 1 5 10 15
 Glu Cys Asp Tyr Thr Leu Asn Thr Glu Gly Thr Ser Thr Pro Ser Thr
 20 25 30
 Glu Glu Glu Asn Arg Thr Pro Thr Ser Leu Asn Asp Asn Tyr Thr Phe
 35 40 45
 Ile Ser Ser Ser Gln Ser Asn Phe Thr Pro Pro Arg Arg Arg Xaa
 50 55 60
 Ser Arg Pro Leu Pro Thr Gln Glu Asp Ile Glu Pro Lys Pro Gln Leu
 65 70 75 80
 His Leu Pro Val Gly Lys Lys Leu Phe Gln Phe Thr Thr Asn Asp Met
 85 90 95
 Gly Leu Phe His His Phe Ile Thr Ser Ala Glu Leu Gly Arg Ile Phe
 100 105 110
 Lys Thr Leu Ala Glu Pro Thr Val Ser Thr Lys Asp Ser Pro Pro Ile
 115 120 125
 Met

<210> 32781
 <211> 70
 <212> PRT
 <213> A.fumigatus

<400> 32781
 Ser Ser Ile His Val Leu Thr Val Leu Thr Val Ile Asn Phe Leu Gln
 1 5 10 15
 Gly Ser Ser Leu Ala Ala Asp Thr Val Gly His Ile Ile Thr Tyr Glu
 20 25 30
 Val Val Thr Leu Gly Thr Tyr Leu Leu Tyr Thr His Asn Lys Ile Val
 35 40 45
 Leu Ala Arg Val Gly Ser Arg Arg Ser Cys His Leu Cys Thr Glu Val
 50 55 60
 Leu Asn Ser Ile Ile His
 65 70

<210> 32782
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 32782
 Leu His Ala Val Arg Pro Cys Leu Asp His Phe Leu Phe Tyr His Cys
 1 5 10 15
 Ile Asp Cys Ser Phe Ser Val Ser Gly Gln Thr Lys Pro Ser Leu Phe
 20 25 30
 Pro Val Asn Phe Pro Leu Tyr Ser Arg Arg Gln Asp Phe Ala Leu Val
 35 40 45
 Arg Leu Asn Ala Val Lys Leu Ser Pro Pro Ser Phe Gly Leu Glu Thr
 50 55 60
 Thr Tyr Val Phe
 65

<210> 32783
 <211> 170
 <212> PRT
 <213> A.fumigatus

<400> 32783
 Met Thr Ala Leu Gln Thr Ala Arg Ile Thr Leu Ala Gly Glu Gln Leu
 1 5 10 15
 Gly Phe Met Asn Val Ser Asn Ala Gly Ser Thr Val Phe Asn Trp Phe
 20 25 30
 Leu Asn Ile Ser Gly Val Ala Gly Trp Ile Thr Trp Ala Ser Leu Asn
 35 40 45
 Ala Cys His Ile Ala Phe Met Arg Ala Leu Lys Ala Arg Asn Ile Ser
 50 55 60
 Arg Asp Leu Leu Pro Tyr Lys Ala Leu Trp Gln Pro Trp Tyr Ala Tyr
 65 70 75 80
 Tyr Gly Leu Phe Phe Asn Val Leu Ile Ile Leu Thr Gln Gly Phe Thr
 85 90 95
 Ala Trp Ile Pro Thr Phe Ser Val Thr Asp Phe Phe Val Ala Tyr Leu
 100 105 110
 Ser Val Ile Leu Phe Val Val Leu Tyr Leu Gly His Lys Ile Ile Phe
 115 120 125

12946

Arg Pro Ala Phe Val Arg Pro Ile Glu Ala Asp Ile Asp Thr Gly Arg
 130 135 140
 Val Ala Leu Glu Asn Glu Met Trp Glu Thr Val Thr Pro Thr Lys Trp
 145 150 155 160
 Tyr Lys Lys Leu Gly Ser Ala Ile Leu Gly
 165 170

<210> 32784
 <211> 111
 <212> PRT
 <213> A.fumigatus

<400> 32784
 Leu Arg Arg Phe Ala Trp Pro Phe Ser Cys Ser Ala Ile Ser Lys Pro
 1 5 10 15
 Gln Ser Gly Val Leu Pro Asn Ser Gly Asn Tyr Pro Ile Pro Arg Gly
 20 25 30
 Asp Leu Ala Asp Phe Pro Trp Pro Gly Val Ala Gly Asn Pro Ser Gly
 35 40 45
 Phe Phe Phe Ser Pro Asp Ile Tyr Phe Ser Ile Arg Arg Thr Gly Lys
 50 55 60
 Arg Lys Glu Arg Thr Arg Leu Ala Arg Arg Arg Arg Phe Val Leu Ile
 65 70 75 80
 Arg Ser Leu Ala Ser Phe Pro Leu Ser Pro Phe Thr Tyr Pro Asp Ser
 85 90 95
 Met Leu Ser Val Leu Val Ser Ile Thr Phe Ser Phe Ile Ile Val
 100 105 110

<210> 32785
 <211> 148
 <212> PRT
 <213> A.fumigatus

<400> 32785
 Ser Arg Gly Arg Leu Leu Arg Gly Gly Val Arg Val Val Thr Arg Glu
 1 5 10 15
 Glu Glu Arg Pro Thr Phe Ala Arg Cys Ala Gly Asn His Lys Gly Pro
 20 25 30
 Val Tyr Ser Pro Phe Asn Pro Arg Gly Ser Val Lys Pro Pro Gln Tyr
 35 40 45
 Ser Pro His Gln Pro Gly Pro His Gln Pro His Arg Ser Pro Ala Pro
 50 55 60
 Ser Cys Pro Leu Gly Ser Gln Thr Pro Arg Pro Pro Ser Pro Pro Pro
 65 70 75 80
 Ala Pro Arg Ser Thr Pro Leu Ala Ser Arg Ala Pro Cys Thr Pro Gly
 85 90 95
 Arg Arg Pro Ser Arg Gln Trp Ser Ala Gly Thr Arg Asp Ser Ser Ala
 100 105 110
 Arg Gly Gly Ile Pro Ala Ala Gly Gly Arg Cys Gly Ala Arg Gly
 115 120 125
 Arg Pro Ser Arg Ser Arg Arg Arg Gly Arg Arg Ala Ala Arg Pro Gly
 130 135 140
 Gly Ser Arg Arg
 145

<210> 32786

<211> 65
 <212> PRT
 <213> A.fumigatus

<400> 32786

```

Thr Thr Pro Ile Leu Ala Ala Ser Ala Gly Ser Ala Pro Thr Ala Ser
1          5          10          15
Phe Ala Ser Thr Val Val Pro Thr Trp Phe Pro Asn Ala Ala Thr Pro
          20          25          30
Val Pro Thr Thr Gly Ala Thr Val His Thr Pro Cys Val Ala Cys Ala
          35          40          45
Val His Thr Arg Lys Thr Thr Ile Pro Ala Met Val Ser Arg Asn Pro
          50          55          60
Arg
65

```

<210> 32787
 <211> 136
 <212> PRT
 <213> A.fumigatus

<220>

<221> UNSURE

<222> (9)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32787

```

His Glu Ile His Asn Gly Arg Gly Xaa Phe Val Phe Arg Gly Leu Asp
1          5          10          15
Val Asp Arg Tyr Ser Arg Ala Asp Asp Ile Leu Ile Tyr Pro Gly Val
          20          25          30
Ser Ser His Ile Gly Ser Ile Arg Gly Arg Gln Gln Asp Gln Arg Gln
          35          40          45
Ala Asp Gly Thr Ser Val Val Leu Ala His Ile Lys Asp Leu Thr Arg
          50          55          60
Thr Asp Gln Ala Gly Asn Ile Gly Gly Pro Gly Ser Thr Ala Asp Lys
65          70          75          80
Gln Val Phe His Thr Asp Ala Gly Asp Ile Val Ser Leu Phe Cys Leu
          85          90          95
Glu Thr Ala Ala Glu Gly Gly Glu Ser Gln Ile Ser Ser Ser Trp Leu
          100          105          110
Val Tyr Asn Ile Leu Ala Lys Glu Arg Pro Asp Leu Ile Trp Thr Leu
          115          120          125
Ala Thr Asp Trp Pro Val Asp Gly
          130          135

```

<210> 32788
 <211> 209
 <212> PRT
 <213> A.fumigatus

<400> 32788

```

Arg Lys Gln Arg Ile Ala Asn Leu Val Leu Val Ala Phe His Ala Phe
1          5          10          15
Met Gly Thr Phe Ile Ala Ala Gly Ile Ile Ala Ala Tyr Glu Asp Ile
          20          25          30

```

12948

Ala Val Asp Leu Asp Val Ser Ile Gln Lys Val Ser Tyr Leu Thr Ser
 35 40 45
 Leu Gln Ile Ala Ile Leu Gly Gly Gly Pro Leu Val Trp Lys Pro Leu
 50 55 60
 Ser Gln Arg Phe Gly Arg Arg Pro Ile Phe Leu Val Ser Leu Val Leu
 65 70 75 80
 Ser Cys Val Cys Asn Ile Gly Cys Ala Thr Ser Pro Gly Tyr Ala Ser
 85 90 95
 Met Ala Ala Cys Arg Ala Leu Ala Ala Phe Phe Ile Cys Pro Ala Met
 100 105 110
 Ala Ile Gly Ser Ala Val Val Ala Glu Thr Phe Phe Lys Arg Glu Arg
 115 120 125
 Ala Arg Tyr Met Gly Val Trp Thr Val Met Val Thr Leu Gly Val Pro
 130 135 140
 Thr Gly Pro Phe Ile Phe Gly Phe Val Ala Gln Arg Val Gly Tyr Arg
 145 150 155 160
 Trp Ile Tyr Trp Ile Leu Ala Ile Val His Thr Phe Ser Thr Asn Pro
 165 170 175
 Thr Tyr Glu Pro Pro Leu Thr Glu Ala Tyr Arg Pro Thr Pro Ser Ser
 180 185 190
 Ser Ser Ser Thr Ser Ser Ser Ala Leu Arg Pro Ala Thr Ser Ala Pro
 195 200 205
 Thr

<210> 32789

<211> 176

<212> PRT

<213> A.fumigatus

<400> 32789

Pro Thr Ser Ser Trp Trp His Ser Thr Pro Ser Trp Ala Pro Ser Leu
 1 5 10 15
 Gln Pro Ala Ser Ser Pro Arg Thr Lys Thr Ser Arg Ser Thr Trp Met
 20 25 30
 Cys Pro Ser Lys Lys Ser Ala Thr Ser Pro Pro Cys Arg Ser Leu Tyr
 35 40 45
 Trp Ala Ala Ala Arg Trp Ser Gly Asn Arg Ser Arg Ser Ala Ser Asp
 50 55 60
 Gly Gly Arg Ser Ser Leu Ser Arg Trp Cys Ser Ala Ala Cys Val Ile
 65 70 75 80
 Ser Gly Ala Pro Arg Val Arg Val Met Arg Arg Trp Arg Arg Val Gly
 85 90 95
 Arg Ser Leu Arg Ser Ser Ser Ala Leu Arg Trp Arg Leu Gly Val Arg
 100 105 110
 Ser Leu Arg Lys Arg Ser Ser Ser Ala Arg Glu Gln Gly Ile Trp Val
 115 120 125
 Ser Gly Arg Ser Trp Ser Arg Trp Gly Cys Arg Leu Gly Arg Ser Phe
 130 135 140
 Leu Gly Leu Leu Arg Ser Ala Trp Asp Ile Gly Gly Tyr Thr Gly Phe
 145 150 155 160
 Trp Gln Leu Tyr Ile His Ser Leu Leu Thr Leu Arg Met Ser His His
 165 170 175

<210> 32790

<211> 189

<212> PRT

<213> A.fumigatus

<400> 32790

```

Asp Pro Leu His Arg His Arg His Asp Leu Pro Asn His Leu Gly Leu
1      5      10      15
Pro Thr Gly Ile Pro Val Ser Pro Ala His Arg Ser His Pro Leu Tyr
      20      25      30
Ala Pro Arg Ile Leu Pro Pro Ala His Ala Leu His Gln His Pro Arg
      35      40      45
Pro His Arg Arg Val Arg Leu Arg His Gly Leu Pro Leu Arg Gln Arg
      50      55      60
Pro Gln Leu Arg Arg Ser Ala Pro Ala Ala Pro Ile Gln Val Leu Pro
65      70      75      80
Gln Arg Ala Ala Ala Arg Pro Ala Val Pro Arg Ala His Arg Arg Leu
      85      90      95
Pro Pro Gly Arg Ala Ala Arg Arg Pro Arg Leu Arg Leu Leu Asp Gly
      100     105     110
Leu Pro Arg Ala Pro His Leu Pro Pro Pro Ala Ala Gly Ile Pro Pro
      115     120     125
Leu Ala Glu Leu Ser Arg Val Pro Ala Asp His Cys Arg Asp Gly Arg
      130     135     140
Leu Pro Gly Val His Gly Ala Arg Asp Ala Arg Gly Val Asp Arg Gly
145     150     155     160
Ala Gly Gly Gly Asp Gly Gly Arg Gly Val Trp Glu Pro Ser Gly His
      165     170     175
Asp Gly Ala Gly Glu Arg Cys Gly Trp Cys Gly Pro Gly
      180     185

```

<210> 32791

<211> 94

<212> PRT

<213> A.fumigatus

<400> 32791

```

Asn Gln Asp Ser Lys Met Gly Glu Ile Gln Thr Leu Arg Gln Pro Asp
1      5      10      15
Ile Gln Tyr His Pro Asp Tyr Glu Lys Tyr Leu Ala Arg Val Gln Arg
      20      25      30
Arg Lys Ala Thr Glu Asp Leu Pro Thr Ser Leu Pro Pro Gly Phe Pro
      35      40      45
Glu Lys Leu Ser Ser Pro Leu Val Trp Glu Gly Lys Glu Ile Glu Lys
      50      55      60
Gln Asn Asp Trp Ile Tyr Lys Leu Asp Asp Ala Gln Arg Glu Glu Ile
65      70      75      80
His Ala Ala Leu Ser His Phe Lys Gly Lys Leu Pro Asn Arg
      85      90

```

<210> 32792

<211> 143

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (44)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32792

```

Gln Gly Met Thr Asn Val His Ser Pro Glu Pro Arg Thr Arg Leu His
1           5           10           15
Gln Ser Arg Asp Ile Pro Pro Pro Asn Ser Pro Ser Tyr Thr Ala Gly
          20           25           30
Thr Ile Ala Arg Asp Ser Gln Arg Ala Arg Leu Xaa Arg Leu Pro Arg
          35           40           45
Pro Arg Arg Arg Ser Val Leu Pro Arg Arg Arg His Pro His Leu Pro
          50           55           60
Gly Arg Ile Leu Ala Tyr Trp Lys His Pro Arg Pro Ala Ala Gly Pro
65           70           75           80
Thr Thr Ser Arg Arg Asp Val Ser Arg Ala Arg Thr Tyr Gln Gly Pro
          85           90           95
Asp Ser His Arg Ser Ser Arg Gln His Arg Arg Ala Arg Gln His Ser
          100          105          110
Arg Gln Ala Ser Leu Pro His Arg Arg Arg Arg His Arg Leu Ala Val
          115          120          125
Leu Ser Arg Asp Ser Gly Arg Gly Arg Arg Lys Pro Asp Leu Gln
          130          135          140

```

<210> 32793

<211> 145

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (116)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32793

```

Leu Ala Gly Val Gln His Pro Arg Gln Gly Thr Thr Gly Phe Asp Leu
1           5           10           15
Asp Val Gly Asn Gly Leu Ala Gly Gly Trp Val Ser Val Arg Leu Leu
          20           25           30
Pro Gln Leu Leu Ser Cys Leu Pro Arg Ser Phe Asn Asn Pro Glu Arg
          35           40           45
Pro Tyr Thr Leu Arg Pro Leu Leu Tyr His Gln Asp Ala Thr Ala Ser
          50           55           60
Thr Pro Glu Arg Val Leu Ile Gln Tyr Ala Arg Arg Tyr Phe Thr Gly
65           70           75           80
Phe Leu Ala Gln Pro Arg Ser Ala Asn Ile Pro Pro Ile Thr Glu Ala
          85           90           95
Gln Ala Glu Ala Leu Glu Arg Gly Glu Phe Ser Trp Pro Glu Glu His
          100          105          110
Ser Ala Ala Xaa Asp Phe Gln Lys Gly Asp Val Gln Tyr Ile Ile Asn
          115          120          125
Leu Ser Ile Phe His Ala Arg Lys Gly Phe Arg Asp Gly Pro Gly Lys
          130          135          140
Glu
145

```

<210> 32794

<211> 212

<212> PRT

<213> A.fumigatus

<400> 32794

```

Thr Asn Ala Val Gln Phe Ile Leu Tyr Leu Phe Leu Gly Pro Glu Thr
1           5           10           15
Arg Tyr Ile Gly Thr Asp Met Thr Ser Gln Thr Thr Ser Ala Phe Gln
           20           25           30
Arg Glu Tyr Leu Ser Leu Arg Arg Ile Asp Pro Thr Pro Phe Thr Leu
           35           40           45
His Glu Phe Tyr His Pro Leu Thr Leu Phe Thr Asn Ile Pro Val Leu
           50           55           60
Thr Ala Ala Cys Ala Tyr Ala Met Val Phe Leu Phe Gly Ser Val Leu
65           70           75           80
Asn Ser Val Glu Val Pro Gln Leu Leu Gln Ser Lys Phe Ser Leu Asn
           85           90           95
Ala Gln Gln Leu Gly Leu Gln Phe Leu Gly Leu Ile Val Gly Ser Leu
           100          105          110
Leu Gly Glu Gln Leu Gly Gly His Ala Ser Asp Ser Trp Met Ala Phe
           115          120          125
Arg Ala Arg Arg Ile Ser Arg Arg Pro Pro Pro Glu Phe Arg Leu Trp
           130          135          140
Leu Ser Tyr Leu Gly Phe Leu Leu Thr Ile Ala Gly Met Val Val Phe
145           150          155          160
Leu Val Cys Thr Ala His Ala Thr Gln Gly Val Trp Thr Val Ala Pro
           165          170          175
Val Val Gly Thr Gly Val Ala Ala Phe Gly Asn Gln Val Gly Thr Thr
           180          185          190
Val Leu Ala Asn Asp Ala Val Gly Ala Asp Pro Ala Asp Ala Ala Ser
           195          200          205
Ile Gly Val Val
           210

```

<210> 32795

<211> 90

<212> PRT

<213> A.fumigatus

<400> 32795

```

Arg Cys Leu Gly Glu Ser Ser Thr Ile Arg Asp Gly Pro Ala Thr Thr
1           5           10           15
Gly Ile Val Phe Lys Gly Asp Met Ala Glu Asn Glu Ala Phe Arg Leu
           20           25           30
Arg Asp Met Ala Ser Ser Cys Ala Thr Asn Asn Asp Thr Glu Val Asn
           35           40           45
Val Ile Lys Val Ser Ala Leu Pro Ile Gly Arg Phe Arg Lys Trp Arg
           50           55           60
Ile Cys Arg Thr Met Glu Lys Gln Tyr Asp Glu Glu Ile His Gly Ser
65           70           75           80
Ala Ser Ser Phe Ala Glu Glu Arg Arg Arg
           85           90

```

<210> 32796

<211> 138

<212> PRT

<213> A.fumigatus

<400> 32796

Gln Gly Thr Phe Ser Arg Asn His Arg Ser Ser Leu Ser Ser Leu Thr
 1 5 10 15
 Thr Leu Ala Pro Arg Arg Thr Pro Ser Pro Thr Pro Ser Val Ala Gly
 20 25 30
 Ile Glu Arg Tyr Pro Leu Lys Val Thr Arg Arg Met Gly Lys Lys Met
 35 40 45
 Val Glu Lys Arg Ser Arg Ile Lys Pro Phe Ile Lys Ile Val Asn Tyr
 50 55 60
 Asn His Leu Met Pro Thr Arg Tyr Thr Leu Glu Leu Glu Gly Leu Lys
 65 70 75 80
 Gly Ala Ile Ser Gln Glu Thr Phe Lys Glu Val Ser Thr Arg Glu Asp
 85 90 95
 Ala Lys Lys Thr Val Lys Lys Ala Leu Glu Asp Arg Tyr Thr Ser Gly
 100 105 110
 Lys Asn Arg Trp Phe Phe Thr Pro Leu Arg Thr Cys Asn Leu Cys Leu
 115 120 125
 Phe Leu Pro Cys Cys Glu Arg Val Leu Cys
 130 135

<210> 32797

<211> 137

<212> PRT

<213> A.fumigatus

<400> 32797

Glu Gly Thr Thr Lys Pro Phe Leu Phe Leu Arg Val Leu Ala Lys Ile
 1 5 10 15
 Trp Met Arg Val Glu Gly Leu Val Arg His Phe Ser Met Val Asp Val
 20 25 30
 Glu Arg Lys Asn Glu Arg Asp Val Leu Asp Glu Leu Gly Lys Arg Glu
 35 40 45
 Ile Gly Leu Gly Arg Asp His Leu Asp Ile Glu Lys Asp Val Leu Thr
 50 55 60
 Arg Asp Leu Phe Ala Lys Ser Gln Val Val Ile Val Gln Pro Asn Asp
 65 70 75 80
 Thr Gly Ser Lys Ala His Pro Phe Pro Tyr Ala Ile Arg Arg Arg Tyr
 85 90 95
 Arg Ala Leu Pro Pro Gln Gly His Pro Pro His Gly Gln Glu Asp Gly
 100 105 110
 Arg Glu Ala Gln Pro His Gln Ala Phe His Gln Asp Cys Gln Leu Gln
 115 120 125
 Pro Leu Asp Ala His Pro Leu His Ser
 130 135

<210> 32798

<211> 348

<212> PRT

<213> A.fumigatus

<400> 32798

Glu Pro Arg Arg Thr Ser Leu Phe Asn Glu Arg Leu Ile Leu Ser Ser
 1 5 10 15
 Glu Lys Ser Arg Ile Pro Ala Trp Cys Asp Arg Ile Leu Trp Lys Gly
 20 25 30

12953

Ser Asn Ile His Gln Leu His Tyr Asp Ser Ala Cys Leu Gln Cys Ser
 35 40 45
 Asp His Arg Pro Val Trp Ala Val Phe Ser Cys Asp Ile Asn Phe Val
 50 55 60
 Asp Asp His Leu Arg Glu Asn Ile Arg Ser Met Ile Tyr Ala Met Glu
 65 70 75 80
 Val Gly Asp Ser Pro Glu Thr Pro Ala Lys Ser Lys Thr Gln Ala Lys
 85 90 95
 Val Arg Lys Arg Glu Ser Ala Glu Leu Asp Phe His Thr Leu Asp Leu
 100 105 110
 Pro Ser Ala Ser Ser Asp Asp Arg Trp Trp Leu Asp Asn Gly Met
 115 120 125
 Thr Ser Gln Ile Leu Asn Arg Leu Leu Glu Asn Ile Phe Val Ser Gly
 130 135 140
 Tyr Ser Asn His Ser Tyr Val Ala Gly Met Pro Val Lys Ser Ile Ile
 145 150 155 160
 Gln Pro Pro Ser Asn Gly Trp Ser Leu Asn Met Asn Arg Glu Ser Asn
 165 170 175
 Pro Phe Ser Ser Ser Asn Ala Pro Asp Trp Val Pro Ala Arg Arg Leu
 180 185 190
 Thr Asp Ser Gln Lys Ala Val Val Asp Asn Ile Asp Pro Ile Thr Tyr
 195 200 205
 Lys Pro Pro Leu Pro Pro Arg Gly Gly Asn Gly Ala Ala Asp Ser Ser
 210 215 220
 Asp Leu Ile Tyr Glu Thr Asp Met Gln Ser Ser Arg Ala Asn Gly Ala
 225 230 235 240
 Lys Lys Ala Pro Pro Ile Pro Arg Lys Pro Val Ala Leu Arg Asn Asp
 245 250 255
 His Lys Ala Leu Ser Gly Gln Ala Gly Trp Gln Ser Gly Met Lys Ala
 260 265 270
 Leu Gly Ser Val Pro Ser Gln Pro Ser Asn Arg Leu Asp Val Pro Arg
 275 280 285
 Phe Asp Leu Gly Asp Gln Ile Lys Pro Pro Pro Ala Val His Arg Val
 290 295 300
 Pro Gly Ser Gln Asp Ser Leu Ser Val Gly Ser Arg His Leu Gly Gly
 305 310 315 320
 Phe Glu Arg His Thr Asp Ile Thr Lys Asp Leu Leu Asp Gly Glu Val
 325 330 335
 Asp Ser Glu Ile Lys Trp Glu Pro Leu Leu Pro Lys
 340 345

<210> 32799

<211> 184

<212> PRT

<213> A.fumigatus

<400> 32799

Ala Leu Leu Gln Ser Ala Asp Pro Ser Thr Pro Val Val Lys Thr Arg
 1 5 10 15
 Ile Ala Arg Gly Phe Phe Gln Pro Gly Lys Val Lys Pro Asp Ile Val
 20 25 30
 Val Pro Gly Val Leu Leu Glu Leu Phe Leu Val Leu His Pro Ala Leu
 35 40 45
 Gly Gln Asn His Ile Leu Asn Ala Leu Ser Val Thr Lys Leu Leu Leu
 50 55 60
 Lys Cys Arg Val Gly Leu Val Lys Arg His Arg Leu Gly Thr Gly Gln

12954

65		70		75		80									
Pro	Val	Gln	Gly	Val	Phe	Val	Asp	Cys	Ser	Arg	Pro	Leu	Ile	Leu	Leu
				85					90					95	
Glu	Leu	Cys	Leu	Glu	Phe	Arg	Val	Arg	Asp	Glu	Glu	Leu	Leu	Val	His
			100					105					110		
Lys	Ile	Leu	Thr	Gln	Gly	Leu	Asp	Cys	His	Pro	Val	His	Phe	Pro	His
		115					120					125			
Gln	Val	Thr	Arg	Pro	Val	Leu	Leu	Leu	Lys	Pro	Gly	Pro	Phe	Asp	Pro
		130					135				140				
Val	Pro	Trp	Leu	Arg	Val	Asp	Asp	Arg	Lys	Pro	Leu	Glu	Asp	Cys	Ala
145					150					155					160
Arg	Ala	Leu	Lys	Leu	Ile	Val	Pro	Leu	Leu	Lys	Leu	Asp	Ile	Arg	Thr
			165						170					175	
Pro	Arg	Ala	Leu	Val	Arg	Leu	Pro								
			180												

<210> 32800

<211> 146

<212> PRT

<213> A.fumigatus

<400> 32800

His	Pro	Pro	Leu	Lys	His	Leu	Pro	Arg	Ser	Leu	Asp	Ile	Pro	Gln	Arg
1				5					10					15	
Leu	Leu	His	Val	His	Val	Leu	Val	Pro	Glu	Leu	Val	His	Ala	Gly	Gln
			20					25					30		
Asp	Gly	Asp	Arg	Pro	Val	Gln	Gln	Val	Pro	Arg	Met	Val	Asp	Val	Ala
	35					40					45				
Ile	Pro	His	Phe	Arg	Leu	Asp	Ile	Pro	Asp	Pro	Glu	Tyr	His	Arg	Gly
	50				55					60					
Arg	Val	Asp	Val	Gln	Arg	Pro	Phe	Glu	Asp	Arg	Ser	Arg	Pro	Ala	Lys
65				70					75					80	
Phe	Leu	Leu	Leu	Gln	Leu	Pro	Arg	Cys	Ile	Pro	His	Pro	Val	Val	His
				85				90					95		
Val	Gln	Pro	Ile	Ala	Ala	His	Ile	Val	Phe	Lys	Leu	Leu	Ser	Leu	Ala
			100					105					110		
Ala	Leu	Val	Leu	Val	Gln	Phe	Phe	Glu	Val	Arg	Glu	Ser	Leu	Cys	Arg
		115				120					125				
Arg	Leu	Gln	Arg	Arg	Leu	Leu	Pro	Ile	Asn	Ser	Leu	Ala	Lys	Gln	Leu
	130					135					140				
Leu	Arg														
145															

<210> 32801

<211> 536

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (521), (532), (536)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32801

Pro	Ala	Ala	Ser	Leu	Ala	Ser	Ala	Val	Ala	Cys	Gly	Tyr	Ile	Ala	Val
1				5				10					15		

Ile Met Ser Asn Ala Glu Glu Phe Leu Arg Asp Phe Glu Glu Glu Asp
 20 25 30
 Asp Glu Val Phe Gln Ala Gly Glu Glu Val Glu Glu Asp Val Gly Glu
 35 40 45
 Glu Val Gln Arg Pro Thr Pro Glu Val Thr Asn Glu Phe Asp Val Ala
 50 55 60
 Val Ser Thr Thr Asp Glu Leu Thr Arg Leu His Lys Ser Leu Arg Asp
 65 70 75 80
 His Tyr Ser Ile Arg Phe Pro Glu Leu Glu Thr Leu Val Thr Asn Pro
 85 90 95
 Ile Asp Tyr Ala Lys Thr Val Ala Ile Leu Lys Asn Gly Pro Leu Asn
 100 105 110
 Asp Ile Lys Ala Leu Ser Ser Ser Ala Asp Asn Met Val Gly Ala Pro
 115 120 125
 Leu Lys Ser Ile Leu Asp Gly Pro Ser Leu Met Val Val Ala Val Glu
 130 135 140
 Gly Thr Thr Thr Arg Gly Arg Glu Met Thr Glu Ala Glu Leu Lys Val
 145 150 155 160
 Val Leu Asp Thr Cys Glu Arg Ile Leu Lys Leu Asp Arg Glu Arg Thr
 165 170 175
 Ala Leu Thr Gln Ser Ile Gln Ser Arg Met Asn Gln Ile Ala Pro Asn
 180 185 190
 Leu Ala Ala Leu Ile Gly Pro Glu Thr Ala Ala Gln Phe Leu Asn Gln
 195 200 205
 Thr Gly Gly Leu Arg Glu Leu Ala Lys Ile Pro Ala Cys Asn Leu Ala
 210 215 220
 Ala Gln Gly Ser Lys Arg Ser Glu Gly Leu Gly Phe Ala Thr Asn Ile
 225 230 235 240
 Gly Ile Arg Ser Gln Gly Phe Leu Tyr His Ser Pro Ile Ile Gln Asp
 245 250 255
 Ile Pro Asn Asp Leu Lys Lys Gln Ala Ile Arg Ile Val Ala Ala Lys
 260 265 270
 Met Val Leu Ala Thr Arg Ala Asp Val Ala Lys Tyr Ser Pro Asp Gly
 275 280 285
 Ser Leu Gly Glu Glu Leu Lys Gln Gln Cys Tyr Gln Arg Leu Glu Lys
 290 295 300
 Leu Thr Glu Pro Pro Pro Asn Ala Gly Val Lys Ala Leu Pro Ala Pro
 305 310 315 320
 Asp Asp Lys Pro Ser Arg Lys Arg Gly Gly Arg Arg Ala Arg Lys Ala
 325 330 335
 Lys Glu Ala Ile Ala Met Thr Glu Leu Arg Lys Ala Gln Asn Arg Val
 340 345 350
 Ala Phe Gly Lys Glu Glu Ala Glu Val Gly Tyr Gly Thr Gly Glu Thr
 355 360 365
 Thr Val Gly Leu Gly Met Leu Gly Gln Gln Asn Asp Gly Arg Ile Arg
 370 375 380
 Ala Thr Gln Ile Asp Gln Arg Thr Arg Ala Lys Leu Ser Lys Ser Asn
 385 390 395 400
 Lys Gly Trp Gly Ala Ala Thr Pro Ile Ser Gly Thr Ala Thr Ser Leu
 405 410 415
 Arg Gly Phe Gly Ser Gly Ala Gly Gly Thr Ala Ser Val Leu Gln Ala
 420 425 430
 Lys Gly Leu Arg Thr Ser Gly Val Gly Pro Ser Phe Ala Gly Ile Ala
 435 440 445
 Gly Thr Ala Ser Thr Ile Ala Phe Thr Pro Val Gln Gly Leu Glu Leu
 450 455 460

12956

Val Asp Pro Lys Ala Gln Ala Glu Leu Gln Arg Lys Arg Lys Ala Glu
 465 470 475 480
 Glu Asp Arg Trp Phe Lys Ser Gly Thr Phe Thr Gln Val Gly Gly Gln
 485 490 495
 Ser Ser Ser Thr Asn Asn Ser Gly Ala Asn Gly Gly Phe Lys Val Pro
 500 505 510
 Arg Thr Ala Cys Met Glu Lys Gly Xaa Thr Pro Leu Arg Ala Asp Ala
 515 520 525
 Pro Pro Pro Xaa Pro Val Gln Xaa
 530 535

<210> 32802
 <211> 99
 <212> PRT
 <213> A.fumigatus

<400> 32802
 Ile Thr Phe Ala Leu Gln Lys Leu Asn Leu Pro Pro Pro Ile Val Asp
 1 5 10 15
 Thr Gln Pro Ile Val Pro Pro Thr His His Pro Leu Ser Pro Trp Ser
 20 25 30
 His Pro Ala Gly Pro Leu Gly Ser Arg Thr Arg Leu Pro Arg Arg Ser
 35 40 45
 Arg Ser Gln Arg Ser Ser Cys Phe Ala Arg Leu Leu Ile Gly Arg Ser
 50 55 60
 Arg Arg Cys Arg Arg Arg His Ser Asp Ser Arg Thr Ser Lys Asn Cys
 65 70 75 80
 Thr Ser Thr Arg Ala Ala Arg Glu Arg Ser Leu Lys Thr Met Cys Ala
 85 90 95
 Ala Ile Gly

<210> 32803
 <211> 364
 <212> PRT
 <213> A.fumigatus

<400> 32803
 Tyr Pro Thr His Arg Thr Ser Asn Thr Pro Ser Ile Val Thr Met Glu
 1 5 10 15
 Ser Ser Arg Gly Pro Pro Arg Val Lys Asn Lys Ala Pro Ala Pro Ile
 20 25 30
 Gln Ile Ser Ala Glu Gln Leu Leu Arg Glu Ala Val Asp Arg Gln Glu
 35 40 45
 Pro Ala Leu Gln Ala Pro Thr Gln Arg Phe Ala Asp Leu Glu Glu Leu
 50 55 60
 His Glu Tyr Gln Gly Arg Lys Arg Lys Glu Phe Glu Asp Tyr Val Arg
 65 70 75 80
 Arg Asn Arg Leu Asn Met Asn Asn Trp Met Arg Tyr Ala Ser Trp Glu
 85 90 95
 Leu Glu Gln Lys Glu Phe Arg Arg Ala Arg Ser Ile Phe Glu Arg Ala
 100 105 110
 Leu Asp Val Asn Pro Thr Ser Val Val Leu Trp Ile Arg Tyr Ile Glu
 115 120 125
 Ser Glu Met Arg Asn Arg Asn Ile Asn His Ala Arg Asn Leu Leu Asp
 130 135 140

Arg Ala Val Thr Ile Leu Pro Arg Val Asp Lys Phe Trp Tyr Lys Tyr
 145 150 155 160
 Val Tyr Met Glu Glu Thr Leu Gly Asn Ile Gln Gly Thr Arg Gln Val
 165 170 175
 Phe Glu Arg Trp Met Ser Trp Glu Pro Asp Glu Gly Ala Trp Ser Ala
 180 185 190
 Tyr Ile Lys Leu Glu Lys Arg Tyr Asn Glu Phe Glu Arg Ala Arg Ala
 195 200 205
 Ile Phe Gln Arg Phe Thr Ile Val His Pro Glu Pro Arg Asn Trp Ile
 210 215 220
 Lys Trp Ala Arg Phe Glu Glu Glu Tyr Gly Thr Ser Asp Leu Val Arg
 225 230 235 240
 Glu Val Tyr Gly Met Ala Ile Glu Thr Leu Gly Glu Asp Phe Met Asp
 245 250 255
 Glu Lys Leu Phe Ile Ala Tyr Ala Lys Phe Glu Ala Lys Leu Lys Glu
 260 265 270
 Tyr Glu Arg Ala Arg Ala Ile Tyr Lys Tyr Ala Leu Asp Arg Leu Pro
 275 280 285
 Arg Ser Lys Ala Met Ala Leu His Lys Ala Tyr Thr Thr Phe Glu Lys
 290 295 300
 Gln Phe Gly Asp Arg Glu Gly Val Glu Asp Val Ile Leu Ser Lys Arg
 305 310 315 320
 Arg Val Gln Tyr Glu Glu Gln Leu Lys Glu Asn Pro Arg Asn Tyr Asp
 325 330 335
 Val Trp Phe Asp Phe Ala Arg Leu Glu Glu Thr Ser Gly Asp Pro Gly
 340 345 350
 Leu His His Gly Gly Gly Arg Val Ser Arg Leu Gln
 355 360

<210> 32804

<211> 67

<212> PRT

<213> A.fumigatus

<400> 32804

Thr Thr His Leu Val Arg Val Arg Tyr Ile Asn Val Phe Asp Gly Gly
 1 5 10 15
 Val Met Ala Ser Tyr Leu Met Phe Gln Ser Ala Ser Gly Val Ser Gly
 20 25 30
 His Asn Ile Thr Trp Ala Arg Leu Ala Leu Gly His Val Ile Thr Ser
 35 40 45
 Gln Leu Cys Pro Thr Ile Ile Asn Thr Ser Arg Cys Ile Ala Met Ile
 50 55 60
 Phe Gly Gly
 65

<210> 32805

<211> 163

<212> PRT

<213> A.fumigatus

<400> 32805

Arg Val Pro Asp Glu Tyr Ser Asn Leu Pro Lys Glu Leu Tyr Gln Pro
 1 5 10 15
 Arg Ile Met Thr Asp Thr Phe Pro Ala Ala Leu Val Gly Pro Ser Ser
 20 25 30

12958

Lys Glu Arg Lys Tyr Asp Arg Gln Leu Arg Leu Trp Ala Ala Ser Gly
 35 40 45
 Gln Gln Ala Leu Glu Glu Ser Arg Val Leu Leu Val Asn Ser Asp Gly
 50 55 60
 Ser Trp Gly Asp Gln Gly Thr Gly Val Ser Gly Val Ala Gly Val Glu
 65 70 75 80
 Thr Leu Lys Asn Leu Val Leu Pro Gly Ile Gly Gly Phe Thr Ile Val
 85 90 95
 Asp Pro Ala Val Val Thr Glu Pro Asp Leu Gly Val Asn Phe Phe Leu
 100 105 110
 Glu Ser Glu Ser Leu Gly Lys Ser Arg Ala Glu Glu Thr Cys Arg Leu
 115 120 125
 Leu Arg Glu Leu Asn Pro Asp Val Glu Gly Ser Phe Arg Pro Lys Val
 130 135 140
 Tyr Met Thr Ala Thr Ser Ser Leu Ala Leu Arg Ile Gly Gly Ala Asn
 145 150 155 160
 Leu Asn Tyr

<210> 32806

<211> 206

<212> PRT

<213> A.fumigatus

<400> 32806

Tyr Trp Thr Pro Pro His Arg Gly Leu Phe Ser Gly Asp Cys Ala Pro
 1 5 10 15
 Ala Gly Gly Pro Arg Lys Pro Ser Gln Arg Met His Ala Leu Ser Ala
 20 25 30
 Leu Asn Leu Thr Cys Leu Ser Met Leu Cys Arg Thr Arg Pro Leu Phe
 35 40 45
 Arg Phe Ser Ser Phe Ile Ser Tyr Pro Arg Ser His Pro Ile Tyr Pro
 50 55 60
 Thr Leu Ser Pro Ile Tyr His Pro Pro Thr Arg Phe Gln Ser Asn Met
 65 70 75 80
 Ala Ser Val Ile Glu Ala Ala Lys Arg Ala Ala Gly Lys Ala Ala Val
 85 90 95
 Ala Asn His Tyr Pro Lys Asp Ala Lys Phe Val Gly Ile Gly Ser Gly
 100 105 110
 Ser Thr Ile Val Tyr Val Val Glu Ala Ile Lys Glu Ser Gly Ile Asp
 115 120 125
 Thr Ser Met Thr Arg Tyr Val Pro Thr Gly Phe Gln Ser Lys Gln Leu
 130 135 140
 Ile Leu Ser Ala Gly Leu Thr Ala Val Asp Phe Asp Ser Leu Pro Glu
 145 150 155 160
 Gly Thr Val Leu Asp Val Ala Phe Asp Gly Ala Asp Glu Val Asp Asp
 165 170 175
 Glu Leu Asn Leu Ile Lys Gly Gly Gly Ala Cys Leu Phe Gln Glu Lys
 180 185 190
 Ile Val Ala Leu Gln Ala Lys Glu Phe Ile Cys Val Ala Gly
 195 200 205

<210> 32807

<211> 130

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (112)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32807

```

Tyr Leu Arg Pro Asp Ser Arg Lys Leu Gln Ser Arg Leu Leu Thr Asn
1           5           10           15
Trp Lys Tyr Ile Pro Ile Glu Val Ala Pro Ile Ala Ala Pro Arg Val
          20          25          30
Leu Thr Lys Leu Arg Glu Leu Gly Ser Ile Gln Pro Ala Ile Arg Pro
          35          40          45
Ser Gly Thr Ser Lys Gly Pro Leu Lys Thr Asp Gln Asp Phe Tyr Ile
          50          55          60
Ile Asp Ala Pro Phe Pro Pro Leu Leu Thr Lys Ala Asp Val Ala Ala
65          70          75          80
Gly Lys Asp Gly Ser Gly Lys Gly Gly Ile Trp Glu Val Asp Ala Leu
          85          90          95
Ala Gln Ala Ile Lys Met Ile Ala Gly Val Leu Glu Val Gly Ile Xaa
          100         105         110
Ser Gly Val Thr Gly Pro Gln Ala Gln Ala Leu Gly Gly Val Gly Gly
          115         120         125
Gln Lys
          130

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<210> 32808

<211> 109

<212> PRT

<213> A.fumigatus

<400> 32808

```

Leu Pro Gln Ser Thr Met Leu Tyr Arg Asn Ser Val Ala Arg Ser Val
1           5           10           15
Leu Arg Ala Ile Ser Ser Ser Asn Ala Ser Val Ala Arg Ser Thr Leu
          20          25          30
Ser Asn Asn Val Phe Lys Ala His Leu Thr Ser Ser Ala Arg Phe Pro
          35          40          45
Ala Arg Ala Ser Ser Leu Ala Leu Thr Thr Arg Lys Pro Val Thr Thr
          50          55          60
Ala Leu Val Arg Tyr Ala Ser Ser Val Pro Gly Ser Thr Asn Val Pro
65          70          75          80
Lys Val Ser Ile Thr His Val Val Ser Ser Gly Arg Ser Leu Ile Phe
          85          90          95
Val Cys Arg Lys Pro Arg Leu Pro Arg Thr Met Thr
          100         105

```

<210> 32809

<211> 114

<212> PRT

<213> A.fumigatus

<400> 32809

```

Thr Leu Ala Phe Gly Asp Leu Gln Lys Val Ile Lys Asp Thr Phe Ser
1           5           10           15
Leu Glu Gly Thr Pro Lys Glu Ala Leu Tyr Leu Gly Met Ala Gly Val

```

12960

20 25 30
 Ile Pro Tyr Leu Ala Thr Ser Leu Glu Thr Val Tyr Leu Ser Tyr Glu
 35 40 45
 Ile Asn Arg Ala Thr Ala Thr Gly Asp Gly Leu Ile Phe Ser Gly Gln
 50 55 60
 Thr Ala Glu Leu Met Leu His Met Leu Glu Pro Ile Gln Val Gly Tyr
 65 70 75 80
 Gly Ala Val Val Ser Leu Asn Leu Ser Cys Cys Gln Ala Pro Cys Leu
 85 90 95
 Thr Arg Ser Asp Pro Pro Asp Pro Leu Leu Pro Trp Ser Tyr Ser Leu
 100 105 110
 Gly Ser

<210> 32810

<211> 148

<212> PRT

<213> A.fumigatus

<400> 32810

Arg Glu Ala Thr Leu Gln Ile Leu Ser Phe Leu Gly Ala Ile His Trp
 1 5 10 15
 Gly Leu Glu Trp Ala Gly Tyr Gly Gly Lys His Gly Tyr Lys Arg Tyr
 20 25 30
 Ala Ala Gly Val Ile Ala Pro Ala Val Ala Trp Pro Thr Leu Leu Leu
 35 40 45
 Pro Val Glu Tyr Ala Leu Ile Ser Gln Phe Leu Ala Phe Thr Phe Leu
 50 55 60
 Tyr Tyr Asn Asp Ala Arg Ala Ala Ala His Gly Arg Ala Pro His Trp
 65 70 75 80
 Tyr Gly Met Tyr Arg Phe Val Leu Thr Phe Val Val Gly Ala Ser Ile
 85 90 95
 Val Ala Ser Leu Ile Gly Arg Glu Gln Ile Ala Asn Thr Ile Ser Thr
 100 105 110
 Glu His Thr Ile Thr Asp Lys Ile Asn Ala Leu Leu Phe Leu Gln Lys
 115 120 125
 Lys Glu Lys Glu Glu Ala Asp Ala Arg Arg Arg Ala Glu Leu Gly Glu
 130 135 140
 Glu Glu Ser Glu
 145

<210> 32811

<211> 109

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (33), (41), (97)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32811

Cys Phe Gln Leu Leu Ala Tyr Ala Ile Asn Asn Met Asp Gly Val Ala
 1 5 10 15
 Gly Tyr Ser Gly Trp Arg Trp Ile Phe Ile Leu Glu Gly Leu Ala Thr
 20 25 30

12961

```

Xaa Val Val Ala Val Ile Ala Lys Xaa Ile Val Val Asp Trp Pro Glu
      35                      40                      45
Thr Ala Arg Phe Leu Asn Glu Asp Glu Arg Ala Leu Leu Leu Arg Arg
      50                      55                      60
Leu Ala Gln Asp Gln Gly Glu Ala Arg Met Asp Arg Leu Asp Lys Lys
65                      70                      75                      80
Ser Leu Arg Arg Ala Phe Ser Asp Pro Lys Ile Tyr Leu Gly Tyr Val
      85                      90                      95
Xaa Cys Pro Pro Ser Phe Asp Leu Arg Val Ile Gln Asn
      100                      105

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<210> 32812
 <211> 146
 <212> PRT
 <213> A.fumigatus

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<400> 32812
Val Val Met Val Arg Ser Val Leu Asp Pro Ala Asn Ile Leu Ile Ser
1                      5                      10                      15
Asp Lys Pro Ser Trp Gly Ala Thr Val Trp Ile Trp Thr Ser Glu Val
      20                      25                      30
Phe Ser Met Asn Val Arg Ala Gln Ala Val Gly Met Ala Ser Gln Thr
      35                      40                      45
Gln Asn Val Ala Asn Ala Ile Val Gln Gln Phe Phe Pro Ile Phe Leu
      50                      55                      60
Lys Asn Cys Gly Phe Tyr Ala Phe Tyr Met Phe Ala Gly Val Asn Phe
65                      70                      75                      80
Leu Leu Ala Leu Phe Val Trp Phe Phe Ile Pro Glu Thr Lys Gln Val
      85                      90                      95
Pro Leu Glu Glu Ile Asp Ala Leu Phe Gly Gly Ala Asn His Val Thr
      100                      105                      110
His Gly Glu Arg Met Met Ile Gly Glu Lys Glu Lys His Phe Glu Asp
      115                      120                      125
Gln Ala Asn Glu Lys Gly Asp Ala Val Thr Ile Glu Asn Leu Glu Ala
      130                      135                      140
Arg Arg
145

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<210> 32813
 <211> 205
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (105)
 <223> Identity of amino acid sequences at the above locations are unknown.

```

<400> 32813
Gly Tyr Ser Leu Ala Ala Ala Cys Leu Thr Pro Val Gly Thr Ser Thr
1                      5                      10                      15
Gly Thr Gly Thr Met Asp Glu Lys Asp Asp Cys Thr His Ala Thr Ile
      20                      25                      30
Glu Asp Ile Lys Ser Ala Ser Leu Leu Pro Asp Glu Leu Asp Arg Ala
      35                      40                      45
Ala Glu Arg Arg Leu Leu Trp Lys Cys Asp Leu His Val Val Pro Ile

```

50		55		60	
Leu Thr Val Leu Phe Met Phe Ala Phe Leu Asp Arg Ile Asn Ile Gly					
65		70		75	80
Asn Ala Arg Leu Met Gly Leu Glu Arg Asp Leu Arg Met Thr Gly His					
	85		90		95
Gln Tyr Asn Ile Ala Leu Phe Val Xaa Phe Val Pro Tyr Ile Leu Phe					
	100		105		110
Glu Val Pro Ser Asn Met Leu Leu Lys Lys Met Arg Pro Ser Trp Trp					
	115		120		125
Leu Ser Gly Ile Met Phe Ala Trp Gly Val Phe Ser Ser Ser Cys Ala					
	130		135		140
Val Ala Glu Val Val Ser Asp Ala Asp Ser Ala Thr Gly Ile Leu Thr					
145		150		155	160
Val Cys Gln Gly Val Thr Lys Ser Phe Gln Gly Leu Val Val Cys Arg					
	165		170		175
Val Leu Ile Gly Val Phe Glu Ala Gly Phe Met Pro Gly Thr Cys Phe					
	180		185		190
Phe Leu Ser Ala Phe Gln Ser Ser His Ala Asp Phe Ser					
	195		200		205

<210> 32814

<211> 244

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (18), (49), (63)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32814

Glu Val Thr Ala Thr Cys Leu Phe Arg Ser Gln Asp Leu Leu Gly Val		
1	5	10
Cys Xaa Met Ser Thr Val Phe Arg Ser Gln Ser Asp Thr Glu Leu Met		15
	20	25
Val Asn Phe Leu Arg Arg Pro Leu Met Tyr Phe Gly Ile Val Asn Thr		30
	35	40
Xaa Tyr Ala Val Ser Phe Phe Thr Pro Thr Ile Leu Asn Gln Xaa Gly		45
	50	55
Trp Thr Ala Val Arg Ala Gln Val Met Ser Ile Pro Ile Tyr Cys Val		60
65	70	75
Ala Thr Val Ile Ala Phe Ser Ala Ala Tyr Thr Ser Asp Arg Leu Arg		80
	85	90
His Arg Tyr Leu Phe Thr Leu Ala Gly Cys Leu Ile Ala Thr Met Gly		95
	100	105
Tyr Val Ile Leu Leu Cys Gln Ala Ser Val Pro Val Gly Ala Arg Tyr		110
	115	120
Phe Ala Val Phe Ala Ile Thr Gly Gly Gly Tyr Leu Thr Gln Pro Ile		125
	130	135
Leu Met Gly Trp Leu Ser Asn Asn Met Ala Gly His Tyr Lys Gln Ser		140
145	150	155
Ile Ala Ser Ala Met Gln Ile Gly Phe Gly Asn Cys Gly Gly Leu Val		160
	165	170
Ala Ser Asn Ile Phe Phe Lys Glu Glu Ala Pro Arg Tyr Thr Thr Gly		175
	180	185
Tyr Gly Val Ser Leu Gly Met Thr Trp Ile Cys Gly Ala Ala Cys Ala		190


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<210> 32815
<211> 86
<212> PRT
<213> A.fumigatus
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<400> 32815
Leu Glu Val Asp Gln Ala Ile Asp Leu Gly Ser Glu Pro Ser Glu Gly
1          5          10          15
Xaa Ala Thr Glu Asp Gly Ile His Ala Asp Val Asp Ser Ala Pro Pro
          20          25          30
Ala Ser Gln Ile Glu Glu His Leu Xaa Gly Gln Asp Thr Val Ser Ser
          35          40          45
Gln Ile Glu Glu Arg Ile Val Trp Pro Asn His Ala Ser Gly Asp Val
          50          55          60
Gly Asn Thr Val Ser Pro Asp Leu Gly Gln Ser Leu Leu Gly Leu Gly
65          70          75          80
Gln Ser Leu Gln Asp Gly
          85

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<220>
<221> UNSURE
<222> (185),(187),(191),(193)
<223> Identity of amino acid sequences at the above locations are unknown.
```

<400> 32816															
Val	Leu	Pro	Ser	Val	Ile	Ala	Lys	Gly	Pro	Glu	Ser	Ser	Glu	His	Ala
1				5					10					15	
Asn	His	Ser	Phe	Gly	Arg	Ile	Ile	Ile	Leu	Glu	Ala	Leu	Ala	Cys	Glu
			20					25					30		
Pro	Gly	Gly	Pro	Leu	Val	His	Ile	Trp	His	Glu	Val	Ala	Asp	Gln	Ser
		35				40						45			
Arg	Leu	Leu	Glu	Leu	Val	Pro	Ser	His	Gln	Ser	Asp	Val	Leu	Pro	Asp
	50					55					60				
Lys	Arg	Met	Ser	Arg	Lys	Val	Arg	Ile	Asp	Leu	Thr	Glu	Phe	Asp	Ala
65					70					75				80	
Glu	Pro	Ser	Asp	Leu	Asp	Leu	Ile	Val	Ser	Thr	Ser	Arg	Thr	Leu	Asn
				85					90					95	
Val	Ala	Arg	Arg	Ser	Val	Ser	Ala	Gln	Ile	Ser	Thr	Ala	Val	Gln	Ala

Gly 1	Tyr	Thr	Gln	Trp 5	Thr	Arg	Ala	Pro	Leu 10	Trp	Ile	Thr	Ala	Ser 15	Thr
Arg	Ser	Val	Arg	Ser	Phe	His	Asn	Ala 25	Ser	Asp	Lys	Pro	Asn 30	Arg	Gly
Phe	Pro	Arg	Ser	Pro	Gln	Thr	His	Cys 40	Ser	Leu	Leu	Val	His 45	Asp	Ser
Ser	Gln	Lys	Pro	Tyr	Ala	Leu	His	Val	Asp	Arg	Met	Arg	Ser	Arg	Ala
Cys 65	Ser	Ser	Leu	Leu	Pro	Arg	Thr	Ser	Ala	Thr	Thr	Leu	Ala	Ile	Gly 80
Asp	Leu	Arg	Val	Arg	Arg	Ser	Arg	Arg	Met	Cys	Ala	Pro	Arg	Asn 95	Pro
Val	Ala	Pro	Val	Arg	Asn	Thr	Val	Gly	Ser	Pro	Thr	Ser	Met	Ser	Ser
Ile	Arg	Ser	Gly	Lys	Asp	Leu	Gly	Arg	Val	Ser	Thr	Ser	Phe	Leu	Ala
Ser	Leu	Glu	Tyr	Ser	Ser	Ser	Ala	Ser	Leu	Glu	Val	Ala	Arg	Val	Ser
Ala 145	Val	Ala	Ser	Ala	Ser	Leu	Ala	Leu	Leu	Ala	Asn	Asp	Ser	Lys	Leu
Thr	Lys	Arg	Ser	Ile	Ser	Ala	Ala	Asn	Pro	Leu	Arg	Val	Xaa	Leu	Arg
Lys	Met	Ala	Phe	Met	Leu	Met	Ser	Ile	Pro	Arg	His	Leu	Arg	Leu	Arg
Ser	Lys	Asn	Ile	Cys	Xaa	Ala	Arg	Ile	Leu	Cys	Pro	Pro	Arg	Ser	Lys
Asn	Glu	Ser	Ser	Gly	Pro	Ile	Met	Arg	Ala	Val	Thr	Leu	Glu	Ile	Arg
Leu 225	Ala	Gln	Ile	Trp	Ala	Lys	Ala	Cys	Ser	Val	Ser	Asp	Arg	Val	Cys
Lys	Thr	Asp	Asp	Leu	Arg	Arg	Gly	Ala	Ala	Ala	Leu	Ser	Ser	Ala	Val

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<210> 32818
<211> 128
<212> PRT
<213> A.fumigatus
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<210> 32819
<211> 127
<212> PRT
<213> A.fumigatus
```

<400> 32819																
Pro	Asp	Gln	Trp	Leu	His	Ser	Arg	Leu	Lys	Arg	Leu	Thr	Asn	Ile	Pro	
1				5					10					15		
Ser	Leu	Ala	Thr	Asn	Thr	Asp	Asp	Phe	Leu	Ile	Arg	Met	Met	Lys	Gly	
			20					25					30			
Cys	Ile	Gln	Leu	Ser	Ala	Arg	Pro	Asn	Ile	His	Asn	Thr	Val	Asn	Met	
		35					40					45				
Val	Pro	Val	Asp	His	Val	Ala	Arg	Val	Val	Ile	Ala	Gly	Ala	Phe	Gln	
	50					55					60					
Pro	Pro	Cys	Thr	Pro	Ile	Gly	Val	Ala	Gln	Val	Thr	Gly	His	Pro	Arg	
65					70					75					80	
Leu	Arg	Phe	Asn	Gln	Phe	Leu	Gly	Ala	Leu	Gln	Thr	Tyr	Gly	Tyr	Asp	
			85						90					95		
Val	Pro	Gln	Val	Asp	Tyr	Val	Pro	Trp	Lys	Met	Ser	Leu	Glu	His	Tyr	
			100					105					110			
Val	Asn	Asp	Gly	Lys	His	Asp	Asp	Pro	Glu	Ser	Gln	His	Ala	Leu		

115

120

125

<210> 32820

<211> 567

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (248), (272)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32820

Thr	Thr	Lys	Lys	Phe	Leu	Thr	Asn	Trp	Phe	Val	Asp	Pro	Gln	Lys	Trp
1			5					10					15		
Val	Glu	Lys	Asp	Lys	Ala	Glu	Ser	Gln	Gly	Gly	Asn	Glu	Pro	Trp	Arg
		20					25				30				
Gln	Phe	Tyr	Val	Gly	Pro	Arg	Asp	Arg	Leu	Tyr	Arg	Ser	Gly	Tyr	Leu
		35				40					45				
Gly	Arg	Tyr	Thr	Pro	Ser	Gly	Asp	Val	Glu	Cys	Ser	Gly	Arg	Ala	Asp
	50					55					60				
Asp	Gln	Val	Lys	Ile	Arg	Gly	Phe	Arg	Ile	Glu	Leu	Gly	Glu	Ile	Asp
65				70					75					80	
Thr	His	Leu	Ser	Arg	His	Pro	Leu	Val	Arg	Glu	Asn	Val	Thr	Leu	Val
			85					90					95		
Arg	Arg	Asp	Lys	Phe	Glu	Glu	Pro	Thr	Leu	Val	Ser	Tyr	Phe	Val	Pro
		100					105					110			
Asp	Met	Asn	Lys	Trp	Pro	Ala	Trp	Leu	Ala	Ser	Lys	Gly	Leu	Lys	Asp
	115					120					125				
Asp	Asp	Ser	Ala	Glu	Gly	Met	Val	Gly	Met	Leu	Arg	Arg	Phe	Arg	Pro
130					135					140					
Leu	Arg	Asp	Asp	Ala	Arg	Glu	His	Leu	Arg	Ser	Lys	Leu	Pro	Ala	Tyr
145				150					155					160	
Ala	Val	Pro	Thr	Val	Phe	Ile	Pro	Leu	Lys	Arg	Met	Pro	Leu	Asn	Pro
			165					170					175		
Asn	Gly	Lys	Ile	Asp	Lys	Pro	Ala	Leu	Pro	Phe	Pro	Asp	Thr	Ala	Glu
		180					185					190			
Leu	Ser	Ala	Ala	Ala	Pro	Arg	Arg	Arg	Ser	Ser	Val	Leu	Gln	Thr	Leu
	195					200					205				
Ser	Glu	Thr	Glu	Gln	Ala	Leu	Ala	Gln	Ile	Trp	Ala	Asn	Arg	Ile	Ser
210					215					220					
Asn	Val	Thr	Ala	Arg	Met	Ile	Gly	Pro	Asp	Asp	Ser	Phe	Phe	Asp	Leu
225				230					235					240	
Gly	Gly	His	Ser	Ile	Leu	Ala	Xaa	Gln	Met	Phe	Phe	Asp	Leu	Arg	Arg
			245					250				255			
Arg	Trp	Arg	Gly	Ile	Asp	Ile	Ser	Met	Asn	Ala	Ile	Phe	Arg	Ser	Xaa
	260						265					270			
Thr	Leu	Arg	Gly	Phe	Ala	Ala	Glu	Ile	Asp	Arg	Leu	Val	Asn	Phe	Glu
	275					280						285			
Ser	Phe	Ala	Ser	Asn	Ala	Asn	Glu	Ala	Asp	Ala	Thr	Ala	Asp	Thr	Leu
	290					295				300					
Ala	Thr	Ser	Asn	Glu	Ala	Asp	Asp	Glu	Tyr	Ser	Lys	Asp	Ala	Arg	Lys
305				310					315					320	
Leu	Val	Glu	Thr	Leu	Pro	Arg	Ser	Phe	Pro	Glu	Arg	Ile	Glu	Asp	Met
			325					330				335			
Leu	Val	Gly	Glu	Pro	Thr	Val	Phe	Leu	Thr	Gly	Ala	Thr	Gly	Phe	Leu

340 345 350
 Gly Ala His Ile Leu Arg Asp Leu Leu Thr Arg Lys Ser Pro Met Ala
 355 360 365
 Arg Val Val Ala Leu Val Arg Gly Lys Ser Asp Glu Gln Ala Leu Asp
 370 375 380
 Arg Ile Arg Ser Thr Cys Arg Ala Tyr Gly Phe Trp Asp Glu Ser Trp
 385 390 395 400
 Thr Ser Arg Leu Gln Cys Val Cys Gly Asp Leu Gly Asn Pro Arg Phe
 405 410 415
 Gly Leu Ser Glu Ala Leu Trp Asn Asp Leu Thr Glu Arg Val Asp Ala
 420 425 430
 Val Ile His Asn Gly Ala Leu Val His Trp Val Tyr Pro Tyr Ser Thr
 435 440 445
 Leu Lys Pro Ala Asn Val Leu Gly Thr Ile Asp Ala Leu Lys Leu Cys
 450 455 460
 Ala Ser Gly Lys Pro Lys Gln Phe Ser Phe Val Ser Ser Thr Ser Val
 465 470 475 480
 Leu Asp Asn Asp His Tyr Val Leu Glu Ser Glu Arg Ile Ile Ala Ala
 485 490 495
 Gly Gly Ala Gly Ile Ser Glu Asp Asp Asp Leu Glu Gly Ser Ser Val
 500 505 510
 Gly Leu Gly Thr Gly Tyr Gly Gln Ser Lys Trp Ala Gly Glu Tyr Leu
 515 520 525
 Val Arg Glu Ala Gly Arg Arg Gly Leu Lys Gly Thr Ile Val Arg Pro
 530 535 540
 Gly Tyr Val Leu Gly Asp Ser Lys Thr Gly Ser Lys His His Asn Leu
 545 550 555 560
 Thr Ser Gly Cys Thr Arg Asp
 565

<210> 32821

<211> 611

<212> PRT

<213> A.fumigatus

<400> 32821

Pro His Ala Leu Ser Phe Arg Pro Val Val Lys Thr Ser Arg Ser Gly
 1 5 10 15
 Thr Ser Ser Val Asp Ser Gly Thr Thr Arg Lys Arg Gln Ser Ser Val
 20 25 30
 Arg Gly Trp Gln Asp Tyr Ile Phe Gly Ser Gly Thr Ala Ser Arg Lys
 35 40 45
 Thr Ser Arg Ala Ser Ser Ile Met Asp Asp Val Gly Glu Val Glu Glu
 50 55 60
 Gly Ala His Asn Pro Arg Ala Ser Asn Asn Asn Arg Arg Lys Ala Leu
 65 70 75 80
 Asp Glu Gln Leu Phe Gln Pro Pro Ser Glu Arg Ser Gly Gly Gly Ile
 85 90 95
 Ala Ala Lys His Ala Val Ser Gly Leu Val Ser Gly Asp Asp Ala Ser
 100 105 110
 Thr His Ser Arg Lys Ser Ser Lys Ser Ile Thr Ser Trp Thr Val Arg
 115 120 125
 Leu Phe Ala Gly Gly Ser His Asn Ser Arg Asp Glu Asn Asp Ala Gly
 130 135 140
 Ser Val Arg Ser Arg Thr Ser Ser Ile His Gln Asp Lys Thr Arg Gly
 145 150 155 160

Ser Ser Ser Thr Ser Thr Asn Pro Lys Thr Ala Leu Ser Ala Val Ala
 165 170 175
 Ala Leu Lys Arg Ile Asn Ser Asn Thr Ser Ile His Ser Ala Pro Gly
 180 185 190
 Arg Ser Thr Asn Gly Ser Thr Gly Pro Gly Arg Thr Ala Ala Pro Ser
 195 200 205
 Gly Arg Arg His Ala Ala Ser Ser Val Ser Gln Val Ala Ser Ser Glu
 210 215 220
 Ala Gly Asp Lys Ser Ser Thr Asn Leu Gly Pro Val Glu Met Asp Ala
 225 230 235 240
 Ile Leu Pro Met Glu Ser Arg Pro Pro Thr Leu Ser His Met Tyr Asn
 245 250 255
 Asn Tyr Gln Pro Gly Glu Leu Leu Thr Asp Arg Phe Gly Phe Ile Tyr
 260 265 270
 Asp Gln Arg Arg Lys Lys Arg Gln Arg Glu Ala Ala Met Ser Lys Asn
 275 280 285
 Asn Ser Lys Arg Leu Ser Ile Ala Glu Thr Leu Ser Ser Phe Arg Thr
 290 295 300
 Glu Thr Ser Asp Gly Asp Glu Asp Ala Val Gln Gly Ile Ala Glu Pro
 305 310 315 320
 Gln Arg Ser Pro Phe Ser Val Ser Pro Glu Asp Pro Glu Ala Gly Ala
 325 330 335
 Val Ala Ile Arg Lys Trp Gln Asp Tyr Leu Lys Phe Pro Thr Arg Pro
 340 345 350
 Thr Glu Leu Leu Ser His Thr Pro Ser Ala Gly Pro Ile Val Ser Leu
 355 360 365
 Thr Thr Thr Ser Glu Pro Pro Pro Arg Ser Thr Ala Val Ala Val Asp
 370 375 380
 Arg His Gly Ser Leu Ser Val Asn Pro Asn Ala Pro Pro Ser Ala Ser
 385 390 395 400
 Thr Ser Thr Val Val Ala Asp Arg Pro Glu Phe Ala Gly Thr Ser Ala
 405 410 415
 Asp Glu Pro Thr Thr Ala Ala Thr Gln Ser Ala Ser Thr Glu Asn Glu
 420 425 430
 Pro Val Lys Leu Leu Leu Glu Gln Leu Thr Glu Leu His Asp Ala Leu
 435 440 445
 Gln Arg Asp Arg Thr Val Arg Trp Asn Glu Phe Met Arg Lys Val Arg
 450 455 460
 Ala Glu Arg Arg Lys Glu Gly Glu Ala Ala Ala Ala Ala Ala Ala
 465 470 475 480
 Ala Ile Ser Thr Arg Ala Ala Gln Ser Val Asp Thr Pro Glu Ala Ser
 485 490 495
 Leu Ala Val Gly Glu Val Val Gly Ile Ala Asn Leu Gly Asn Lys Gly
 500 505 510
 Lys Val Gly Arg Ala Lys Trp Arg Glu Phe Arg Ser Leu Val Leu Gly
 515 520 525
 Gly Ile Pro Val Ala Leu Arg Ala Lys Ile Trp Ser Glu Cys Ser Gly
 530 535 540
 Ala Ser Ser Met Arg Val Pro Gly Tyr Tyr Asp Asp Leu Val Ala Gly
 545 550 555 560
 Ile Gly Gly Ser Glu Pro Asp Pro Ser Val Val Ala Gln Ile Asp Met
 565 570 575
 Asp Ile Asn Arg Thr Leu Thr Asp Asn Val Phe Phe Arg Lys Gly Pro
 580 585 590
 Gly Val Ser Lys Leu Arg Glu Val Leu Leu Ala Tyr Ser Arg Arg Asn
 595 600 605

Pro Glu Val
610

<210> 32822
<211> 62
<212> PRT
<213> A.fumigatus

<400> 32822
Lys His Pro Pro Pro Ala Leu Leu Thr Ile Thr Asp Tyr Leu Leu His
1 5 10 15
Asn Pro Ile Gly Ser Cys Tyr Glu Ser Phe Ile Ser Glu Val Pro Pro
20 25 30
Lys Leu Thr Ala His Leu Glu Ser Val Gly Arg Pro Thr Pro Asn Pro
35 40 45
Glu Leu Pro Trp Val Pro Pro Arg Leu Ser Arg Met Ala Cys
50 55 60

<210> 32823
<211> 194
<212> PRT
<213> A.fumigatus

<400> 32823
Pro Gly Thr Arg Met Glu Asp Ala Pro Leu His Ser Asp Gln Ile Phe
1 5 10 15
Ala Arg Arg Ala Thr Gly Ile Pro Pro Arg Thr Ser Asp Arg Asn Ser
20 25 30
Arg His Leu Ala Arg Pro Thr Leu Pro Leu Phe Pro Arg Leu Ala Ile
35 40 45
Pro Thr Thr Ser Pro Thr Ala Arg Asp Ala Ser Gly Val Ser Thr Asp
50 55 60
Cys Ala Ala Leu Val Asp Ile Ala Ala Ala Ala Ala Ala Ala Ala
65 70 75 80
Ser Pro Ser Phe Leu Arg Ser Ala Arg Thr Leu Arg Met Asn Ser Phe
85 90 95
His Leu Thr Val Leu Ser Arg Trp Arg Ala Ser Trp Ser Ser Val Asn
100 105 110
Cys Ser Arg Ser Asn Leu Thr Gly Ser Phe Ser Val Asp Ala Leu Cys
115 120 125
Val Ala Ala Val Val Gly Ser Ser Ala Asp Val Pro Ala Asn Ser Gly
130 135 140
Arg Ser Ala Thr Thr Val Asp Val Asp Ala Asp Gly Gly Ala Phe Gly
145 150 155 160
Leu Thr Glu Ser Glu Pro Cys Arg Ser Thr Ala Thr Ala Val Leu Arg
165 170 175
Gly Gly Gly Ser Leu Val Val Val Ser Asp Thr Ile Gly Pro Ala Asp
180 185 190
Gly Val

<210> 32824
<211> 286
<212> PRT
<213> A.fumigatus

<400> 32824

Gln Asp Gln Leu Ile His Asn Pro Pro Tyr Ala Asp Trp Gln Cys Cys
 1 5 10 15
 Leu Asn Ala Gly Ser Thr Tyr Gly Trp Asp Thr Val Leu Arg Met Leu
 20 25 30
 Cys Thr Arg Gly Asp Tyr Ile Leu Met Glu Glu Tyr Thr Phe Ser Ser
 35 40 45
 Ala Lys Glu Thr Ala Leu Pro Leu Gly Val Lys Val Ala Ser Val Lys
 50 55 60
 Met Asp Ala Glu Gly Leu Leu Pro Glu Ser Leu Asp Glu Val Leu Ser
 65 70 75 80
 Asn Trp Asp Glu Ala Ser Arg Gly Ser Arg Lys Pro Phe Val Leu Tyr
 85 90 95
 Thr Ile Pro Thr Gly Gln Asn Pro Thr Gly Ala Thr Gln Gln Leu Glu
 100 105 110
 Arg Arg Lys Ala Val Tyr Lys Val Ala Gln Lys His Asp Leu Ile Ile
 115 120 125
 Val Glu Asp Glu Pro Tyr Tyr Phe Leu Gln Met Gln Pro Tyr Thr Gly
 130 135 140
 Pro Asp Arg Glu Pro Val Pro Pro Pro Ala Ser His Asp Glu Phe Ile
 145 150 155 160
 Lys Ser Leu Ile Pro Ser Tyr Leu Ser Leu Asp Val Asp Gly Arg Val
 165 170 175
 Leu Arg Leu Glu Ser Phe Ser Glu Val Leu Ser Pro Gly Ser Arg Thr
 180 185 190
 Gly Trp Ile Val Gly Pro Glu Gln Leu Val Glu Arg Phe Met Arg Asn
 195 200 205
 Cys Glu Thr Gly Ala Gln His Pro Ser Gly Ile Ser Gln Ile Val Leu
 210 215 220
 Phe Lys Leu Leu Asp Glu His Trp Gly His Ser Gly Tyr Leu Asp Trp
 225 230 235 240
 Leu Ile Asn Leu Arg Met Gln Tyr Thr Gly Arg Arg Asp Ala Ile Val
 245 250 255
 Asn Ala Cys Glu Lys Tyr Leu Pro Lys Glu Ile Ala Lys Trp Asn Pro
 260 265 270
 Pro Ala Ala Gly Met Phe Val Ser Ile Ser Pro Pro Thr Ile
 275 280 285

<210> 32825

<211> 205

<212> PRT

<213> A.fumigatus

<400> 32825

Phe Leu Pro Tyr Gly Ser Asn Pro Glu Ile Phe Pro Gln Lys Lys Pro
 1 5 10 15
 Cys Gly Pro Met Glu Ala Val Pro Leu Pro Pro Ile Glu Pro Thr Gln
 20 25 30
 Ile Asn Pro Thr Tyr Pro Asn Ser Trp Ile Asn Cys Gly Gly Gly Gly
 35 40 45
 Met Gly Trp Ser Gly Gly Gly Ala Trp Glu Ser Ser Trp Leu Arg Thr
 50 55 60
 Ile Ser Thr Gly Glu Lys Asn Lys Gly Lys Phe Val Cys Gln Val Val
 65 70 75 80
 Gly Asp Gly Thr Ile Leu Phe Ser Val Pro Gly Ser Val Tyr Trp Ile
 85 90 95

12971

Ala	Arg	Arg	Tyr	Asn	Ile	Pro	Val	Leu	Thr	Ile	Val	Leu	Asp	Asp	Arg
			100					105					110		
Gly	Trp	Asn	Ala	Pro	Arg	Arg	Ser	Met	Leu	Val	Val	His	Pro	Asn	Gly
		115					120					125			
Asp	Gly	Ser	Arg	Ala	Thr	Asn	Glu	Asp	Leu	Asn	Ile	Ser	Phe	Ala	Pro
		130				135					140				
Thr	Pro	Asp	Tyr	Ser	Gly	Ile	Ala	Lys	Ala	Ala	Ala	Gly	Gly	Glu	Leu
145					150				155						160
Trp	Ala	Gly	Arg	Val	Ala	Thr	Val	Ala	Glu	Leu	Gly	Lys	Leu	Leu	Pro
			165					170						175	
Glu	Ala	Ile	Gln	Ser	Val	Leu	Asn	Gly	Thr	Ala	Ala	Val	Leu	Glu	Ala
		180					185						190		
Gln	Leu	Asp	Gly	Thr	Thr	Gly	Lys	Tyr	Val	Glu	Lys	Lys			
		195					200					205			

<210> 32826

<211> 97

<212> PRT

<213> A.fumigatus

<400> 32826

Gln	Ser	Thr	Leu	Lys	Gly	Ala	Ala	Arg	Tyr	Leu	Lys	Thr	Pro	Gly	Ile
1				5					10					15	
Pro	Ser	Arg	Gln	Ser	Leu	His	Asn	Arg	Asp	Ile	Gly	Pro	His	Glu	Met
			20					25					30		
Leu	Ile	Leu	Thr	Thr	Val	Gly	Leu	Ile	Ser	Leu	Gly	Gly	Gly	Leu	Pro
		35				40					45				
Ser	Pro	Glu	Tyr	Phe	Pro	Phe	Glu	Glu	Ile	Ser	Val	Lys	Val	Pro	Thr
	50					55				60					
Pro	Pro	Gly	Phe	Ser	Pro	Pro	Glu	Thr	Gln	Glu	Ser	Gly	Ala	Val	Leu
65					70				75						80
Thr	Ala	Lys	Lys	Gly	Asp	Val	Gln	Ala	Ala	Arg	Ser	Leu	Tyr	Gly	Thr
				85				90						95	

Tyr

<210> 32827

<211> 370

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (370)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32827

Leu	Ile	Tyr	Phe	Asn	Leu	Ala	Ala	Arg	Tyr	Pro	Lys	Ile	Thr	Asn	Asp
1				5					10					15	
Lys	Leu	Thr	Phe	Val	Ala	Gln	Met	Ser	Arg	Thr	Leu	Thr	Asn	Val	Ile
		20					25					30			
Arg	Leu	Asp	Ser	Phe	Pro	Thr	Phe	Cys	Ala	Leu	Leu	Val	Ala	Gly	Ser
		35				40						45			
Thr	Val	Leu	Pro	Val	Leu	Leu	Leu	Arg	Leu	Cys	Ala	Leu	Val	Ser	Ser
	50				55				60						
Arg	Ile	Gly	Lys	Ile	Ser	Gly	Pro	Val	Lys	Ser	Arg	Val	Phe	Leu	Arg

12972

65				70				75				80			
Phe	Val	Arg	Phe	Val	Ala	Ala	Phe	Val	Ser	Ala	Trp	Phe	Ser	Phe	Gln
				85				90						95	
Leu	Leu	Asn	Lys	Lys	Pro	Ile	Arg	Gln	Gln	Gly	Ser	Asp	Val	Ile	Ser
			100					105					110		
Ser	His	Lys	Thr	Gly	Ser	Gly	Ala	Asn	Ala	Gly	His	Ser	Pro	Glu	Lys
		115					120					125			
Lys	Ile	Thr	Pro	Gln	Tyr	Ser	Pro	Asp	Leu	Ala	Gly	Arg	Thr	Met	Asp
		130					135				140				
Leu	Thr	Leu	Phe	Thr	Phe	Thr	Arg	Ala	Met	Asp	Ala	Leu	Val	Cys	Leu
145					150					155					160
Gly	Trp	Ser	Arg	Trp	Arg	Ala	Ser	Arg	Arg	Gly	Gln	Asn	Arg	Trp	Ser
			165					170						175	
Leu	Val	Glu	Thr	Val	Ala	Pro	Val	Leu	Ala	Asp	Thr	Gly	Leu	Phe	Ala
		180						185					190		
Ala	Ser	Ser	Ala	Val	Val	Met	Trp	Ala	Trp	Phe	Tyr	Leu	Pro	Glu	Arg
		195					200					205			
Leu	Pro	Arg	Ser	Tyr	Gly	Lys	Trp	Ile	Gly	Glu	Val	Ala	Lys	Val	Asp
	210					215					220				
Ile	Arg	Leu	Ile	Glu	Ala	Leu	Arg	Arg	Ala	Arg	Arg	Gly	Ile	Phe	Val
225					230					235					240
Tyr	Gly	Lys	Glu	Thr	Gly	Gln	Ala	Arg	Leu	Leu	Glu	Ser	Met	Cys	Glu
			245					250						255	
Asp	Tyr	Asn	Trp	Pro	Arg	Glu	Trp	Gly	Asp	Pro	Ser	Lys	Thr	Ile	Pro
		260						265					270		
Ile	Pro	Cys	Glu	Met	Val	His	Met	Gly	Cys	Gly	Pro	Asn	Cys	Glu	Lys
		275					280						285		
His	Ala	Val	Trp	Arg	Phe	Ala	Lys	Thr	Phe	Lys	Phe	Ala	Cys	Ala	Thr
	290					295					300				
Tyr	Ile	Pro	Leu	Gln	Val	Phe	Arg	Val	Arg	Ser	Met	Lys	Thr	Met	
305					310				315					320	
Ser	Ser	Leu	Trp	Arg	Ala	Leu	Ala	Asp	Ala	Leu	Arg	Ser	Ser	Thr	Phe
			325					330						335	
Leu	Ala	Ser	Phe	Val	Ser	Ile	Phe	Tyr	Tyr	Ser	Val	Cys	Leu	Ala	Arg
		340					345					350			
Thr	Arg	Ile	Gly	Pro	Lys	Ile	Phe	Ser	Arg	Glu	Thr	Val	Thr	Pro	Gln
		355					360					365			
Met	Xaa														
	370														

<210> 32828

<211> 83

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (9)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32828

Ser	Asn	Leu	Lys	Ser	Arg	Asn	Val	Xaa	His	Leu	His	Ala	Pro	Val	Asn
1			5					10					15		
Gly	Trp	Leu	Gly	Thr	Tyr	Ser	Pro	Gly	Ser	Gln	Pro	Pro	Leu	Thr	Gly
		20						25				30			
Arg	Lys	Lys	Ser	Ala	Pro	Gln	Phe	Ser	Glu	Trp	Lys	Ile	Asn	Gln	Phe

12973

	35					40					45								
Gly	Thr	Ile	Lys	Phe	Asn	Phe	Pro	Glu	Gln	Ala	Phe	Arg	Lys	Pro	Pro				
	50					55					60								
Asn	Phe	Pro	Pro	Ala	Val	Leu	Leu	Cys	Ser	Gly	Pro	Lys	Asn	Pro	Pro				
65					70					75					80				
Leu	Arg	Gly																	

<210> 32829

<211> 398

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (381)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32829

Arg	Val	Ser	Pro	Thr	Ala	Ala	Gly	Ile	Asn	Ala	Ile	Val	Gly	Pro	Tyr				
1				5					10					15					
Ile	Gly	Pro	Ser	Asp	Ala	Leu	Leu	Thr	Tyr	Leu	Pro	Gln	Ala	His	Ile				
			20					25					30						
Leu	Glu	Phe	Met	Phe	Glu	Asn	Leu	Cys	Leu	Phe	Trp	Gly	Gly	Thr	Met				
		35				40					45								
Gly	Tyr	Gly	Asn	Pro	Arg	Thr	Leu	Ser	Asp	Thr	Ser	Met	Arg	Asn	Ser				
	50					55					60								
Lys	Gly	Asp	Ile	Arg	Glu	Phe	Lys	Pro	Thr	Ile	Leu	Val	Gly	Val	Pro				
65					70					75					80				
Ala	Val	Trp	Glu	Ser	Val	Lys	Lys	Gly	Val	Leu	Asn	Asn	Leu	Asn	Lys				
				85					90					95					
Ala	Ser	Phe	Leu	Leu	Arg	Gly	Leu	Phe	Trp	Gly	Ala	Met	Thr	Ala	Lys				
			100					105						110					
Asn	Phe	Leu	Leu	Thr	Asn	Gly	Phe	Ser	Gly	Ala	Ser	Thr	Ser	Ala	Ser				
		115				120							125						
Ile	Leu	Asp	Ala	Val	Val	Phe	Arg	Gln	Leu	Met	Glu	Ala	Thr	Gly	Gly				
	130					135					140								
Arg	Leu	Arg	Ile	Val	Leu	Asn	Gly	Gly	Gly	Pro	Val	Ser	Lys	Glu	Thr				
					150					155					160				
His	Lys	Phe	Leu	Ser	Met	Ala	Ile	Ala	Pro	Met	Ile	Ser	Gly	Tyr	Gly				
				165					170					175					
Leu	Thr	Glu	Thr	Ser	Ala	Met	Gly	Ala	Leu	Asn	Asp	Pro	Met	Ala	Trp				
			180					185					190						
Asn	Pro	Asp	Ala	Leu	Gly	Glu	Ile	Pro	Gly	Cys	Ile	Glu	Ile	Lys	Leu				
		195				200						205							
Val	Asp	Phe	Pro	Asp	Ala	Gly	Tyr	Phe	Thr	Lys	Asn	Asp	Pro	Pro	Gln				
	210					215						220							
Gly	Glu	Ile	Leu	Ile	Arg	Gly	Gly	Ser	Val	Thr	Ser	Tyr	Tyr	Trp	Asp				
	225				230					235					240				
Asn	Glu	Glu	Glu	Thr	Lys	Ala	Ala	Phe	Thr	Glu	Asp	Gly	Trp	Phe	Arg				
				245					250					255					
Thr	Gly	Asp	Ile	Gly	Glu	Phe	Asp	Lys	Asn	Gly	His	Leu	Lys	Ile	Ile				
		260					265					270							
Asp	Arg	Lys	Lys	Asn	Leu	Val	Lys	Thr	Leu	Asn	Gly	Glu	Tyr	Ile	Ala				
		275					280					285							
Leu	Glu	Lys	Leu	Glu	Ser	Val	Tyr	Arg	Ser	Ser	Pro	Val	Val	Gly	Asn				

12974

290		295		300
Ile Cys Val Tyr Ala	Ala Glu Asp Gln Asp Lys Pro Val Ala Ile Ile			
305	310	315	320	
Val Pro Val Glu Val Ala Leu Lys Lys Ile Ala Ser Glu Asn Gly Ile				
	325	330	335	
Glu Gly Asp Ser Val Glu Ser Leu Val His Asn Glu Lys Leu Lys Ser				
	340	345	350	
Ile Val Leu Lys Gln Leu Gln Ser Ala Gly Lys Ala Gly Gly Leu Arg				
	355	360	365	
Gly Ile Glu Val Ile Asn Gly Val Val Leu Ser Asp Xaa Asp Gly His				
	370	375	380	
Ser Glu Cys Ser Leu Thr Thr Leu Leu Phe Gln Thr Thr Ser				
385	390	395		

<210> 32830

<211> 207

<212> PRT

<213> A.fumigatus

<400> 32830

Asp Tyr Ser Ser Asn Ile Ser Cys Glu Val Ala Val Ile Val Val Ile				
1	5	10	15	
Val Ile Ala Val Asp Arg Phe Gly Arg Ser Asn Arg Ser Tyr Gln Tyr				
	20	25	30	
Leu Phe Leu Phe His Thr Ala Pro Arg Ile Phe Val Ile Ala Val Gln				
	35	40	45	
Asp Val Glu Ala Arg His Pro Pro Pro Thr His Gly Cys Pro Arg Ser				
	50	55	60	
Leu Pro Phe Thr Val Glu Ala Ser Gly Tyr Glu Pro Val Pro Gly Glu				
	65	70	75	80
Thr Ile Pro Arg Arg Leu Pro Gln Ala Lys Asp Asn Leu Ile Leu Arg				
	85	90	95	
Pro Ala Glu Asp Val Ala Thr Thr Tyr Asp Val Phe Arg Arg Ser Ala				
	100	105	110	
Arg Val Phe Gly Asn Ala Lys Ala Val Gly Thr Cys Arg Leu Ile Lys				
	115	120	125	
Thr His Val Glu Asn Lys Lys Val Lys Lys Ile Val Asp Gly Val Glu				
	130	135	140	
Gln Glu Val Glu Lys Lys Trp Thr Tyr Phe Glu Met Ser Gly Tyr Thr				
	145	150	155	160
Tyr Lys Ser Phe Val Glu Tyr Glu Arg Leu Ala Leu Glu Leu Gly Cys				
	165	170	175	
Gly Leu Arg Lys Leu Gly Leu Glu Lys Asp Asn Lys Ile His Leu Tyr				
	180	185	190	
Gly Ala Thr Arg Trp Ala Leu Pro Ala Val Phe Ile Thr Glu Glu				
	195	200	205	

<210> 32831

<211> 187

<212> PRT

<213> A.fumigatus

<400> 32831

Ile Gln Thr Gly Ala Ala Ser Gln Ser Met Thr Ile Val Thr Ala Tyr				
1	5	10	15	
Asp Thr Leu Gly Glu Glu Gly Leu Lys His Ser Leu Val Gln Thr Ser				

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<210> 32832
<211> 282
<212> PRT
<213> A.fumigatus
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Leu	Ala	Val	Leu	Ser	Glu	Cys	Arg	Tyr	Cys	Asp	Trp	His	Asp	Val	His
1				5					10					15	
Asp	Phe	Ala	Ala	Val	Asp	Arg	Arg	Asp	Val	Ser	Ala	Gly	Thr	Ser	Arg
			20					25					30		
Val	Leu	Pro	Leu	Leu	Leu	Gln	Tyr	Glu	Tyr	Cys	Leu	Trp	Thr	Val	Arg
		35					40					45			
His	Val	Ser	Ala	Phe	Cys	Arg	Pro	Val	Tyr	Thr	Arg	Ala	Asn	Ser	Arg
	50					55					60				
Thr	Val	Pro	Pro	Trp	Leu	Glu	Glu	Ala	Ala	Thr	Trp	Met	Ala	Asn	Gly
65				70						75					80
Glu	Ser	Leu	His	Asp	Thr	Arg	Lys	Val	Thr	Val	His	Ile	Val	Thr	Ala
				85				90						95	
Thr	Thr	Gly	Asn	Gly	Gly	Ser	Pro	Leu	Gly	Cys	Ile	Ser	Phe	Gln	
			100					105					110		
Val	Lys	Pro	His	Pro	Thr	Pro	Thr	Val	Arg	Asn	Thr	Ala	His	Ile	Thr
		115					120					125			
Ala	Ile	Leu	Thr	Phe	Gly	Trp	Leu	Phe	Phe	Pro	Glu	Ser	Pro	Tyr	Trp
	130					135					140				
Leu	Val	Arg	Gln	Gly	Lys	Thr	Thr	Gln	Ala	Gln	Asn	Ala	Leu	Arg	Arg
145					150					155					160
Val	Tyr	Gly	Phe	Lys	Asn	Asp	Ala	Phe	Tyr	Asn	Val	Glu	Val	Arg	Arg
				165				170						175	
Met	Ala	Thr	Glu	Asn	Asn	Gln	Ala	Leu	Ala	Leu	Gln	Arg	Ser	Leu	Thr
			180					185					190		
Gln	Ser	Thr	Arg	Arg	Thr	Phe	Leu	Gly	Leu	Asp	Leu	Ser	Ala	Glu	Ala
	195						200					205			
Glu	Cys	Phe	Asn	Arg	Met	Asn	Arg	Lys	Arg	Thr	Leu	Thr	Ala	Ile	Phe
	210					215					220				

12976

Ala Ala Ser Gly Gln Gln Met Ile Gly Ala Thr Phe Val Ile Gly Tyr
 225 230 235 240
 Ala Thr Tyr Phe Leu Asp Leu Ile Gly Val Lys Asp Tyr Phe Asp Ala
 245 250 255
 Ser Ile Val Leu Tyr Val Val Met Leu Leu Ala Ser Met Ala Ala Phe
 260 265 270
 Pro Leu Thr Glu Ile Met Gly Arg Arg Thr
 275 280

<210> 32833
 <211> 127
 <212> PRT
 <213> A.fumigatus

<400> 32833
 Arg Glu Gly Leu Leu Ile Gly Leu Trp Val Ser Ser Gly Val Ile Met
 1 5 10 15
 Gln Gly Phe Asp Ile Val Ala Gly Gly Gln Leu Ala Ala Leu Pro Glu
 20 25 30
 Phe Gln Lys Gln Phe Gly Arg Leu Gln Pro Asp Gly Ser His Ile Ile
 35 40 45
 Pro Ala His Tyr Leu Ser Ala Trp Asn Ser Ile Ala Pro Ala Cys Glu
 50 55 60
 Ile Ala Ser Thr Phe Ile Tyr Ala Pro Leu Leu Glu Lys Tyr Gly Arg
 65 70 75 80
 Lys Pro Gly Ile Leu Val Ala Ser Ala Ile Ser Val Ala Gly Val Leu
 85 90 95
 Leu Gln Gln Leu Ala Thr Asp Trp Arg Val His Leu Ala Gly Arg Gly
 100 105 110
 Val Asn Gly Trp Phe Val Ser Val Phe Leu Thr Cys Ser Thr Glu
 115 120 125

<210> 32834
 <211> 86
 <212> PRT
 <213> A.fumigatus

<400> 32834
 Cys Arg Met Tyr Ile Phe Ala Arg Thr Phe Leu Phe Leu Ser Arg Ala
 1 5 10 15
 Cys Leu Arg Leu Val Val Gln His Pro Leu Asn Ala Glu Ala Ser Ala
 20 25 30
 Leu Tyr Leu Ile Ala Lys Gly Lys Trp Thr Arg Asn Glu Thr Thr Leu
 35 40 45
 Arg Val Ala Leu Pro Cys Ser Thr Phe Ser Ala Leu Ser Gly Ala Ser
 50 55 60
 Asn Ala His Gln Pro Trp Ser Pro Ser Leu Pro Ser Ser Val Pro Arg
 65 70 75 80
 Ala Pro Ala Asn Pro Arg
 85

<210> 32835
 <211> 109
 <212> PRT
 <213> A.fumigatus

<400> 32835

```

Leu Ala Val Asp Leu Ala Thr Arg Phe Asn Gly Glu Ile Ile Asn Gly
1           5           10           15
Asp Ala Met Gln Met Tyr Arg Gly Leu Pro Ile Ile Thr Asn Gln Ile
          20           25           30
Pro Phe Glu Glu Arg Asn Gly Ile Pro His His Leu Ile Ser Cys Val
          35           40           45
Asp Phe Glu Glu Gln Pro Trp Arg Ile Arg His Phe Lys Met Gly Met
          50           55           60
Pro Ala Thr Tyr Lys Arg Asp Ile His Ser Arg Arg Glu Ser Leu Pro
65           70           75           80
Phe Gln Phe Gly Gly Thr His Tyr Val His Thr Arg Arg Val Leu Phe
          85           90           95
Lys Gly Leu Thr Gly Leu Lys Glu Ser Pro Phe Leu Gly
          100           105

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<210> 32836

<211> 71

<212> PRT

<213> A.fumigatus

<400> 32836

```

Asn Asn Thr Ala Leu Thr Val Ala Val Val Pro Pro Arg Pro Asp Met
1           5           10           15
Ala Asp Ser Asp Asn His Thr Gly Pro Ser Ile Asn Val Asn Gly Leu
          20           25           30
Asn Tyr Lys Phe Pro Asp Gly Ser Ser Gly Leu Thr Asn Val Ser Leu
          35           40           45
Ser Leu Pro Ala Gly Ser Arg Thr Leu Leu Ile Gly Gly Asp Phe Val
          50           55           60
Pro Ser Ser Leu Asp Glu Ser
65           70

```

<210> 32837

<211> 211

<212> PRT

<213> A.fumigatus

<400> 32837

```

Pro Ile Val Asn Ala Ile Pro Ala Asn Gly Ala Gly Lys Thr Thr Leu
1           5           10           15
Leu Arg Leu Leu Ala Gly Lys Arg Leu Ala Pro Thr Asp Thr Val Ser
          20           25           30
Val Ser Gly Arg Asp Pro Phe Lys His Gly Leu Glu Gly Val Thr Tyr
          35           40           45
Leu Gly Val Glu Trp Val Leu Asn Ser Ile Val Arg Thr Asp Ile Asp
          50           55           60
Val Pro Thr Leu Leu Ala Ser Val Gly Gly Asp Ala Tyr Pro Glu Arg
65           70           75           80
Arg Asp Glu Leu Val Glu Ile Leu Asp Ile Asp Leu Arg Trp Arg Met
          85           90           95
His Ala Val Ser Asp Gly Glu Arg Arg Arg Val Gln Leu Ala Met Gly
          100           105           110
Leu Leu Arg Pro Trp Gln Val Leu Leu Leu Asp Glu Ile Thr Val Asp
          115           120           125
Leu Asp Leu Leu Ser Arg Ser Asn Phe Leu Ser Phe Leu Lys Arg Glu

```

130 135 140
 Thr Glu Thr Arg Pro Cys Thr Ile Val Tyr Ala Thr His Ile Leu Asp
 145 150 155 160
 Asn Leu Ser Gln Trp Pro Thr His Leu Val His Met His Leu Gly Asn
 165 170 175
 Val Ser Gln Trp Gly Pro Met Glu Asn Phe Lys Ser Glu Val Thr Glu
 180 185 190
 Thr Ser Glu Asn Ser Gln Leu Gly Glu Leu Val Leu Lys Trp Leu Lys
 195 200 205
 Asp Leu His
 210

<210> 32838

<211> 293

<212> PRT

<213> A.fumigatus

<400> 32838

Leu Met Ser Leu Leu Ile Tyr Ile Tyr Arg Lys Val Leu Ala Val Leu
 1 5 10 15
 Ile Arg Ala Val Val Thr Arg Gly Lys Arg Ile Ser Ala Asn Pro Asp
 20 25 30
 Asp Val Leu Gln Ile Thr Ser Arg Asp Ala Gly Arg His Leu Arg Ala
 35 40 45
 His Leu Tyr Arg Pro Ala Thr Ser Leu Ser Pro Ser Pro Val Leu Ile
 50 55 60
 Asn Phe His Gly Ser Gly Phe Leu Leu Pro Leu His Gly Ser Asp Asp
 65 70 75 80
 Glu Phe Cys Arg Arg Val Ser Arg Glu Thr Glu Tyr Thr Val Leu Asp
 85 90 95
 Val Gln Tyr Arg Leu Ala Pro Glu Tyr Pro Phe Pro Ala Ala Leu Asn
 100 105 110
 Asp Val Glu Asp Ala Val Lys Trp Val Leu Gln Gln Pro Asp Lys Phe
 115 120 125
 Asp Leu Thr Arg Val Ala Ile Ser Gly Phe Ser Ala Gly Gly Asn Leu
 130 135 140
 Ala Ile Val Ala Ala Ser Val Leu Tyr Pro Arg Glu Thr Phe Arg Ser
 145 150 155 160
 Val Leu Ala Phe Tyr Pro Pro Leu Asp Leu Tyr Thr Asp Pro Gly Ala
 165 170 175
 Lys Arg Pro Pro Asp Pro Ala Gly Asn Pro Ile Pro Ala Pro Leu Cys
 180 185 190
 Arg Leu Phe Asp Lys Ser Tyr Val Pro Ser Ala Tyr Asp Ala Arg Asp
 195 200 205
 Pro Arg Ile Ser Pro Cys Tyr Ala Gln Pro Glu Arg Phe Pro Asp Arg
 210 215 220
 Val Leu Val Val Thr Ala Ala Gly Asp Ser Leu Ala Gly Glu Ala Glu
 225 230 235 240
 Ala Leu Ala Ala Lys Ile Ala Lys Leu Pro Gly Arg Gln Val Val Cys
 245 250 255
 Gln Arg Met Gln Gly Cys Asn His Ala Trp Asp Lys Ser Ala Arg Pro
 260 265 270
 Gly Thr Ile Gln Gly Asp Ala Lys Glu Lys Ala Tyr Ala Met Ala Val
 275 280 285
 Ala Met Leu Met Arg
 290

<210> 32839
 <211> 76
 <212> PRT
 <213> A.fumigatus

<400> 32839
 Tyr Tyr Ser Val Gly His Lys Pro Arg Leu Ala Leu Pro Ala Pro Met
 1 5 10 15
 Thr Phe Glu Ala Arg Pro Lys Pro Leu Pro Gln Arg Thr Leu Ile Ala
 20 25 30
 Gln Glu Trp Gln His Cys Arg His Leu Phe Cys Ser Ile Ala Ile Tyr
 35 40 45
 Leu Arg Tyr Ser Val Val Phe Gln Gly Ile Leu Asp Ile Gln His Tyr
 50 55 60
 Leu Ile Ala Phe Asn His Ser Leu Glu Lys Asn Arg
 65 70 75

<210> 32840
 <211> 329
 <212> PRT
 <213> A.fumigatus

<400> 32840
 Leu Tyr Asp Glu Gly Ile Ile Ile Thr Val Ala Ala Leu Val Ala Ala
 1 5 10 15
 Gly Ile Ala Val Tyr Glu Ser Pro Gln Phe Gln Glu Trp Val Asn Asn
 20 25 30
 Ser Arg Arg Lys Ile Ala Leu Ala Leu His Asn Leu Gly Asp Glu Ile
 35 40 45
 Gln Pro Arg Asp Ser Thr Ser Ser Pro Arg Glu Asp Ile Ser Met Met
 50 55 60
 Glu Glu Val Gly Pro Ala Ala Glu Glu Arg Arg Arg Ile Ala Arg Glu
 65 70 75 80
 Glu Ile Gln Lys Arg Ala Ala Ala Leu Glu Glu Arg Arg Lys Arg Gly
 85 90 95
 Gln Gly Gly Ser Phe Gly Thr Phe Asp Ala Leu Val Asp Glu Asn Gly
 100 105 110
 Asn Leu Leu Arg Pro Asp Ser Arg Glu Pro Thr Asp Arg Thr Leu Ala
 115 120 125
 Asn Ser Thr Ala Val Asp Leu Pro Ser Ser Gln Leu Val His Arg Gly
 130 135 140
 Pro Lys Glu Pro Asp Val Ser Ala Ser Val Ser Glu Ile Arg Pro Ala
 145 150 155 160
 Gly Ile Val Thr Asp Ser Asp Lys Leu His Leu Glu Ile Pro Ser Thr
 165 170 175
 Gly Asn His Ser Ala Ser Leu Val Asp Leu Thr Pro Thr Ser Asp Asp
 180 185 190
 Thr Asp Ile Asp Phe Phe Ala Ser Thr Gly Asp Lys Ser Glu Glu Ala
 195 200 205
 Glu Arg Ser Val His Ser Ser Ala Thr Asp Gln Glu Gln Met Ser Ala
 210 215 220
 Ser Ser His Thr Glu Glu Gly Ser Gln Thr Ile Phe Glu His Pro Glu
 225 230 235 240
 Ser Ser Leu Ile Asp Ser Asn Arg Glu Leu Arg Ser Pro Phe Ser Asp
 245 250 255

12980

Leu Ser Glu Leu Asn Ser Thr Gly Phe Glu Gln Gln Glu Arg Ser Ser
 260 265 270
 Thr Pro Ser Thr Ala Asp Ser Phe Ser His Val Tyr Glu Ser Ala Glu
 275 280 285
 Asp Ala Thr Ser Asp Gly Thr Leu Ser Asp Leu Gly Arg Ser Met Asp
 290 295 300
 Gly Ala Ala Thr Pro Ala Ser Trp Ser Glu Val Gly Ser Val Val Ser
 305 310 315 320
 Asn Glu Asp Leu Gly His His Arg Phe
 325

<210> 32841

<211> 223

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (98), (179), (193)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32841

Pro Thr Ala Ser Thr Gln Lys Asn Pro Asp Asp Val Val Ile Thr Leu
 1 5 10 15
 Ala Leu Arg Thr Pro Leu Thr Lys Ala Ala Lys Gly Gly Phe Lys Asp
 20 25 30
 Thr Asp Leu Asp Tyr Met Ile Tyr Ala Leu Leu Lys Glu Val Val Gln
 35 40 45
 Lys Ser Lys Leu Asp Pro Ala Leu Ile Glu Asp Val Cys Leu Gly Asn
 50 55 60
 Val Cys Phe Leu Leu Leu Phe Gln Phe Tyr Ala Gly Lys Lys Asn Pro
 65 70 75 80
 Ile Asn Arg Tyr Gln Val Asn Asp Gly Lys Ala Ala Tyr Leu Val Arg
 85 90 95
 Ala Xaa Ala Leu Ala Ala Gly Ile Pro His Thr Ala Gly Ala Ser Ser
 100 105 110
 Val Asn Arg Phe Cys Ser Ser Gly Leu Lys Ala Val Gln Asp Ile Ala
 115 120 125
 Asn Gln Ile Gln Leu Gly Ala Ile Asp Val Gly Ile Ala Val Gly Ala
 130 135 140
 Glu Leu Met Ser Ala Gly Gly Asp Arg Leu Pro Arg Pro Phe Asn Glu
 145 150 155 160
 Glu Val Leu Lys Asn Gln Glu Ala Ala Asp Cys Met Gln Pro Met Gly
 165 170 175
 Gln Thr Xaa Glu Asn Val Gly Ala Asp Phe Asn Ile Thr Arg Glu Met
 180 185 190
 Xaa Asp Thr Tyr Pro Ala Glu Ser Phe Pro Ala Gly Gln Ala Gly Gln
 195 200 205
 Lys Ala Gly Cys Phe Asp Asn Lys Thr Ser Pro Ser Arg Leu Arg
 210 215 220

<210> 32842

<211> 498

<212> PRT

<213> A.fumigatus

<221> UNSURE

 $\langle 222 \rangle \quad (285), (451), (455)$

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32842

Arg	Gln	Phe	Ala	Cys	Gln	Glu	Ser	Gln	Leu	Ser	Asp	Glu	Ala	Lys	Lys
1				5					10					15	
Leu	Met	Glu	Ser	Val	Arg	Glu	Asp	Val	Ala	Lys	Ile	Lys	Ala	Gln	Met
			20					25					30		
Val	Leu	Glu	Lys	Asp	Lys	Gln	Asp	Ala	Ala	Asp	Arg	Gly	Ala	Glu	Gly
		35				40						45			
Leu	Lys	Gly	Lys	Asp	Arg	Arg	Ile	Ala	Gln	Pro	Lys	Gly	Lys	Ser	Gly
	50					55					60				
Arg	Phe	Ser	Ser	Ala	His	Met	Ala	Glu	Phe	Lys	Lys	Met	Asp	Ser	Ile
65					70					75					80
Ala	Asn	His	Pro	Ser	Ala	Phe	Arg	Ala	Ala	Pro	Gly	Arg	Phe	Gln	Pro
			85						90					95	
Val	Gly	Ala	Thr	Leu	Lys	Arg	Thr	Asn	Ser	Lys	Ala	Gly	Phe	Asn	Glu
			100					105					110		
Ala	Asp	Ser	Arg	Arg	Gln	Ser	Pro	Leu	Lys	Ser	Thr	Ala	Lys	Pro	Ser
		115					120					125			
Pro	Ala	Ser	Val	Ala	Pro	Ser	Ala	Lys	Arg	Val	Lys	Gln	Asp	Lys	Thr
	130					135					140				
Asp	Asp	Val	Ser	Thr	Arg	His	Pro	Thr	Thr	Asp	Ala	Asp	Lys	Lys	Thr
145					150					155					160
Pro	Lys	Thr	Thr	Leu	Pro	Arg	Pro	Arg	Ser	Ala	Val	Arg	Ser	Ser	Leu
				165					170					175	
Met	Thr	Pro	Thr	Arg	Ala	Ser	Ala	Ala	Arg	Thr	Ser	Ser	Val	Ser	Leu
			180					185					190		
Lys	Pro	Pro	Arg	Thr	Ser	Met	Ile	Pro	Ser	Leu	Pro	Arg	Ser	Pro	Val
		195					200					205			
Ser	Lys	Pro	Ala	Gly	Ile	Pro	His	Thr	Pro	Gln	Thr	Asp	Phe	Asn	Pro
	210					215					220				
Arg	Ile	Lys	Ser	Asn	Leu	Pro	Thr	Leu	Gly	Gly	Leu	Lys	Ser	Ile	Phe
225				230						235					240
Arg	Arg	His	Gln	Pro	Leu	Phe	Ser	His	Asp	Pro	Thr	Lys	Ile	Ala	Ala
			245						250					255	
Gly	Thr	His	Val	Ala	Ala	Pro	Asp	Phe	Thr	Ser	Lys	Phe	Leu	Leu	Gly
		260						265					270		
Ala	Ser	Arg	Glu	Pro	Ser	Val	Tyr	Glu	Glu	Pro	Val	Xaa	Ile	Leu	Ser
		275					280					285			
Pro	Lys	Lys	Arg	Val	Glu	Phe	Thr	Pro	Thr	Thr	Lys	Ser	Pro	Val	Ala
	290					295					300				
Lys	Val	Asp	Ser	Glu	Leu	Asp	Gln	Pro	Ser	Pro	Ser	Pro	Ser	Lys	Ile
305					310					315					320
Thr	Val	Ser	Val	Ser	Lys	Ala	Thr	Ser	Asp	Ile	Val	Tyr	Pro	Thr	Leu
			325						330					335	
Pro	Val	Leu	Thr	Pro	Glu	Lys	Thr	Ser	Ala						

12982

Gly Ile Gly Asn Lys Lys Arg His Arg Ala Thr Glu Asp Glu Ala Asp
 405 410 415
 Thr Glu Asn Val Pro Pro Ala Asp Ser Thr Ser Asp Pro Arg Ser Ala
 420 425 430
 Lys Arg Leu Lys Phe Ser Ala Pro Ser Arg Ala Lys Ala Leu Leu Ser
 435 440 445
 Phe Ser Xaa Thr Lys Ala Xaa Thr His Thr Pro Val Arg Asn Ser Ser
 450 455 460
 Ile Ser Ser Arg Thr Gly Thr Pro Ala Ser Ala Arg Ala Lys Ser Arg
 465 470 475 480
 Gly Val Leu Ser Ile Ser Arg Leu Asn Met Leu Ala Gln Pro Lys His
 485 490 495
 Arg Arg

<210> 32843

<211> 237

<212> PRT

<213> A.fumigatus

<400> 32843

Asp Gln Pro Phe Met Val Ala Arg Lys Glu Ser Arg Leu Tyr Ser Ser
 1 5 10 15
 Trp Tyr Cys Arg Ser Ser Gln Ser Ser Pro Arg Ser Ser Ser Gln Pro
 20 25 30
 Phe Leu Pro Phe Ser Leu Thr Leu Pro Ser Met Ser Thr Met Ser Thr
 35 40 45
 Ser Leu Pro Ala Ala Ser Leu Gly Phe Ser Ala Val Ser Ala Val Ser
 50 55 60
 Pro Arg Leu Lys Arg Ser Arg Ser Trp Ser Val Ser Ile Val Pro Arg
 65 70 75 80
 Pro Ala Phe Cys Trp Leu Thr Thr Val Glu Ala Thr Ser Ile Leu Asn
 85 90 95
 Arg Cys Arg Leu Glu Glu Met Val Ser Tyr Glu Phe Leu Leu Arg Gln
 100 105 110
 Ser Asp Gly Asp Leu Asp Leu Leu Gln Asp Leu Leu Leu Gln Gly Ala
 115 120 125
 Ala Ser Asp Gln Pro Val Asp Val Asp Asp Leu Leu Leu Ala Asp Thr
 130 135 140
 Met Gly Ala Ile His Gly Leu Asp Val Leu Leu Trp Val Pro Val Val
 145 150 155 160
 Leu His Glu Tyr Asp Cys Ile Gly Ala Gly Gln Ile Gln Thr Glu Thr
 165 170 175
 Thr Asp Ala Gly Arg Gln Lys Gln His Ile Val Ala Gly Ile Arg Val
 180 185 190
 Lys Pro Val Asp Asn Val Leu Thr Pro Gly Ser Phe His Ala Ala Val
 195 200 205
 Glu Pro Glu Glu Leu Asn Gly Arg Lys Gln Leu Val Lys His Phe Ala
 210 215 220
 Leu His Asp Ile Gln His Leu Leu His Leu Thr Glu Asp
 225 230 235

<210> 32844

<211> 201

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (32), (75)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32844

```

Ser Arg Lys Phe Leu Gln Pro Ser Arg His Gly Leu Phe Gly Thr Pro
1          5          10          15
Arg Gly Cys Arg Gln Glu Gly Pro Lys Gln Ser Thr Arg Phe Ser Xaa
          20          25          30
Thr Cys Cys Gln Ala Phe Asn Ile Arg Asp Val Ala His Ala Pro Lys
          35          40          45
Leu Ser Ala Leu Arg Asp Leu Leu Ile Asp Cys Gly Ile Gly Val Asp
          50          55          60
Ser Pro Ser Glu Gly Asp Leu Ser Gly Ala Xaa Tyr Val Ser Pro His
          65          70          75          80
Arg Ala Leu Ile Phe Cys Gln Met Lys Glu Met Leu Asp Ile Val Gln
          85          90          95
Ser Glu Val Phe Asn Lys Leu Leu Pro Ser Val Gln Phe Leu Arg Leu
          100          105          110
Asp Gly Ser Val Glu Ala Thr Arg Arg Gln Asp Ile Val Asn Arg Phe
          115          120          125
Asn Thr Asp Pro Ser Tyr Asp Val Leu Leu Leu Thr Thr Ser Val Gly
          130          135          140
Gly Leu Gly Leu Asn Leu Thr Gly Ala Asp Thr Val Ile Phe Val Glu
          145          150          155          160
His Asp Trp Asn Pro Gln Lys Asp Ile Gln Ala Met Asp Arg Ala His
          165          170          175
Arg Ile Gly Gln Lys Lys Val Val Asn Val Tyr Arg Leu Ile Thr Arg
          180          185          190
Gly Thr Leu Glu Glu Lys Ile Leu Lys
          195          200

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<210> 32845

<211> 103

<212> PRT

<213> A.fumigatus

<400> 32845

```

Leu Thr Ile Ser Ser Ser Leu Gln Arg Phe Lys Ile Asp Val Ala Ser
1          5          10          15
Thr Val Val Asn Gln Gln Asn Ala Gly Leu Gly Thr Met Asp Thr Asp
          20          25          30
Gln Leu Leu Asp Leu Phe Asn Leu Gly Glu Thr Ala Glu Thr Ala Glu
          35          40          45
Lys Pro Ser Asp Ala Ala Gly Asn Glu Val Asp Met Val Asp Ile Asp
          50          55          60
Gly Asn Val Lys Glu Lys Gly Lys Lys Gly Trp Leu Asp Asp Leu Gly
          65          70          75          80
Glu Leu Trp Asp Asp Arg Gln Tyr Gln Glu Glu Tyr Asn Leu Asp Ser
          85          90          95
Phe Leu Ala Thr Met Lys Gly
          100

```

<210> 32846

<211> 84
 <212> PRT
 <213> A.fumigatus

<400> 32846

```

Asp Cys Ala Pro Asp Ala Cys Phe Asp Pro Ile Ser Leu His Ser Pro
1          5          10          15
Pro Ser Phe Gln Cys Gln Thr Tyr Leu Cys Tyr Met Ile His Leu Glu
          20          25          30
Arg Arg Leu Thr Leu Asn Ile Lys Val Ser Val Pro Phe Tyr Leu Val
          35          40          45
Glu Phe Thr Asp Asp Asp Leu Ser Pro Val Thr Leu Ser Lys Tyr Gly
          50          55          60
Leu Leu Lys Val Ala Arg Asn Asp Asp Pro Pro Asp Ser Leu Arg
65          70          75          80
Val Ala Ser Arg

```

<210> 32847
 <211> 61
 <212> PRT
 <213> A.fumigatus

<400> 32847

```

Thr Thr Ser Ser Thr Thr Asp Ile Lys Ala Leu Thr Ser Asp Gly Ser
1          5          10          15
Asp Ile Ile Pro Ser Leu Ala Pro Ala Phe Glu Arg Tyr Asn Glu Lys
          20          25          30
Gln Leu Thr Thr Val Lys Leu Pro Gly Ala Ser Gln Glu Val Gly Arg
          35          40          45
Arg Cys Val Gln Pro Ser Arg Gly Arg Ile Leu Thr Arg
          50          55          60

```

<210> 32848
 <211> 121
 <212> PRT
 <213> A.fumigatus

<400> 32848

```

Arg Gly Thr Arg Cys Arg Asn Gly Arg Phe Arg Ser Ile Tyr Arg Val
1          5          10          15
Pro Val Ser Glu Ser Thr Thr Val Ser Gly Lys Ile Leu Val Asp Val
          20          25          30
His Tyr Tyr Glu Asp Gly Asn Val Ala Leu Asn Thr Asn Lys Pro Ile
          35          40          45
Asn Ile Ala Ile Pro Ser Ile Ser Ala Glu Ser Ile Ile Ser Arg Ile
          50          55          60
Ala Ala Ala Glu Arg Asp Tyr Gln Glu Glu Leu Asn Arg Ala Phe Val
65          70          75          80
Gln Met Ala Glu Gly Ala Phe Lys Asn Leu Arg Arg Gln Leu Pro Ile
          85          90          95
Thr Arg Gln Lys Val Glu Trp Glu Lys Val Gly Gly Tyr Arg Leu Gly
          100          105          110
Gln Asp Ile Ser Gly Gly Lys Gly Arg
          115          120

```

<213> A.fumigatus

Gln 1	Cys	Thr	Thr	Asp 5	Gln	Ile	Ile	Ser	Asn 10	Leu	Ala	Leu	Asp	Ile 15	Pro
Pro	Asn	Gly	Tyr	Thr	Pro	Arg	Asn	Val	Asp	Leu	Val	Ser	Cys	Leu	Leu
Thr	Ser	Arg	Thr	Leu	His	Ala	Ala	Thr	Leu	Gly	Val	Leu	Tyr	Arg	Asn
Met	Thr	Phe	Pro	His	Ser	Ile	Ile	Phe	Ser	Lys	Ala	Leu	Asn	His	Met
Ser	Gln	Tyr	Pro	Ala	Leu	Gly	Thr	Leu	Val	Arg	Arg	Leu	Asp	Phe	Ser
His	Phe	Thr	Ser	Val	Gly	Leu	Gly	Arg	Thr	Lys	Gln	Met	Asn	Ala	Glu
Ile	Gln	Asn	Leu	Thr	Ser	Thr	Thr	Leu	Leu	Lys	Cys	Leu	Asp	Leu	Leu
Pro	Asn	Leu	Lys	Glu	Cys	Leu	Leu	Gln	Glu	His	Val	Glu	Gly	Asp	Ile
Ser	Val	Asp	Ile	Val	Arg	Lys	Ile	Phe	Thr	Gly	Leu	Pro	Asn	Leu	His
Gly	Val	Asp	Phe	Cys	Gly	Cys	Ala	Thr	Gln	Ser	Phe	Ser	Ala	Val	Phe
His	Gln	Ala	Leu	Thr	Glu	Pro	Gly	Leu	Pro	Leu	Thr	Leu	Pro	Pro	Asn
Leu	Lys	Arg	Val	Ser	Leu	His	Glu	Cys	Ser	Ser	Leu	Pro	Pro	Ser	Thr
Phe	Glu	Val	Leu	Leu	Pro	Arg	Leu	Ile	Asn	Leu	Thr	His	Leu	Asp	Val
Thr	His	Thr	Gln	Ile	Ser	Glu	Ala	Ala	Leu	Phe	Ser	Ile	Pro	Glu	Thr
Ala	Gln	Ile	Thr	His	Leu	Ser	Leu	Ser	Arg	Cys	Thr	Arg	Leu	Lys	Gly
Pro	Arg	Val	Val	Glu	Phe	Leu	Thr	Thr	His	Pro	Ala	Val	Cys	Asn	Thr
Leu	Val	Tyr	Leu	Asn	Leu	Leu	Ala	Asp	Pro	Thr	Arg	Tyr	Arg	Ile	Leu
Glu	Glu	Asp	Asp	Val	Ser	Ala	Leu	Leu	Pro	Arg	Leu	Pro	Lys	Thr	Leu
Arg	Ser	Leu	Asn	Leu	Gly	Gly	Ala	Lys	Ile	Thr	Ser	Ala	His	Ala	Pro
Ala	Leu	Val	Pro	Leu	Thr	Lys	His	Leu	Glu	Glu	Leu	Gly	Leu	Ser	Ser
Ala	Asp	Leu	Ser	Cys	Lys	Asp	Leu	Asn	Met	Phe	Phe	Ala	Pro	Pro	Leu
Val	Ser	Asp	His	Thr	Gly	Ser	Ala	Glu	Gly	Pro	Glu	Pro	Trp	Val	Pro
Ser	Ser	Leu	Cys	Tyr	Leu	Asp	Leu	Asn	Lys	Val	Pro	Gln	Leu	Ser	Ile
Gly	Thr	Ile	Phe	Asn	Thr	Asn	Thr	Cys	Leu	Leu	Leu	Ser	Gln	Gln	Ser
Tyr	Pro	Leu	Gln	Val	Ile	Glu	Phe	Ser	Asp	Lys	Ile	Ile	Ala	Pro	Leu

12986

Arg Glu Arg Val Lys Asn Asn Arg Ala Ser Ser Gly Trp Thr Val Arg
 405 410 415
 Glu Leu Gly Arg Arg Gly Trp Tyr Val Arg Asp Pro Ala Ser Met Pro
 420 425 430
 Asn Gln Val Pro Asp Asp Gly Ser Arg Pro Trp Lys Met Gly Ala Arg
 435 440 445
 Trp Trp Gly Met Arg Lys Ile Pro Val Ala Val Gly Asp Val Gly Gly
 450 455 460
 Ile Tyr Gly His Tyr Met Phe Lys Lys
 465 470

<210> 32850
 <211> 105
 <212> PRT
 <213> A.fumigatus

<400> 32850
 Leu Trp Gln Gly Thr Arg Tyr Ile Asn Gln Leu Ser Arg Ala Leu Asn
 1 5 10 15
 Ile Pro Glu Ser Ala Met Lys Ala Ala Gly Gln Val Phe Lys Leu Ala
 20 25 30
 Val Gly Leu Asn Phe Ile Gln Gly Arg Arg Thr Lys Thr Val Ala Ala
 35 40 45
 Val Cys Leu Tyr Ile Ala Cys Arg Arg Gln Asp Gly Asn Thr Val Met
 50 55 60
 Leu Ile Asp Phe Ala Asp Val Leu Met Val Ser Asn Leu Arg Gln Leu
 65 70 75 80
 Asp Pro Gly Ser Val His Ser Leu Thr Leu Phe Arg Ser Met Tyr Leu
 85 90 95
 Asn Ser Val Glu Pro Thr Arg Pro Ser
 100 105

<210> 32851
 <211> 328
 <212> PRT
 <213> A.fumigatus

<400> 32851
 Arg Val Gln Ser Arg Pro Pro Ala Ile Ser Cys Ile Leu Leu Ile Leu
 1 5 10 15
 Ser Ser Ser Ser Ser Pro Ala Ile Glu Ala Ser Val Pro Ile Phe Ile
 20 25 30
 Cys Tyr Arg Gly Leu Leu Leu Val Ala Leu Arg Trp Ser Gln Tyr Ile
 35 40 45
 Pro Tyr Thr Ile Ile Ile Arg Ser Gly Arg Pro Arg Ser Ala His Ser
 50 55 60
 Ser Pro Pro Gln Cys Leu Asp Ile Phe Pro Ser Pro Ser Pro Leu Phe
 65 70 75 80
 Phe Pro Phe Leu Glu Val Gln Thr Arg Ser Pro Phe Arg Asp Trp Ser
 85 90 95
 Asn Gln His Arg His Ile Arg Gly Leu Asp His Asn Cys Cys Thr Leu
 100 105 110
 Leu Gln Gly Leu Ile Tyr Thr Arg Ala Val Cys Phe Phe Val Asn Pro
 115 120 125
 Cys Pro Leu Cys Ser Ala Pro Ser Leu Ser Glu Val Gln Pro Pro Val
 130 135 140

12987

Glu Gly Tyr Leu Ala Glu Phe Gln Leu Ser Leu Ser Ser Asp Ile Thr
 145 150 155 160
 Thr Leu Cys Met Met Ser Ala Phe Arg Pro Asn Met Arg Pro Ser Met
 165 170 175
 Pro Pro Arg Ser Gly Pro Arg Ala Pro Pro Val Gly Arg Leu Ala Ser
 180 185 190
 Leu Lys Ala Pro Thr Pro Thr Pro Ile Lys Arg Pro Gln Pro Val Ala
 195 200 205
 Arg Pro Gln Ala Ala Arg Pro Thr Thr His Pro Lys Thr Thr Thr Cys
 210 215 220
 Pro Asn Pro Gly Cys Pro Ala Pro His Ile Val Glu Asp Asp Gly Gln
 225 230 235 240
 Lys Val Cys Ser Gly Cys Gly Thr Val Ile Ser Glu Ala Asn Ile Val
 245 250 255
 Ser Glu Val Thr Phe Gly Glu Thr Ser Ser Gly Ala Ala Val Val Gln
 260 265 270
 Gly Thr Phe Val Gly Glu Asp Gln Thr His Val Arg Ser Tyr Gly Pro
 275 280 285
 Gly Phe Gln Arg Gly Gly Ala Met Glu Ser Arg Glu Ile Thr Glu Gln
 290 295 300
 Asn Gly Arg Tyr Pro Phe Ser Pro Leu Ser Val Leu Leu Ala Arg Ala
 305 310 315 320
 Asp Phe Gly Lys Glu Leu Val Ile
 325

<210> 32852

<211> 127

<212> PRT

<213> A.fumigatus

<400> 32852

Phe Thr Ala Ile Arg Pro Trp Val Arg Thr Leu Ala Asn Ser Val Gln
 1 5 10 15
 Val Asn Val Phe Lys Leu Gly Arg Thr Tyr Lys Ala Leu Leu Asp Glu
 20 25 30
 Leu Arg Leu Gly Gly Asn Val Phe Leu Met Asn Pro Ile Asp Pro Glu
 35 40 45
 Ser Leu Ile Tyr Arg Phe Ala Lys Gln Leu Glu Phe Gly Thr Ala Thr
 50 55 60
 Met Gln Val Ala Ser Glu Ala Val Arg Ile Val Gln Arg Met Asn Arg
 65 70 75 80
 Asp Trp Met Thr Thr Gly Arg Arg Pro Ala Gly Ile Cys Gly Ala Ala
 85 90 95
 Leu Ile Leu Ala Ala Arg Met Asn Asn Phe Arg Gln Thr Val Arg Glu
 100 105 110
 Val Val Tyr Gly Gly Glu Ser His Arg Asp His His Gln Pro Ala
 115 120 125

<210> 32853

<211> 94

<212> PRT

<213> A.fumigatus

<400> 32853

Pro Ser Gly Gly Ser Trp Val Pro Pro His Ile Arg Tyr Leu Ser Ala
 1 5 10 15

12988

```

Thr Ile Leu Met Gly Arg Leu His Gly Asp Asn Ile Tyr Ser Phe Ser
      20                      25                      30
Arg Thr Gly Tyr Thr Leu His Gly Phe Tyr Asp Gln Val Val Arg Tyr
      35                      40                      45
Gly Phe Thr Tyr Thr Pro Leu Asp Tyr Thr His Leu Gly Thr Ile Ile
      50                      55                      60
Ser Thr Phe Leu Gln Thr Ser Thr Gln Thr Thr Trp Ser Thr Leu Gln
      65                      70                      75                      80
Pro Leu Lys Leu Leu Pro Tyr Gln Leu Leu Thr Leu Arg Pro
      85                      90

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<210> 32854
 <211> 162
 <212> PRT
 <213> A.fumigatus

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<400> 32854
Lys Val Leu Leu Thr Gly Val Ser Gly Thr Gly Leu Ser Ala Ala Thr
1                      5                      10                      15
Ala Glu Ala Leu Ala Ser Gly Asp Ala Ala Ala Ile Ile Leu Met Gly
      20                      25                      30
Lys Ser Gln Ala Glu Ala Gln Ala Met Ile Asp Asp Ile Asn His Lys
      35                      40                      45
His Pro Lys Ala Lys Leu Ile Phe Ile Ser Val Asp Phe Gly Arg Leu
      50                      55                      60
Ala Ser Val Arg Glu Ala Ala Glu Ala Ile Arg Lys Leu Glu Val Pro
      65                      70                      75                      80
Ile Asp Gly Phe Val Gly Phe Pro Thr Val Val Ala Gly Pro Trp Met
      85                      90                      95
Lys Thr Glu Asp Gly Ile Glu Ser His Phe Gln Cys Asn Tyr Leu Ser
      100                      105                      110
Asn Phe Leu Leu Ile Asn Leu Val Val His Leu Met Pro Ala Gly Ser
      115                      120                      125
Arg Val Val Ile Val Cys Ser Ser Ile Arg Pro Glu Ala Pro Pro Pro
      130                      135                      140
Ala Trp Asp Asp Pro Asn Phe Ala Val Ser Gly Leu Leu Trp Phe Glu
      145                      150                      155                      160
Leu Gly

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<210> 32855
 <211> 61
 <212> PRT
 <213> A.fumigatus

```

<400> 32855
Ala Lys Cys Tyr Pro Ala Leu Tyr Leu Val His Ile Lys Ser Ser Arg
1                      5                      10                      15
Ala Leu Arg Val Leu Ser Ala Gly Lys Ser Val Leu Met Gln Ala Ala
      20                      25                      30
Met Gly Glu Pro Thr Leu Cys Met Ser Leu Arg Tyr Gln Lys Ile Ile
      35                      40                      45
Tyr Ser Leu Arg Gln Gly Lys Ile Trp Val Ser Pro Ala
      50                      55                      60

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<210> 32856

<211> 63
 <212> PRT
 <213> A.fumigatus

<400> 32856
 Asn Ile Leu His Ala Ser Ser Cys Asn Phe Leu Ser Pro Val Met Arg
 1 5 10 15
 Tyr Met Met Lys Thr Asp Ser Met Ala Ser Gly Leu Glu Gln Tyr Gln
 20 25 30
 Leu Tyr Tyr Thr Arg Cys Lys Thr Glu Ile Asn Ser Gln Gln Ile Thr
 35 40 45
 Tyr Arg Ser Lys Tyr Leu Gly Ser Val Ile Ser Val Arg Pro Gly
 50 55 60

<210> 32857
 <211> 90
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (12)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32857
 Arg Pro His Ala Ile Phe His Ser Cys Val Ser Xaa Ser Ile Asp Ala
 1 5 10 15
 Leu His Ala Ile Asp Ser Ile Asp Phe Thr Thr Pro Asp Ala Thr Gln
 20 25 30
 Ile Asn Ile Phe Glu Thr Thr Ile Arg Tyr Val Gly Gly Leu Leu Gly
 35 40 45
 Ala Tyr Asp Leu Thr Asp Gly Lys His Pro Ile Leu Leu Lys Lys Ala
 50 55 60
 Val Glu Leu Ala Asp Met Ile Tyr Asp Ala Phe Asp Thr Thr Asn Met
 65 70 75 80
 Met Pro Gln Ser Arg Trp Gln Trp Ser Arg
 85 90

<210> 32858
 <211> 297
 <212> PRT
 <213> A.fumigatus

<400> 32858
 Tyr Tyr Gln Tyr Asp Ala Ser Val Ser Leu Ala Met Glu Gln Val Ser
 1 5 10 15
 Arg Pro Leu Leu Glu Pro Leu Lys Ala Ala Ala Asn Tyr Gly His
 20 25 30
 Arg Ser Ala Arg Gly Leu Ser Ile Gln Pro Ser Arg Gln Thr Ile Leu
 35 40 45
 Ala Glu Leu Gly Ser Leu Asn Leu Glu Phe Thr Thr Leu Ser Gln Leu
 50 55 60
 Thr His Asp Pro Lys Tyr Phe Asp Ala Val Gln Arg Ile Thr Asn Val
 65 70 75 80
 Leu Asp Asp Ala Gln Asn Lys Thr Lys Ile Pro Gly Leu Trp Pro Met
 85 90 95

12990

Met Val Asn Ala Glu Asp Leu Glu Phe Thr Asp Pro Arg Phe Thr Val
 100 105 110
 Gly Gly Met Ala Asp Ser Thr Tyr Glu Tyr Leu Pro Lys Glu His Met
 115 120 125
 Leu Leu Gly Ala Arg Thr Asp Gln Tyr Arg Lys Met Tyr Ala Ala Ala
 130 135 140
 Met Glu Ala Ile Lys Lys Arg Leu Leu Phe Arg Pro Met Thr Lys Asn
 145 150 155 160
 Gly Glu Asp Leu Leu Phe Ala Gly Asn Thr His Thr Gly Leu Ala Ser
 165 170 175
 Asn Ala Pro Pro Glu Pro Gln Trp Glu His Leu Lys Cys Phe Phe Gly
 180 185 190
 Gly Thr Val Gly Ile Gly Ala Lys Ile Phe Asn Arg Pro Glu Glu Leu
 195 200 205
 Ser Ile Ala Arg Lys Leu Thr Asp Gly Cys Ile Trp Ala Tyr Asp Val
 210 215 220
 Met Pro Thr Gly Ile Met Pro Glu Ser Met His Leu Ser Pro Cys Gln
 225 230 235 240
 Ser Met Asp His Cys Glu Trp Asp Glu Gln Lys Trp Tyr Gln Asp Val
 245 250 255
 Arg Arg Arg Leu Ala Lys Gly Ser Lys Glu Lys Asp Thr Val Gln Glu
 260 265 270
 Ala Lys Thr Ile Ile Arg Asp Ser Gly Leu Gln Pro Gly Leu Thr Glu
 275 280 285
 Ile Thr Asp Pro Arg Tyr Leu Leu Arg
 290 295

<210> 32859

<211> 142

<212> PRT

<213> A.fumigatus

<400> 32859

Tyr Cys Ser Arg Pro Glu Ala Ile Glu Ser Val Phe Ile Met Tyr Arg
 1 5 10 15
 Ile Thr Gly Asp Lys Lys Leu Gln Asp Asp Ala Trp Arg Met Phe Gln
 20 25 30
 Ser Ile Glu Lys Ala Thr Arg Thr Lys Tyr Ala His Ala Ala Ile Asp
 35 40 45
 Asp Val Arg Asp Val Lys Ala Thr Gln Leu Asp Tyr Met Glu Ser Phe
 50 55 60
 Trp Leu Ala Glu Thr Leu Lys Tyr Phe Tyr Leu Ile Phe Ser Glu Pro
 65 70 75 80
 Gly Leu Val Ser Leu Asp Asp Tyr Val Leu Tyr Val Leu Leu Ser Tyr
 85 90 95
 Glu Val Phe Ala Lys Ala Asn Asp Gln Ala Gly Thr Arg Lys His Ile
 100 105 110
 His Ser Ser Val Pro Leu Leu Val His Arg Leu Leu Ser Gln Thr Leu
 115 120 125
 Pro Leu His Leu Asn Met Ser Arg Leu Met Leu Ser His Gly
 130 135 140

<210> 32860

<211> 393

<212> PRT

<213> A.fumigatus

<400> 32860

Pro Leu Asn Val His Cys Ser Phe Gly Pro Ala Val Cys Glu Asn Arg
 1 5 10 15
 Ser Leu Ser Gly Ser Thr Pro Ser Ala Arg Glu Asn Ile Thr Ala Lys
 20 25 30
 Leu Ile Pro Tyr Gly Ala Arg Leu Ile Ser Leu Met Val Pro Asp Arg
 35 40 45
 Asp Gly Lys Glu Gln Asp Val Val Ile Gly Tyr Asp Asp Pro Asn Ala
 50 55 60
 Tyr Leu Asn Asp Thr Glu Thr Val His Thr Phe Phe Gly Ala Val Val
 65 70 75 80
 Gly Arg Tyr Ala Asn Arg Ile Lys Asn Gly Thr Phe Thr Ile Gly Ser
 85 90 95
 Asn Glu Tyr His Val Pro Lys Asn Glu Asn Asn Gly Ile Asp Thr Leu
 100 105 110
 His Gly Gly Lys Val Gly Tyr Asp Gln Arg Asn Trp Thr Val Thr Ala
 115 120 125
 His Ser Lys Ser Ser Val Thr Phe Thr Leu Tyr Asp Gln Gly Trp Glu
 130 135 140
 Asp Phe Pro Gly Asp Val Ile Thr His Ala Val Tyr Ser Val Asp Thr
 145 150 155 160
 Ala Val Thr Pro Gln Asn Pro Lys Gly Leu Pro Gln Leu Thr Thr Lys
 165 170 175
 Leu Ile Ser Leu Ala Leu Thr Glu Ala Thr Pro Ile Met Leu Ser Asn
 180 185 190
 His Ile Tyr Trp Asn Leu Asn Ala Phe Lys Ala Pro Asn Val Leu Asn
 195 200 205
 Asp Thr Phe Leu Gln Leu Pro Tyr Ser Asn Arg Leu Ile Ala Thr Asp
 210 215 220
 Gly Ile Leu Ile Pro Asn Gly Thr Ile Leu Thr Val Asp Ala Phe Asn
 225 230 235 240
 Gly Ala Pro Asp Phe Thr Glu Gly Lys Leu Ile Gly Ala Asp Leu Lys
 245 250 255
 Asp Thr Tyr Gly Met Cys Gly Thr Asp Cys Thr Gly Tyr Asp Thr Cys
 260 265 270
 Trp Leu Val Asp Arg Pro Pro Gln Tyr Ala Ala Pro Asp Ser Leu Val
 275 280 285
 Pro Ile Val Arg Met Asn Ser Ser Ala Thr Gly Ile Ser Leu Glu Val
 290 295 300
 Ser Ser Asn Met Pro Ala Leu Gln Ile Tyr Thr Cys Asp Asn Ala Lys
 305 310 315 320
 Met Asp Tyr Leu Pro Ile Lys Pro Ser Gln Glu Lys Arg Asn Lys Glu
 325 330 335
 Glu Gly Lys Glu Gly Ala Lys Asn Val Met Gln Tyr Gly Cys Val Val
 340 345 350
 Ile Glu Pro Glu Gly Trp Ile Asp Gly Ile Asn His Pro Glu Trp Gly
 355 360 365
 Gln Leu Pro Leu Gln Ile Phe Ser Pro Asn Asp Gly Pro Ala Val Asn
 370 375 380
 Trp Ala Thr Tyr Gln Phe Gly Thr Val
 385 390

<210> 32861

<211> 563

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (415), (444)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32861

Glu	Ala	Met	Ala	Thr	Pro	Ser	Thr	Ala	Ser	Leu	Asp	Asp	Glu	Lys	Arg	1	5	10	15
Ser	Val	Ser	Ala	Asn	Thr	Ser	Phe	Pro	Leu	Asn	Leu	Arg	His	Asn	Gln	20	25	30	
Thr	Gly	Arg	Pro	Ser	Ser	Pro	His	Thr	Pro	Gln	Gln	Gln	Leu	Arg	Ser	35	40	45	
Ser	Asn	Ser	Ser	Phe	Ala	Ser	Thr	Gly	Ser	Gly	Gly	Ser	Ser	Phe	Arg	50	55	60	
Gly	Glu	Glu	Asp	Ala	Ile	Phe	Glu	Leu	Gly	Ser	Arg	Trp	Phe	Arg	65	70	75	80	
Ala	Gly	Phe	Glu	Gly	Glu	Ser	Thr	Pro	Ile	Cys	Val	Val	Gly	Tyr	Gly	85	90	95	
Pro	Asn	Asp	Trp	Arg	Arg	Ala	Gly	Asp	Tyr	Arg	Gly	Trp	Val	Lys	Gly	100	105	110	
Ile	Asp	Asn	Thr	Ser	Ser	Ser	Arg	Ala	Val	Asn	Ala	Asp	Pro	Trp	Thr	115	120	125	
Gly	Ala	Tyr	Glu	Leu	Trp	Arg	Met	Asp	Leu	Arg	Asp	Val	Asp	Leu	Gly	130	135	140	
Leu	Ile	Glu	Asp	Lys	Ile	Gly	Arg	Val	Phe	Arg	Glu	Thr	Tyr	Asn	Lys	145	150	155	160
Tyr	Leu	Leu	Thr	Asp	Ala	Gly	Thr	Ser	Arg	Leu	Val	Leu	Val	Ile	Pro	165	170	175	
Ser	Ile	Met	Pro	His	Pro	Leu	Leu	Ser	Ser	Ile	Leu	Ser	Thr	Leu	Phe	180	185	190	
Ser	Arg	Trp	Arg	Phe	Pro	Ser	Ile	Thr	Leu	Leu	Pro	Ser	Pro	Ala	Met	195	200	205	
Ala	Ala	Val	Ala	Ala	Gly	Leu	Arg	Ser	Ala	Leu	Val	Val	Asp	Leu	Gly	210	215	220	
Trp	Ala	Glu	Thr	Thr	Val	Thr	Gly	Leu	Tyr	Glu	Tyr	Arg	Glu	Ile	Ser	225	230	235	240
Ala	Lys	Arg	Ser	Thr	Arg	Ala	Met	Lys	Ser	Leu	Leu	Gln	Glu	Thr	Gly	245	250	255	
Arg	Met	Leu	Thr	Arg	Leu	Ala	Ser	Asp	Ala	Ser	Arg	Glu	Ser	Glu	Val	260	265	270	
Ala	Asp	Asp	Ile	Thr	Val	Ser	Phe	Glu	Tyr	Cys	Glu	Glu	Val	Val	Ser	275	280	285	
Arg	Phe	Ala	Trp	Cys	Lys	Pro	Arg	Val	Gly	Asp	Lys	Val	Ala	Ser	Leu	290	295	300	
Ser	Glu	Ser	Arg	Asn	Met	Gln	Ser	Pro	Thr	Gly	Asn	Val	Pro	Glu	Ser	305	310	315	320
Ile	Gly	Asn	Arg	Met	Val	Ser	Ile	Pro	Ser	Pro	Ser	Asn	Pro	His	Ser	325	330	335	
Thr	Tyr	Ile	Asp	Ile	Pro	Phe	Ser	Ala	Leu	Ala	Glu	Pro	Val	Glu	Lys	340	345	350	
Ile	Leu	Phe	Ala	Lys	Glu	Ser	Ala	Glu	Arg	Asp	Leu	Asp	Asp	Glu	Glu	355	360	365	
Lys	Ser	Ile	Pro	Leu	Leu	Val	Tyr	Asn	Thr	Leu	Leu	Gly	Leu	Pro	Pro	370	375	380	

12993

Asp Val Arg Gly Thr Cys Met Ser Arg Ile Ile Phe Val Gly Gly Gly
 385 390 395 400
 Ala Asn Ile Pro Gly Ile Arg Arg Arg Val Ile Asp Glu Val Xaa Ala
 405 410 415
 Met Val Asn Ala Tyr Gly Trp Ser Pro Val Arg Gly Glu Ala Phe Gln
 420 425 430
 Lys Val Glu Glu Lys Phe Leu Ala Ser Arg Leu Xaa Thr Pro Ala Pro
 435 440 445
 Val Thr Gly Ser Gln Ser Ser Ala Val Pro Asp Asn Gln Asp Gln Glu
 450 455 460
 Ala Ala Glu Glu Glu Val Asp Phe Val Glu Gln Lys Leu Arg Arg Ser
 465 470 475 480
 Lys Asp Lys Asp Thr Lys His Gln Val His Gly Ile Leu Arg Glu Val
 485 490 495
 Glu Ser Leu Gly Ala Trp Ala Gly Ala Ser Leu Val Ala Ser Leu Lys
 500 505 510
 Ile Arg Gly Gln Val Glu Ile Glu Arg Glu Lys Tyr Leu Gln His Gly
 515 520 525
 Leu Ala Gly Ala Ser Arg Asp Leu Glu His Gly His Val Pro Asp Arg
 530 535 540
 Arg Ser Gly Leu Arg Ala Gly Gly Asp Arg Ser Ser Trp Thr Leu Ala
 545 550 555 560
 Ala Trp Gly

<210> 32862

<211> 71

<212> PRT

<213> A.fumigatus

<400> 32862

His Glu His Phe Ala Leu Leu Asp Glu Thr Val Pro Ser Ser Ser Phe
 1 5 10 15
 Ser Asp Ile Gln Gln Arg Gly Val Ala Ile Ser Ile Arg Trp Phe Cys
 20 25 30
 Ile Gly Ile Thr Ser Leu Ala Ile Ser Ser Ile Ser Glu Ala Ser Gln
 35 40 45
 Ser Pro Gln Asp Asn Gln Met Ala Ile Asn Leu Trp Glu Lys Arg Phe
 50 55 60
 Glu Lys Arg His Phe Ser Ser
 65 70

<210> 32863

<211> 70

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (19)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32863

Cys Cys Ile Phe Ser Pro Leu Leu Phe Pro Ser Phe Ser Leu Leu Ser
 1 5 10 15
 Ser Leu Xaa Tyr Phe Leu Ser Asp Ser Thr Tyr Ile Val Thr Ile Tyr

12994

	20						25				30								
Leu	Ser	Val	Pro	Ser	Leu	Ser	Asp	Leu	Ser	Ala	Gln	Gln	Leu	Arg	Lys				
	35						40					45							
Arg	Gly	Leu	Asn	His	Leu	Leu	Gly	Gly	Ser	Phe	Arg	Cys	Asn	Lys	Val				
	50					55					60								
His	Asn	Met	Arg	Leu	Pro														
65					70														

<210> 32864

<211> 560

<212> PRT

<213> A.fumigatus

<400> 32864

Arg	Ser	Ile	Arg	Val	Ile	Val	Val	Asn	Thr	Ile	Ser	Leu	Gly	Cys	Ala				
1			5						10					15					
Ile	Met	Ser	Asn	Phe	Val	Leu	Leu	Trp	Gly	Met	Ala	Arg	Arg	Ile	Ala				
			20					25					30						
Phe	Ser	Ile	Ala	Gln	Pro	Ile	Ile	Ile	Ile	Gly	Trp	Tyr	Ile	Ser	Ser				
			35				40					45							
Leu	Leu	Leu	Thr	Cys	Leu	Leu	Cys	Ile	Phe	Ala	Ala	Ser	Lys	Val	Gln				
	50					55					60								
Asn	Asp	Ser	Asp	Ser	Gly	Arg	His	Arg	Trp	Leu	Thr	Gly	Ser	Tyr	Tyr				
65					70				75					80					
Tyr	Gly	Ala	Phe	Ala	Ala	Gly	Leu	Tyr	Phe	Val	Leu	Ser	Ser	Leu	Leu				
			85					90					95						
Leu	Ile	Thr	Val	Tyr	Gly	Ala	Cys	Arg	Gly	His	Tyr	Ser	Arg	Glu	Phe				
			100					105					110						
Arg	Leu	Thr	Thr	Ser	Gln	Arg	Ser	Leu	Met	Leu	Gln	Thr	Ile	Leu	Phe				
			115				120					125							
Leu	Ile	Tyr	Leu	Leu	Gly	Gly	Ala	Ala	Val	Tyr	Ala	Arg	Ile	Glu	Gly				
	130				135					140									
Trp	Arg	Tyr	Leu	Asp	Ala	Val	Tyr	Trp	Ala	Asp	Leu	Thr	Leu	Leu	Thr				
145				150					155					160					
Ile	Gly	Ile	Gly	Asp	Phe	Val	Pro	Glu	Thr	His	Lys	Gly	Arg	Gly	Leu				
			165					170					175						
Leu	Phe	Pro	Tyr	Ala	Val	Gly	Gly	Ile	Leu	Ile	Leu	Gly	Leu	Ile	Val				
			180				185					190							
Gly	Ser	Ile	Arg	Ala	Gln	Met	Leu	Glu	Lys	Gly	Arg	Gln	Lys	Met	Ala				
	195					200					205								
Glu	Thr	Val	Ala	Glu	Arg	Thr	Arg	Arg	Phe	Leu	Val	Arg	Glu	Ala	Val				
	210					215					220								
Ser	Asp	His	Arg	His	Leu	Arg	Asp	Val	Val	Pro	Arg	Leu	Gln	Pro	Glu				
225					230					235				240					
Arg	Asp	Glu	Ser	Asp	Arg	Asp	Arg	Gln	Leu	Arg	Glu	Phe	Gln	Leu	Met				
			245					250					255						
Arg	Arg	Val	Arg	Gln	Ile	Ala	Thr	Leu	Glu	Arg	Lys	Trp	Ile	Ser	Leu				
			260				265						270						
Ala	Thr	Ala	Leu	Thr	Val	Trp	Thr	Met	Leu	Trp	Val	Leu	Gly	Ala	Ile				
			275				280					285							
Ala	Phe	Trp	Leu	Pro	Gly	Gln	Asn	Glu	Lys	Leu	Thr	Tyr	Phe	Glu	Ala				
	290				295					300									
Leu	Tyr	Phe	Ala	Tyr	Thr	Thr	Leu	Phe	Thr	Ile	Gly	Tyr	Gly	Asp	Phe				
305				310					315					320					
His	Ala	Thr	Ser	Glu	Trp	Glu	Arg	Pro	Phe	Phe	Val	Phe	Trp	Thr	Leu				
			325					330					335						

12995

Leu Ala Val Pro Thr Val Thr Leu Leu Ile Ala Asn Val Gly Asp Thr
 340 345 350
 Leu Val Arg Thr Ile Arg Asp Phe Thr Ile Tyr Leu Gly Glu Leu Thr
 355 360 365
 Ile Leu Pro Gly Asp Lys Pro Ile Arg Glu Leu Ile Lys Asp Leu Phe
 370 375 380
 Arg Leu Ser Trp Ala Glu Arg Phe Leu Thr Glu Ala Val Ala Asp Lys
 385 390 395 400
 Lys Pro Asp Glu Glu Asp Val Glu Glu Ser Ala Ala Thr Ala Thr Ala
 405 410 415
 Thr Ala Val Arg Asn Ala Asn Gln Gly Asp Gln Gly Glu Glu Gln Glu
 420 425 430
 Arg Asn Ala Ile Glu Ala Asp Gly His Arg Lys Glu Glu Ser Ala Arg
 435 440 445
 Ala Arg Gly Asp Val Thr Val Glu Thr Ile His His His Tyr Met
 450 455 460
 Leu Phe Arg Glu Val Arg Arg Met Met Asp Tyr Ala Thr Arg Asn Leu
 465 470 475 480
 His Lys Glu Phe Asp Tyr Gln Glu Trp Glu Tyr Phe Leu Asn Leu Ile
 485 490 495
 Ala Ser Asp Gly Gly Glu Thr Asp Gly Glu Glu Gly Asn Ser Lys Trp
 500 505 510
 Asp Trp Thr Gly Tyr Lys Ser Pro Leu Leu Gly Gln Lys Thr Glu Val
 515 520 525
 Gln Trp Leu Leu Glu Ala Leu Thr Glu Ala Leu Glu Arg Glu Leu Arg
 530 535 540
 Lys Ala Ser Arg Gly Tyr His Leu Ser Glu Gln Ser Glu Phe Glu Gln
 545 550 555 560

<210> 32865

<211> 69

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (60)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32865

Tyr Leu Val Ile Glu Ile Val Leu Val Asn Ser Thr Asp Leu Phe Ile
 1 5 10 15
 Leu Tyr Leu Leu Val Glu Glu Leu Asn Ile Ile Tyr Leu Glu Gly Val
 20 25 30
 Ser Ile Lys Tyr Asn Leu Ile Ser Leu Phe Ile Ile Ile Leu Ile Ile
 35 40 45
 Leu Ile Arg Ile Ala Ser Arg Thr Ser Ser Asn Xaa Arg Pro Asp Thr
 50 55 60
 Pro Gly Asn Gly Lys
 65

<210> 32866

<211> 76

<212> PRT

<213> A.fumigatus

<400> 32866

Tyr Ile Leu Val Tyr Asn Phe Phe Leu Phe Ile Ser Phe Lys Tyr Ile
 1 5 10 15
 Tyr Thr Asn Tyr Ser Val Phe Ile Lys Tyr Ser Ile Thr Ile Leu Leu
 20 25 30
 Tyr Ile Asp Asn Ile Leu Ile Leu Leu Asn Ser Asn Asn Leu Ile Asn
 35 40 45
 Asn Phe Leu Lys Gln Leu Gly Lys Leu Phe Lys Tyr Ile Asn Asn Ser
 50 55 60
 Lys Val Ser Val Tyr Leu Gly Ile Asp Ile Leu Tyr
 65 70 75

<210> 32867

<211> 61

<212> PRT

<213> A.fumigatus

<400> 32867

Leu Ile Leu Gly Thr Tyr Leu Asp Ile Thr Phe Thr Ile Ser Lys Leu
 1 5 10 15
 Thr Tyr Phe Thr Arg Asn Pro Ser Pro Asn Tyr Phe Ile Ile Val Lys
 20 25 30
 Tyr Ile Phe Cys Tyr Leu Ile Glu Thr Leu Leu Leu Leu Leu Phe Tyr
 35 40 45
 Leu Ser Ile Leu Ser Asn Asn Ser Phe Ile Asn Thr Asn
 50 55 60

<210> 32868

<211> 295

<212> PRT

<213> A.fumigatus

<400> 32868

Gly Ala Gly Met Pro Leu Arg Ala Asn Tyr Gly Pro Asp Arg Gly Asp
 1 5 10 15
 Ile Val Gly Pro Arg Thr Pro Lys Lys Lys Arg Val Lys Thr Lys Ala
 20 25 30
 Lys Lys Asp Val His Met Asp Ala Leu Asp Pro Ala Thr Pro Ile Arg
 35 40 45
 Glu Ser Leu Pro Leu Thr Pro Pro Pro Ser Met Pro Gly Pro Ser Asp
 50 55 60
 Asn Leu Gly Ser Ser Phe Gly Gln Ser Ala Ala Ser Pro Glu Ser Met
 65 70 75 80
 Thr Ala Ile Phe Ser Ser Pro Ser Pro Ile Pro Ser Ser Pro Phe Pro
 85 90 95
 Phe Ser Pro Val Phe Ser Ser Pro Leu Leu Ser Pro Val Leu Ser Pro
 100 105 110
 Val Ser Ser Pro Val Pro Gly Ser Pro Val Pro Thr Phe Thr Val Pro
 115 120 125
 Glu Glu Asp Asp Leu Asp Ser Pro Leu Glu Asp Thr Leu Tyr Asn Gly
 130 135 140
 Asp Met Cys Pro Cys Asn Phe Asp Phe Leu Ile Lys Gly Glu Ser Arg
 145 150 155 160
 Gln Gly Leu Asp Trp Leu His Pro Cys Glu Glu Glu Leu Leu Asp Leu
 165 170 175
 Arg Arg Asp Val Pro Lys Ala Leu Lys Thr Ser Arg Arg Pro Gln Met

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<210> 32869
<211> 65
<212> PRT
<213> A.fumigatus
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<210> 32870
<211> 873
<212> PRT
<213> A.fumigatus
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<400> 32870																
Ala	Glu	Glu	Arg	Thr	Met	Ala	Ser	His	Ala	Ala	Met	Leu	Leu	Asp	Pro	
1				5					10					15		
Lys	Ala	Tyr	Arg	Lys	Gln	Leu	Gln	Lys	Asn	Gly	Asn	Asp	Pro	Glu	Ile	
			20					25					30			
Ser	Tyr	Ala	Ser	Pro	Asp	Ser	His	Ile	Ser	Ala	Gln	Asn	Glu	Ala	Pro	
		35					40					45				
Asp	Glu	Pro	Leu	Phe	Phe	Phe	Pro	Ser	Ser	Ser	Arg	Cys	Ser	Ser	Pro	
	50					55					60					
Pro	Glu	Asp	Pro	Glu	Tyr	Leu	Asp	Pro	Asn	Asp	Leu	Leu	Val	Asp	Gly	
65					70					75					80	
Thr	Gly	Gln	Gln	Ser	Thr	Ser	Ala	Ser	Pro	Arg	Ser	Ala	Pro	Thr	Thr	
				85					90					95		
Ala	Ala	Pro	Ala	Gly	Thr	Val	Ser	Ala	Ala	His	Gln	Leu	Leu	Asn	Pro	
			100					105					110			
Gln	Arg	Arg	Pro	Arg	Ser	Ser	Lys	Val	Ser	Pro	Lys	Ser	Asn	Ser	Gly	
		115					120					125				
Ser	Gln	Thr	Glu	Ser	Val	Arg	Ser	Gln	Glu	Glu	Gly	Ser	Ala	Ser	Ser	

130	135	140
Ser Pro Arg Arg Pro Ala Arg Asn Gly Pro Ala Pro Glu Ile Glu Phe		
145	150	155
Met Ser Ala Gln Ser Glu Asp Asp Asn Asp Trp Lys Arg Asn Ser Asp		
	165	170
His Leu Asp Ser Asp Val Glu Ala Arg His Ala Ser Leu Ile Glu Asp		
	180	185
Met Tyr Gly Val Glu Lys Arg Val His Gln Pro Tyr Lys Lys Ile Lys		
	195	200
Arg Glu Asn Asp Lys Glu Ala Ser Lys Thr Gly Arg Asn Gly Pro Ile		
	210	215
Thr Ile Thr Gly Asp Thr Gln Leu Gly Lys Tyr Met Lys Glu Asp Lys		
225	230	235
Gly Lys Ser Glu Tyr Ser Ser Pro Ala Thr Pro Ser Val Val Asp Leu		
	245	250
Thr Ile Gly Glu Lys Ile Ser Asp Gly Ser Glu Lys Arg Asp Asp Cys		
	260	265
Met Leu Thr Gly Ser Cys Thr Asp Lys Thr Gly Ala Thr Asn Asp Asp		
	275	280
Asp Asp Leu Gln Val Thr Gly Ser Asn Asn Leu Ser Val Gln Arg Val		
	290	295
Cys Tyr Glu Arg Leu Asp Asn Ala Met Ile Gln Ala Gln Ile Val Pro		
305	310	315
Lys Pro Ala Ala Gln Asn Ile Phe Gly Asp Ser Ala His Asp Trp Pro		
	325	330
Ser Ile Lys Leu Gly Val His Arg His Pro Asp Arg Asn Ser Tyr Arg		
	340	345
Ile Asp Val Ser Asp Pro His Gly Lys Ile Phe Gly Ala Val Asp Ala		
	355	360
Lys Thr Ala Ala Val Ile Val Pro Leu Leu Asp Ser Gln Ala Leu Lys		
	370	375
Val Asp Met Thr Ala Arg Leu Asp Val Arg Arg Arg Leu Pro Gly Glu		
385	390	395
Met Pro Trp Ala Pro Cys Ser Ala Leu Tyr Arg Ala Ser Ile Asn Leu		
	405	410
Tyr Gly Leu Arg Lys Asp Ala Glu Leu Val Gly Lys His Leu Gly Gln		
	420	425
His Asn Val Trp Leu Gly Thr Pro Phe Ser Val Glu Gln Gly Val Pro		
	435	440
Val Phe Asn Pro His Ala Glu Arg Arg Arg Ala Gln Ala Ala Ser Phe		
	450	455
Leu Pro Ser Ile Ala Ala Arg Gly Arg Thr Gly Val Ser Tyr Glu Val		
465	470	475
Arg Thr Ala Glu Glu Val Asn Asp Ala Val Met Lys Met Phe Asp Gln		
	485	490
Leu Gln Ser Ala Gln Asn Leu Pro Glu Met Glu Pro Pro Asp Ser Val		
	500	505
Leu Thr Pro Leu Leu Arg His Gln Lys Gln Ala Leu Trp Phe Met Thr		
	515	520
Glu Lys Glu Lys Pro Arg Lys Phe Gly Pro Lys Glu Glu Asp Asn Asn		
	530	535
Ser Leu Trp Arg Ile Glu Tyr Arg Ala Asn Gly Val Lys Arg Tyr Arg		
545	550	555
Glu Ile Ile Ser Gly Ile Val Leu Asp Glu Glu Pro Pro Gln Ser Leu		
	565	570
Gly Gly Leu Leu Ala Asp Met Met Gly Leu Gly Lys Thr Leu Ser Ile		

580 585 590
 Leu Ser Leu Val Val Ser Ser Leu His Gln Ala His Glu Trp Ala Thr
 595 600 605
 Lys Ile Pro Glu Pro Asp Ile Val Arg Ser Leu Pro Gly Ile Arg Asn
 610 615 620
 Cys Lys Thr Thr Leu Leu Val Val Pro Leu Ser Thr Val Asn Asn Trp
 625 630 635 640
 Val Ser Gln Ile Lys Glu His Leu Lys Glu Asn Ala Ile Ser Tyr Tyr
 645 650 655
 Val Phe His Gly Ser Ser Arg Thr Asn Asp Val Asp Glu Leu Ser Ser
 660 665 670
 Tyr Asp Val Val Ile Thr Thr Tyr Ser Ile Val Leu Ser Glu Leu Ser
 675 680 685
 Gln Arg Gly Ser Lys Arg Gly Val Ser Pro Leu Thr Lys Met Asn Leu
 690 695 700
 Phe Arg Ile Val Leu Asp Glu Ala His Asn Ile Arg Glu Gln Ser Ala
 705 710 715 720
 Ala Gln Thr Gln Ala Ile Phe Lys Leu Asn Ala Gln Arg Arg Trp Ser
 725 730 735
 Val Thr Gly Thr Pro Ile Gln Asn Arg Leu Glu Asp Leu Leu Ser Val
 740 745 750
 Thr Lys Phe Leu Gly Leu Val Pro Tyr Asp Asp Arg Ala Arg Phe Gly
 755 760 765
 Met His Ile Leu Ser Arg Phe Lys Thr Gly Asp Ala Thr Val Leu Ala
 770 775 780
 Ser Leu Arg Val Leu Val Asp Ser Phe Thr Leu Arg Arg Val Lys Asp
 785 790 795 800
 Lys Ile Asp Ile Pro Pro Arg His Asp Lys Ile Ile Thr Leu Asp Phe
 805 810 815
 Ser Glu Lys Glu Lys Gln Leu His Glu Phe Phe Arg Lys Glu Ser Asn
 820 825 830
 Val Met Met Arg Val Ile Ala Gly Glu Asp Lys Thr Lys Met Lys Gly
 835 840 845
 Arg Met Tyr His His Ile Leu Lys Thr Met Met Ile Leu Arg Gln Ile
 850 855 860
 Ser Ala Gln Arg Lys Arg Ala Ser Arg
 865 870

<210> 32871

<211> 68

<212> PRT

<213> A.fumigatus

<400> 32871

Leu Asn Pro Ala Thr Phe Val Cys Asn Asp Arg Val Ala Ala Val Gly
 1 5 10 15
 Tyr Glu Ser Asn Pro Lys Val Ser Gly Thr Lys Asp Val His Leu Asp
 20 25 30
 Pro Val Ile Cys Phe Val Cys Leu Thr Val Leu Ala Ser His Val Thr
 35 40 45
 Asp Phe Gly Pro Arg Leu Glu Leu Phe Pro Thr Glu Gly Asp Gln Pro
 50 55 60
 Ser Gln Cys Ser
 65

<210> 32872

13000

<211> 262
<212> PRT
<213> A.fumigatus

<400> 32872

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Ser Lys Glu Ala Lys Val Ser Tyr His Asp Pro Leu Gln Ser Ser Asp
1          5          10          15
Pro Leu Ser His Ala Asp Gly Leu Leu Ser Ser His Glu Gly Leu Tyr
          20          25          30
Ser Asp Lys Glu Asn Ala Pro Ala Ala Gly Asp Ser Leu Asp Val Leu
          35          40          45
Lys Asn Pro Lys Arg Arg Ala Asn Ala Ala Gly Pro Ser Arg Val Val
          50          55          60
Ser Gln Glu Val Arg Gly Ala Asp Tyr Arg Ile Leu Ser Pro Lys Ser
65          70          75          80
Leu Asn Ser Arg Thr Tyr Pro Gln Ser Pro Phe Arg Ala Ser Pro Glu
          85          90          95
Lys Pro His Asn Ser Ser Tyr Leu Ser Arg Pro Met Ser Pro Leu Lys
          100          105          110
Pro Ser Ser Pro Leu Lys Ser Thr Ser Ala Ser Ala Ala Gly Asn Ala
          115          120          125
Asp Asn Ala Arg Ser Arg Thr Thr Lys Ala Asn Thr Thr Ser Thr Arg
          130          135          140
Asp Thr Arg Pro Pro Ser Gln Thr Lys Arg Pro Ala Ser Arg Ala Ala
145          150          155          160
Thr Thr Thr Lys Thr Val Arg Ser Pro Leu Ser Arg Pro Ala Thr Gln
          165          170          175
Leu Asp Arg Arg Gly Ser Ile Ser Ser Thr Ala Ser Ser Gly Thr Thr
          180          185          190
Val Met Lys Pro Gly Arg Pro Gly Ala Gly Thr Arg Lys Ala Thr Thr
          195          200          205
Val Ser Ser Ala Ser Ala Pro Val Lys Arg Thr Thr Ile Ala Arg Asn
          210          215          220
Gln Ala Pro Ser Val Ala Ser Lys Arg Ser Thr Ala Ser Ala Thr Arg
225          230          235          240
Lys Ala Thr Ala Pro Ala Gly Asn Glu Ala Ser Ala Thr Gly Arg Arg
          245          250          255
Val Leu Arg Lys Arg Ala
          260

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<210> 32873
<211> 83
<212> PRT
<213> A.fumigatus

<400> 32873

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Ser Cys Gly Arg Gly Gly Cys Glu Leu Ala Pro Asp Ala Gly Thr Ser
1          5          10          15
Gly Gln Ala Phe Arg Asp Glu Val Val Arg Phe Ser Trp Ser Ile Phe
          20          25          30
Ser Asn Tyr Lys Tyr Thr Asn Phe Met Pro Lys Ser Leu Val Ser Thr
          35          40          45
Glu Leu Ile Val Val Tyr Asn Thr Glu Ile Asn Ile Leu Ser His Phe
          50          55          60
Ser Thr Ser Ile Asp Ala Thr Asp Val Tyr Asn Leu Val Thr Val Ala
65          70          75          80

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13001

Arg Ser Phe

<210> 32874
<211> 75
<212> PRT
<213> A.fumigatus

<400> 32874
Cys Val Trp Ile Ala Gln Thr Ala Lys Ile Gly Ser Leu Val Asp Val
1 5 10 15
Thr Glu Ser Ala Asp Pro Glu Gly Leu Arg Val Phe Tyr Tyr Leu Val
20 25 30
Gln Asp Leu Lys Ala Leu Ile Phe Ser Leu Ile Ser Leu His Phe Lys
35 40 45
Val Leu Phe Arg Asp Phe Phe Asp Leu Gln Thr Ile Tyr Leu Leu Leu
50 55 60
His Tyr Phe Cys Arg Leu Ser Leu Ser Lys Ser
65 70 75

<210> 32875
<211> 138
<212> PRT
<213> A.fumigatus

<400> 32875
Arg Pro Leu Ala Pro Val Gly Leu Thr Glu Asp His Pro Thr Leu Thr
1 5 10 15
Thr Phe Phe Glu Gly Glu Ile Ile Gly Thr Lys His Thr Phe Lys Thr
20 25 30
Arg Asn Glu Ala Trp Gly Ala Thr Glu Lys Thr Asp Met His His Trp
35 40 45
Ala Arg Phe Pro Ala Trp Arg Pro Leu Ala Lys Gln Ala Lys Lys Pro
50 55 60
Asp Phe Thr Tyr Trp Asn Phe Ala Glu Arg Glu His Ile Phe Met Arg
65 70 75 80
Trp Lys Glu Tyr Phe Leu Val Pro Asp His Arg Val Arg Thr Ile Ser
85 90 95
Gly Ala Ser Phe Glu Gly Phe Tyr Tyr Ile Cys Phe Asn Gln Ile Lys
100 105 110
Arg Ser Val Thr Gly Ile Tyr Phe His Ala Lys Ser Glu Lys Tyr Val
115 120 125
Ser Val Lys Gln Leu Thr Val Leu Gly Ser
130 135

<210> 32876
<211> 151
<212> PRT
<213> A.fumigatus

<400> 32876
Leu Ala Ser Met Pro Thr Pro Ser Asp Asn Thr Ser Pro Leu Asn Val
1 5 10 15
Ala Ser Ile Thr Glu Asp Ile Ser Thr His Thr Thr Cys Pro Pro Glu
20 25 30
Val Glu Arg Leu Ser Ser Trp Arg Asp Ser Pro Glu Pro Ser Ala Thr

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09/417507
10/14/99

[illegible]

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<210> 32877
<211> 582
<212> PRT
<213> A.fumigatus
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Arg 1	Leu	Leu	Ser	Arg	Thr	Arg	Val	Lys	Pro	Ala	Val	Gln	Arg	Arg	Phe
Phe	Ala	Pro	Ser	Arg	Ser	Gly	Pro	Ala	Arg	Asn	Arg	Phe	Gln	Arg	Lys
Gln	Ala	Asn	Leu	Lys	Asp	Val	Val	Arg	Val	Asn	Gln	Val	Ala	Ile	Arg
Leu	Pro	Gly	Phe	Val	Lys	Phe	Ala	Arg	Glu	Cys	His	Gly	Arg	Ala	Ile
Pro	Asp	Ser	Leu	Glu	Thr	Glu	Tyr	Thr	Ser	Lys	Val	Arg	Ser	His	Ser
65	Asp	Ser	Val	Ala	Lys	Leu	Glu	Glu	Met	Val	Glu	Thr	Thr	Val	Asp
Ala	Ala	Leu	Glu	Asn	His	Glu	Phe	Ile	Ile	Lys	Pro	Glu	Phe	Asp	Asp
Ser	Leu	Arg	Ile	Ile	Arg	Lys	Lys	Leu	Asp	Lys	Leu	Arg	His	Asp	Met
Asp	Val	Glu	His	Arg	Arg	Val	Ala	Lys	Asp	Leu	Asp	Gln	Glu	Val	Asp
Lys	Lys	Leu	Phe	Leu	Glu	Asn	His	Arg	Val	His	Gly	Trp	Cys	Phe	Arg
145	Leu	Thr	Arg	Asn	Glu	Ala	Gly	Cys	Ile	Arg	Asn	Lys	Arg	Glu	Tyr
Glu	Cys	Ser	Thr	Gln	Lys	Asn	Gly	Val	Tyr	Phe	Thr	Thr	Ser	Thr	Met
Gln	Ala	Leu	Arg	Arg	Glu	His	Asp	Gln	Leu	Ser	Ser	Asn	Tyr	Asn	Arg
Thr	Gln	Ser	Gly	Leu	Val	Asn	Glu	Val	Val	Asn	Val	Ala	Ala	Ser	Tyr
Cys	Pro	Val	Leu	Glu	Gln	Leu	Ala	Gly	Val	Leu	Ala	His	Leu	Asp	Val
225	Ile	Val	Ser	Phe	Ala	His	Ala	Ala	Val	His	Ala	Pro	Thr	Ala	Tyr
Arg	Pro	Lys	Met	His	Pro	Arg	Gly	Thr	Gly	Asn	Thr	Ile	Leu	Lys	Glu

13003

Ala Arg His Pro Cys Met Glu Met Gln Asp Asp Ile Ser Phe Ile Thr
 275 280 285
 Asn Asp Val Ser Leu Ile Arg Asp Glu Ser Ser Phe Leu Ile Ile Thr
 290 295 300
 Gly Pro Asn Met Gly Gly Lys Ser Thr Tyr Ile Arg Gln Ile Gly Val
 305 310 315 320
 Ile Ala Leu Met Ala Gln Thr Gly Cys Phe Val Pro Cys Ser Glu Ala
 325 330 335
 Glu Leu Thr Ile Phe Asp Cys Ile Leu Ala Arg Val Gly Ala Ser Asp
 340 345 350
 Ser Gln Leu Lys Gly Val Ser Thr Phe Met Ala Glu Met Leu Glu Thr
 355 360 365
 Ser Asn Ile Leu Lys Ser Ala Thr Ser Glu Ser Leu Ile Ile Ile Asp
 370 375 380
 Glu Leu Gly Arg Gly Thr Ser Thr Tyr Asp Gly Phe Gly Leu Ala Trp
 385 390 395 400
 Ala Ile Ser Glu His Ile Val Thr Glu Ile Arg Cys Phe Gly Leu Phe
 405 410 415
 Ala Thr His Phe His Glu Leu Thr Ala Leu Ala Asp Arg Tyr Pro Lys
 420 425 430
 Ser Val Lys Asn Leu His Val Val Ala Phe Ile Gly Asp Gly Thr Asn
 435 440 445
 Asp Asn Ala Gly Glu Glu Arg Pro Lys Lys Gln Gln Val Thr Leu Leu
 450 455 460
 Tyr Arg Val Glu Pro Gly Ile Cys Asp Gln Ser Phe Gly Ile His Val
 465 470 475 480
 Ala Glu Leu Val Arg Phe Pro Glu Lys Val Val Asn Met Ala Arg Gln
 485 490 495
 Lys Ala Glu Glu Leu Glu Asp Phe Thr Ser Ala Glu Ala Gln Gly Gln
 500 505 510
 Gln Ala Gly Ala Ser Ile Asp Gly Tyr Ser Gln Glu Glu Val Glu Glu
 515 520 525
 Gly Ser Ala Leu Leu Lys Gly Met Leu Leu Lys Trp Lys Ala Glu Ile
 530 535 540
 Glu Ser His Asp Arg Lys Leu Thr Val Glu Glu Lys Arg Gln Ile Met
 545 550 555 560
 Arg Asp Leu Val Asn Ala Asp Glu Lys Leu Arg Ala Asn Lys Val Phe
 565 570 575
 Gln Ser Ile Lys Ala Leu
 580

<210> 32878

<211> 267

<212> PRT

<213> A.fumigatus

<400> 32878

His Leu Lys Gln Leu Thr Tyr Thr Leu Arg Gly Leu Ala Thr Thr Pro
 1 5 10 15
 Asn Gly Ile Glu Phe Gln Gly Lys Val Ile Ala Cys Gly Ala Phe Pro
 20 25 30
 Ile Gly Ile Asp Pro Glu Lys Phe Gln Glu Gly Leu Lys Lys Glu Lys
 35 40 45
 Val Gln Lys Arg Ile Ala Gln Leu Glu Gln Lys Phe Gln Gly Val Lys
 50 55 60
 Leu Met Val Gly Val Asp Arg Leu Asp Tyr Ile Lys Gly Val Pro Gln

<210> 32880
 <211> 67
 <212> PRT
 <213> A.fumigatus

<400> 32880
 Leu Phe Pro Gly Phe Leu Gln Phe Trp Leu Ser Ala Lys His Leu Ile
 1 5 10 15
 Leu Ser Ser Thr Ser Tyr Leu Leu Ser Thr Pro Leu Gln Arg Arg Cys
 20 25 30
 Asp Ile Val Asp Arg Leu Asp Tyr Arg Ser Gly Ser Asp Arg Ala Cys
 35 40 45
 Arg Phe Leu Gln Ile Pro Asn Tyr Gly Asn Leu Phe Ala Leu Ala Asn
 50 55 60
 Arg Ser Thr
 65

<210> 32881
 <211> 295
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (60)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 32881
 Ser Gln Gly Phe Ser Ala Gly Glu Asp His Gln Asp Ser Gly Ala Lys
 1 5 10 15
 Glu Arg Arg Cys Ser Trp Leu Gln Lys Pro Thr Ser His Ala Lys Ile
 20 25 30
 Gly Ser Arg Ser Arg Lys Ser Gly Lys Pro Asn Gly His Ala Ala Asp
 35 40 45
 Ala Gly Asn Ser Gln Gly His Leu Leu Thr Thr Xaa Ile Ser Ser Asn
 50 55 60
 Ala Lys Arg Lys Ala Gln Ala Leu Pro Ser Lys Leu Asn Phe Arg Ala
 65 70 75 80
 Ser His Lys Asp Pro Gln Met Lys Arg Lys Ser Leu Ala Thr Glu Ala
 85 90 95
 Glu Leu Ala Asn Ala Phe Arg Asp Lys Ser Gly Ser Lys Ser Ser Thr
 100 105 110
 Met Ala Pro Ala Thr Thr Gln Ile Asp Arg Lys Ala Arg Lys Ser Met
 115 120 125
 Pro Ala Lys Leu Asn Gly Val Thr Asp Lys Lys Glu Thr Val His Pro
 130 135 140
 Lys Ser Ser Ala Lys Leu Ser Ala Ser Arg Pro Ser Thr Pro Leu Arg
 145 150 155 160
 Ile Asp Arg Lys Thr Lys Ser Thr Ser Gln Ala Ser Val Lys Ala Thr
 165 170 175
 Lys Ser Ala Asn Lys Val Ala Gln Val Thr Ser Ala Lys Ala Ala Thr
 180 185 190
 Pro Val Ala Pro Lys Thr Glu Lys Ala Glu Thr Ala Asp Ser Thr Thr
 195 200 205
 Pro Ala Ala Gln Ala Lys Thr Asn Ser Arg Asp Ser Thr Ala Arg Ser
 210 215 220

13006

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Arg Arg Arg Asp Leu Lys Ser Lys Thr Gly Thr Asp Arg Ser Leu Gly
225                230                235                240
Asp His Ile Gln Glu Ser Ser Thr Lys His Asn Pro Lys Pro Pro Val
                245                250                255
Gln Ile Tyr Glu Thr Pro Ser Gln Pro Pro Ser Ala Pro Asp Thr Thr
                260                265                270
Leu Glu Ala Ala Gln Leu Leu Ser Gln Gln His Lys His Val Phe Thr
                275                280                285
Thr Gly Leu Glu Asp Thr His
                290                295

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<210> 32882

<211> 280

<212> PRT

<213> A.fumigatus

<400> 32882

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Arg Tyr Leu Leu Gly Gly Gln Leu Pro Ile Arg Pro Asp Pro Gln Trp
1          5          10          15
Arg Arg Arg Gln Gln Phe His Arg Gln His Gly Tyr Leu Asp His Gln
                20          25          30
Pro Ile Gln Arg Arg His Gln Gln Gly Val Arg His Arg Val Gln Leu
                35          40          45
Arg Ser Tyr Asp Asp Gly Glu His His Ala Arg Ile Lys Ala Asp His
                50          55          60
Ile His Thr Asn Pro Asn Asp Arg Thr Ser Trp Pro Pro His Thr Pro
                65          70          75          80
Asn Phe Ser Pro Pro Arg Gln Ser Thr Pro Ala Ser Pro Pro Ala Val
                85          90          95
Ser Thr Pro Pro Pro Thr Lys Ser Thr Pro Gly Thr Ala Ala Pro
                100          105          110
Arg Ala Thr Ser Ser Ala Pro Gln Arg Ser Gly Ala Val Ser Pro Lys
                115          120          125
Gln Cys Thr Arg Gly Ile Pro Ala His Val Pro Ala Cys Arg Ser Thr
                130          135          140
Thr Ala Ala Trp Ile Pro Leu Ser Thr Arg Arg Ile Thr Thr Lys Pro
                145          150          155          160
Ala Ser Ser Gly Arg Val Ser Ser Gly Thr Thr Ile Thr Arg Arg Ser
                165          170          175
Arg Pro Arg Ala Thr Pro Arg Arg Arg Asn Thr Arg Ile Pro Ser Gly
                180          185          190
Ala Arg Ile Cys Arg Ala Tyr Leu Gln Arg Ala Ser Asp Ile Arg Phe
                195          200          205
Leu Phe Met Gly Ser Arg Thr Trp Ser Gly Leu Gly Leu Pro Gly Val
                210          215          220
Arg Arg Arg Arg Arg Arg Leu Leu Leu Gln Arg Leu Arg Arg Arg
                225          230          235          240
Ala Arg Arg His Arg Arg Gly Gly Arg Arg Pro Ala Leu Val Leu Gln
                245          250          255
Ser Thr Gly Val Asn Val Ala Ala Met Gly Gly Arg Gly Arg Arg Arg
                260          265          270
Val Arg Ala Gly Ile Pro Ala Pro
                275          280

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<210> 32883

<211> 220

13007

<212> PRT

<213> A.fumigatus

<400> 32883

Val	Gln	His	Glu	Ser	Cys	Asn	Gln	Val	Arg	Lys	Ser	Leu	Thr	Leu	Ser
1				5					10					15	
Gly	Thr	Gly	Thr	Ala	Gln	Ala	Tyr	Tyr	Thr	Gly	Ser	Pro	Tyr	Ala	Gln
			20					25					30		
Leu	Ala	Glu	Lys	Tyr	Gly	Phe	Ile	Val	Ile	Tyr	Pro	Gln	Ser	Pro	Tyr
		35					40					45			
Ser	Gly	Thr	Cys	Trp	Glu	Val	Ser	Ser	Gln	Ser	Ala	Leu	Thr	His	Asn
	50					55					60				
Gly	Gly	Gly	Asp	Ser	Asn	Ser	Ile	Ala	Asn	Met	Val	Thr	Trp	Thr	Ile
65					70					75					80
Ser	Gln	Tyr	Asn	Ala	Asp	Thr	Ser	Lys	Val	Phe	Val	Thr	Gly	Ser	Ser
			85						90					95	
Ser	Gly	Ala	Met	Met	Thr	Val	Ser	Ile	Thr	Arg	Glu	Ser	Lys	Gln	Thr
			100					105						110	
Thr	Tyr	Ile	Leu	Thr	Arg	Thr	Thr	Glu	Arg	His	Gly	Arg	His	Ile	Pro
		115					120						125		
Arg	Thr	Phe	Arg	Arg	Arg	Asp	Ser	Leu	Leu	Arg	Arg	Pro	Arg	Arg	Leu
	130					135						140			
Phe	Leu	Leu	Leu	Leu	Gln	Pro	Ser	Gln	Arg	Leu	Glu	Gln	Gln	Leu	Arg
145					150					155					160
Pro	Gly	Gln	Arg	His	Gln	His	Pro	Arg	Gly	Leu	Gly	Arg	Tyr	Arg	Gln
				165					170					175	
Ser	Asn	Val	Pro	Gly	Val	Tyr	Arg	Pro	Thr	Ser	Pro	His	Ala	Asp	Leu
		180						185					190		
Pro	Arg	Gln	Arg	Gly	Tyr	His	Ser	Leu	Pro	Ala	Glu	Leu	Leu	Arg	Asn
	195						200					205			
Leu	Gln	Ala	Val	Gly	Gly	Cys	Leu	Arg	Val	Gln	Leu				
	210					215					220				

<210> 32884

<211> 121

<212> PRT

<213> A.fumigatus

<400> 32884

Phe	Glu	Asn	Pro	Gly	Asn	Gln	Val	Gly	Glu	Asp	Lys	Thr	Gln	Pro	Ile
1				5					10					15	
Gly	Leu	Asn	Val	Leu	Cys	Phe	Phe	Pro	Thr	Thr	Arg	Thr	Glu	Leu	Pro
			20					25					30		
Ala	Pro	Leu	Asn	Asp	Ala	Met	Arg	Ala	Leu	Ser	Val	Phe	Val	Ala	Leu
		35					40					45			
Phe	Ser	Phe	Leu	Ala	Leu	Ser	Ser	Ala	Ser	Pro	Gly	Gln	Asp	Val	Ala
	50					55					60				
Lys	Arg	Val	Thr	Ser	Gly	Ser	Leu	Gln	Gln	Val	Thr	Asn	Phe	Gly	Ser
65					70					75					80
Asn	Pro	Ser	Gly	Thr	Leu	Met	Tyr	Ile	Tyr	Val	Pro	Asn	Asn	Leu	Ala
			85						90					95	
Thr	Lys	Pro	Gly	Ile	Val	Val	Ala	Ile	His	Tyr	Cys	Arg	Cys	Ser	Thr
		100					105						110		
Ser	His	Ala	Thr	Arg	Cys	Glu	Ser	Arg							
	115						120								

13008

<210> 32885
 <211> 158
 <212> PRT
 <213> A.fumigatus

<400> 32885
 Pro Glu Arg Gln Asn Val Met Ala Ala Thr Tyr Pro Glu Leu Phe Ala
 1 5 10 15
 Ala Ala Thr Val Tyr Ser Gly Val Pro Ala Gly Cys Phe Tyr Ser Ser
 20 25 30
 Ser Asn Gln Val Asn Ala Trp Asn Ser Ser Cys Ala Gln Gly Asn Val
 35 40 45
 Ile Ser Thr Pro Glu Val Trp Gly Gly Ile Ala Lys Ala Met Tyr Pro
 50 55 60
 Gly Tyr Thr Gly Pro Arg Pro Arg Met Gln Ile Tyr His Gly Ser Val
 65 70 75 80
 Asp Thr Thr Leu Tyr Pro Gln Asn Tyr Tyr Glu Thr Cys Lys Gln Trp
 85 90 95
 Ala Gly Val Phe Gly Tyr Asn Tyr Asn Ser Pro Gln Ser Thr Gln Ser
 100 105 110
 Asn Thr Pro Gln Ala Lys Tyr Gln Asn Thr Ile Trp Gly Pro Asn Leu
 115 120 125
 Gln Gly Ile Phe Ala Thr Gly Val Gly His Thr Val Pro Ile His Gly
 130 135 140
 Glu Gln Asp Met Glu Trp Phe Gly Phe Thr Gly Gly Ser Ser
 145 150 155

<210> 32886
 <211> 63
 <212> PRT
 <213> A.fumigatus

<400> 32886
 Thr Ser Thr Thr Ile Thr Thr Thr Thr Pro Pro Thr Thr Ser Thr Thr
 1 5 10 15
 Thr Ser Ser Gly Gly Ser Ser Thr Ser Thr Gly Val Ala Glu His Trp
 20 25 30
 Gly Gln Cys Gly Gly Asn Gly Trp Thr Gly Pro Thr Ala Cys Ala Ser
 35 40 45
 Gly Tyr Thr Cys Thr Val Ile Asn Glu Trp Tyr Ser Gln Cys Leu
 50 55 60

<210> 32887
 <211> 108
 <212> PRT
 <213> A.fumigatus

<400> 32887
 Leu Asp Leu Leu His Ser Leu Asp Phe Tyr Thr Trp Thr Arg Asp Ala
 1 5 10 15
 Ala Leu Thr Phe Lys Gly Leu Val Asp Ile Phe Ile Gly Gly Asp Thr
 20 25 30
 Phe Ile Val Val Asn Leu Asp Gly Leu Glu Thr His Ile Gln Asp Tyr
 35 40 45
 Ile Ser Ser Gln Ala Val Leu Gln Asn Val Ser Asn Pro Ser Gly Arg
 50 55 60

13009

Leu Ser Asp Gly Ser Gly Leu Gly Glu Pro Lys Phe Glu Val Asn Phe
 65 70 75 80
 Asn Pro Tyr Ser Gly Gly Trp Gly Arg Pro Gln Arg Asp Gly Pro Ala
 85 90 95
 Leu Arg Ala Ile Thr Met Leu Thr Tyr Ile Arg His
 100 105

<210> 32888

<211> 62

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (11), (21)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32888

Leu Trp Leu Arg Asp Gly Leu Glu Ser Glu Xaa Val Ala Leu Lys Glu
 1 5 10 15
 Ser Asn Ser Phe Xaa Glu Phe Phe Leu Asn Met Tyr Leu Asn Ile Lys
 20 25 30
 Ser Gln Asn Tyr Ala Ser Leu Asn His Phe Leu Met His Leu Asp Phe
 35 40 45
 Arg Gly Leu Ile Cys Met Ser Leu Asp Met Tyr Ser Leu Ser
 50 55 60

<210> 32889

<211> 348

<212> PRT

<213> A.fumigatus

<400> 32889

Arg Pro Thr Ser Pro Ser Ser Cys Leu Thr Gln Tyr Val Thr Glu Tyr
 1 5 10 15
 Ile Leu Ser Val Gln Gln Ala Glu Asp His Phe Ala Ala Phe Ile Ser
 20 25 30
 Val Ala Tyr Met Ala Ile Asp Val Thr Thr Leu Gly Pro Gly Phe Thr
 35 40 45
 His Gly Pro Gly Leu Gly Phe Pro Ser Arg Thr Gly Leu Arg Pro Glu
 50 55 60
 Asp Phe Gly Leu Pro Ser Ala Pro Thr Leu Pro Ile Arg Pro Gly Asn
 65 70 75 80
 Asp Phe Ile Asn Val Leu Asn Lys Leu Arg Ser Gln Val Gly Val Gly
 85 90 95
 Val Ser Pro Ala Lys Leu Tyr Leu Ala Ile Lys Ser Leu Ser Ala Ser
 100 105 110
 Asp Thr Ala Thr Leu Thr Ser Gln Phe Leu Ser Leu Lys Pro Leu Ala
 115 120 125
 Glu His Glu Gln Gly Glu Phe Thr Thr Lys Val Ser Gln Ala Leu Ser
 130 135 140
 Ser Glu Glu Gly Arg Thr Thr Leu Glu Asp Ala Ala Leu Ala Ala Ala
 145 150 155 160
 Arg Ala Cys Lys Asp Ile Lys His Gln Phe Ile Glu Leu Arg Leu Ala
 165 170 175
 Leu Lys Ala Ile Gly Asp Ala Gln Pro Gly Asn Gln Ser Ala Ile Gln

13010

			180					185					190				
Gly	Leu	Gln	Glu	Arg	Leu	Gln	Lys	Cys	Glu	Lys	Val	Arg	Thr	His	Phe		
		195					200					205					
Gln	Asn	Thr	Pro	Ser	Thr	Thr	Lys	Tyr	Asn	Gln	Lys	Tyr	Asp	Gly	Val		
	210					215					220						
Ile	Glu	Lys	Cys	Lys	Glu	Leu	Ser	Met	Gln	Ile	Ser	Val	Tyr	Cys	Glu		
225					230					235					240		
Gln	Phe	Gln	Gly	Ser	Leu	Met	Pro	Tyr	Val	Gln	Ala	Pro	Ile	Glu	Thr		
				245					250					255			
Asn	Glu	Lys	Glu	Asp	Phe	Ile	Asn	Lys	Tyr	Ile	Lys	Val	Gly	Val	Arg		
		260						265					270				
Cys	Asp	Ile	Gly	Leu	Pro	Glu	Leu	Ile	Phe	Tyr	Lys	Lys	Met	Glu	Glu		
	275						280						285				
Phe	Gly	Asp	Leu	Ser	Lys	Lys	Ile	Glu	Glu	Glu	Leu	Asn	Ser	Leu	His		
	290					295					300						
Ser	Asn	Phe	Gly	Tyr	Leu	Met	Thr	Glu	Phe	Leu	Asn	Phe	Thr	Asn	Asn		
305					310					315					320		
Gln	Gln	Pro	Asp	Leu	Ala	Gly	Ser	Ile	Gln	Gln	Ile	Glu	Ser	Lys	Ile		
				325					330						335		
Gln	Glu	Leu	Asn	Lys	Arg	Leu	Cys	Gly	Leu	Lys	Ser						
			340					345									

<210> 32890

<211> 61

<212> PRT

<213> A.fumigatus

<400> 32890

Ser	Leu	His	Ala	Tyr	Arg	Pro	Ser	Ser	Thr	Phe	Ala	Ser	Ser	Thr	Phe		
1			5						10					15			
His	Cys	Tyr	Gly	Ala	Glu	Ile	Gln	Phe	Thr	Met	Glu	Lys	Val	Gln	Trp		
		20					25					30					
Leu	Asp	Phe	Lys	Thr	Thr	Gly	Asn	Leu	Asp	Gln	Met	Ile	Ser	Val	Val		
	35					40					45						
Leu	Gly	His	Ile	Gly	Lys	Glu	Ile	Leu	Trp	Phe	Arg	Gly					
	50					55					60						

<210> 32891

<211> 190

<212> PRT

<213> A.fumigatus

<400> 32891

Lys	His	Leu	Ser	Ser	Gly	Ser	Asp	Pro	Thr	Ala	Gly	Asp	Ala	Ile	Pro		
1			5						10					15			
Asp	Glu	Cys	Ile	Ile	Val	Ala	Ser	Ser	Ile	Lys	Trp	Asp	Val	Gly	Glu		
		20					25					30					
Val	Gln	Ser	Val	Arg	Leu	Ile	Glu	Leu	Gly	Val	Glu	Val	Pro	Gln	Leu		
	35					40					45						
Phe	Arg	Ser	Asn	Arg	Val	Asp	Arg	Val	Cys	Gly	Val	Val	Asp	Leu	Val		
	50					55				60							
Gly	Glu	Val	Gly	Arg	Gly	Gln	His	Val	Ile	Val	His	Lys	Gln	Pro	Asp		
65					70				75					80			
Leu	Gln	Val	Leu	Gly	Leu	Gly	Gln	His	Arg	Asp	Ile	Val	Val	Arg	Ser		
			85				90							95			
Glu	Gln	Ser	Phe	Phe	Leu	Pro	Arg	Pro	Pro	Gly	Gln	Ser	His	Thr	Val		

13011

Val	Asp	Pro	Val	Met	Arg	Gln	Gln	Arg	Ser	Asp	Leu	Gln	Gln	Gly	Gln
		115					120					125			
Gly	Thr	Arg	Ser	Ile	Val	Val	Asp	Ala	Arg	Ser	Phe	His	His	Ala	Val
	130					135					140				
Ala	Val	Cys	Thr	Gly	His	His	Ala	Ile	Val	Gly	Ile	Ser	Phe	Phe	Gly
145					150					155					160
Leu	Arg	Asn	Asp	Ile	Gly	Gly	Gly	Asp	Gly	Leu	His	Arg	Gly	Ile	His
			165					170					175		
Val	Gly	Asp	Arg	Ile	Asn	Leu	Ser	Ala	Ala	Pro	Glu	Leu	Phe		
		180						185					190		

<210> 32892

<211> 464

<212> PRT

<213> A.fumigatus

<400> 32892

Gln	Leu	His	Ser	Thr	Pro	Leu	Leu	Met	Ser	Arg	Met	Val	Ala	Ser	Thr
1				5					10				15		
Ile	His	Leu	Leu	Cys	Thr	Ala	Phe	Ala	Leu	Thr	Ala	Glu	Gly	Ala	Ala
		20						25				30			
Leu	Gln	Leu	Pro	Leu	Phe	Gly	Ala	Ser	Glu	Pro	Gln	Ile	Pro	Val	Ala
	35					40					45				
Gly	Lys	Glu	Leu	Ile	Ser	Ser	Ser	Ala	Leu	Gln	Ser	Gln	Ile	Asp	Val
50					55					60					
Gly	Lys	Leu	Leu	Asn	Arg	Ala	Lys	His	Leu	Tyr	Ser	Ile	Ala	Glu	Leu
65				70					75					80	
Gly	Ser	Asp	Glu	Tyr	Asn	His	Pro	Thr	Arg	Val	Ile	Gly	Ser	Lys	Gly
		85						90					95		
Ser	Phe	Gly	Ala	Val	Trp	Arg	His	Val	Ser	Gln	Gly	Arg	Leu	Thr	His
	100							105					110		
Val	Thr	Ser	Gly	His	Leu	Gly	Thr	Leu	Asp	Tyr	Ile	Tyr	Ala	Thr	Leu
	115					120						125			
Thr	Glu	Phe	Asp	Asp	Tyr	Tyr	Thr	Ile	Ser	Asn	Gln	Thr	Phe	Pro	Ala
130					135						140				
Val	Thr	Gly	Asn	Val	Met	Glu	Ser	Arg	Leu	Val	Leu	Gly	His	Thr	Val
145			150						155						160
Pro	Glu	Ser	Ala	Leu	Pro	Met	Gly	Leu	Thr	Pro	Pro	Thr	Lys	Asn	His
		165						170						175	
Glu	Pro	Val	Tyr	Gly	Pro	Leu	Val	Leu	Val	Ser	Arg	Leu	Gly	Cys	Glu
	180						185					190			
Ala	Ala	Asp	Tyr	Pro	Pro	Glu	Leu	Gln	Gly	Ala	Ile	Ala	Phe	Ile	Ser
	195					200						205			
Arg	Gly	Ser	Cys	Pro	Phe	Gly	Thr	Lys	Ser	Ala	Leu	Ala	Gly	Lys	Ala
210						215					220				
Gly	Ala	Val	Ala	Ala	Val	Ile	Phe	Asn	Asn	Glu	Lys	Gly	Gly	Leu	Gly
225				230					235						240
Gly	Thr	Leu	Gly	Thr	Pro	Ser	Pro	Asp	His	Val	Ala	Thr	Phe	Gly	Leu
		245						250						255	
Ser	Asp	Ser	Asp	Ala	Ala	Pro	Phe	Leu	Glu	Gln	Leu	Arg	Arg	Gly	Arg
	260						265					270			
Lys	Val	Asp	Ala	Ile	Ala	Tyr	Met	Asp	Ala	Thr	Val	Glu	Thr	Ile	Thr
	275					280						285			
Thr	Thr	Asn	Ile	Ile	Ala	Gln	Thr	Lys	Glu	Gly	Asp	Ala	Asp	Asn	Cys
	290					295					300				

13012

Val Met Ala Gly Ala His Ser Asp Ser Val Met Glu Gly Pro Gly Ile
 305 310 315 320
 Asn Asp Asp Gly Ser Gly Ser Leu Thr Leu Leu Glu Ile Ala Ser Leu
 325 330 335
 Leu Pro His Tyr Arg Val Asn Asn Cys Val Arg Leu Ala Trp Trp Ala
 340 345 350
 Gly Glu Glu Glu Gly Leu Leu Gly Ser Asp Tyr Tyr Val Ser Val Leu
 355 360 365
 Ser Glu Ala Glu Asn Leu Lys Ile Arg Leu Phe Met Asp Tyr Asp Met
 370 375 380
 Leu Ala Ser Pro Asn Phe Ala Tyr Gln Val Tyr Asn Ala Thr Asn Ala
 385 390 395 400
 Val Asn Pro Val Gly Ser Glu Gln Leu Arg Asp Leu Tyr Thr Glu Phe
 405 410 415
 Tyr Glu Ala His Gly Leu Asn Phe Thr Tyr Ile Pro Phe Asp Gly Arg
 420 425 430
 Ser Asp Tyr Asp Ala Phe Ile Arg Asn Gly Ile Pro Gly Gly Gly Ile
 435 440 445
 Ala Thr Gly Ala Glu Val Phe Ser Pro Gly Gly Arg Asp Gln Arg Thr
 450 455 460

<210> 32893

<211> 191

<212> PRT

<213> A.fumigatus

<400> 32893

Asn Glu His Val Ala Thr Met Ala Tyr Val Phe His Ile Asp Asn
 1 5 10 15
 Val Glu Val Pro Ser Leu Glu Phe Arg Gln Ile Ser Glu Ser Ala Ser
 20 25 30
 Leu Ala Glu Val Glu His Asp Pro Asp Asp Thr Ile Trp Leu Lys Gln
 35 40 45
 Val Tyr Gly Leu Glu Asp Gly Glu Pro Ile Val Gln Thr Val Gly Arg
 50 55 60
 Ile Arg Thr Pro Val Gly Arg Val Ile Ile Val Pro Ala Thr Ile Gln
 65 70 75 80
 His Arg Val Asn His Cys Glu Leu Ile Asp Lys Thr Arg Pro Gly Ser
 85 90 95
 Val Lys Val Leu Ser Leu Phe Leu Val Asp Pro Asn Ile Arg Ile Ile
 100 105 110
 Ser Thr Ala Asn Val Pro Pro Gln Arg Leu Asp Trp Ser Phe Asp Asp
 115 120 125
 Ile Asp Pro Gln Glu Leu Glu Gly Leu Asp Arg Met Leu Gln Gln Leu
 130 135 140
 Thr Val Arg Phe Ser Glu Arg Lys Asp Ser Leu Pro Ile Ser Leu Asn
 145 150 155 160
 Glu Ala Arg Lys Leu His Asp Glu Val Phe Trp Glu Arg Phe Gln Phe
 165 170 175
 Thr Lys Tyr Glu Gln Val Ala Phe Glu Ser Asn Val Val Ile Leu
 180 185 190

<210> 32894

<211> 302

<212> PRT

<213> A.fumigatus

<400> 32894

Arg Gly Ser Trp Leu Pro Val Glu Asn Thr Met Pro Asp His Val Pro
 1 5 10 15
 Ser Gly Leu Lys Phe Tyr Asn Pro Gly Ser Asp Tyr Val Gln Arg Asp
 20 25 30
 Leu Ala Pro Ile Ala Leu Phe Pro Leu Val Tyr Gly Arg Thr Arg Ile
 35 40 45
 Leu Lys Asp Arg Ile Ile Gly Leu Asp Asp Ala Leu Asp Ser Met Gly
 50 55 60
 Gln Gly Glu Val Ile Pro Val Pro Pro Glu Thr Ile Thr Arg Glu Asp
 65 70 75 80
 Ile Ala Trp Arg Val Ala Ala His Ala Asp Ile Glu Ala Lys Pro Phe
 85 90 95
 Ser Arg Arg Phe Gln Ile Leu Pro Phe Asp Leu Glu Leu Lys Asp Asp
 100 105 110
 Gly Arg Trp His Ile Ile Ser Tyr Ile Asn Asn Leu His Pro Val Arg
 115 120 125
 His Arg Asn Ile Tyr Lys Leu Ile Glu Asp Val Phe Asn Met Thr Ile
 130 135 140
 Pro Gln Trp Asn Ala Ser Leu Thr Pro Leu Lys Asp Met Leu His Ser
 145 150 155 160
 Arg Ala Arg Leu Glu Tyr Lys Lys Ala Gln Tyr His Pro Ile Ala Lys
 165 170 175
 Glu Val Glu Glu Gln Ser Pro Gln Pro Lys Pro Ser Glu Ala Glu Val
 180 185 190
 Asp Tyr Gln Asp Arg Leu Asn Ser Trp Arg Met Glu His Trp Glu Ala
 195 200 205
 Val Gln Pro Asp Ala Gly Arg Phe Ile Pro Trp Ala Val Pro Pro Trp
 210 215 220
 Met Met Cys Phe Leu Pro Ala Asp Leu Pro Thr Pro Val Arg Ile Glu
 225 230 235 240
 Gln Gly Val Glu Leu Asn Arg Asp Tyr Gly Lys Arg Gly Leu Gln Met
 245 250 255
 Ile Cys Arg Ile Thr Cys Tyr Asp Leu Thr Pro Glu His Pro Tyr Thr
 260 265 270
 Glu Thr Gly Tyr His Cys Glu Gly Gln Met Val Arg Phe Phe Arg Asn
 275 280 285
 Cys Thr Ser Ser Ala Ser Leu Leu Leu Ile Val Thr Val Glu
 290 295 300

<210> 32895

<211> 88

<212> PRT

<213> A.fumigatus

<400> 32895

Val Ile Phe Ile Tyr Thr Ser Gln Ile Ala Glu Val Arg Asn Tyr Phe
 1 5 10 15
 Gln Thr Cys Lys Lys Gln Tyr Glu Glu Gln Ala Glu Lys Phe Asn Thr
 20 25 30
 Ser Lys Leu Pro Ser Asp Val Pro Gly Ser Thr Leu Leu Leu Gly Ala
 35 40 45
 Met Lys Pro Ala Ser Arg Ala Glu Ile Met Ser Ser Phe Pro Ser Arg
 50 55 60
 Tyr Thr Ser Asp Met Leu Ile Ala Arg Tyr Phe Asn Ser Tyr Asp Pro

13014

65 70 75 80
Ala Thr Arg Glu Tyr Arg Gln Asn
85

<210> 32896
<211> 274
<212> PRT
<213> A.fumigatus

<400> 32896
Pro Ser Pro Gln Tyr Asn Lys His Trp Glu Asp Pro Ser Gln Ser Cys
1 5 10 15
Ile Val Trp Val Gly Met Leu Phe Ala Met Met Arg Leu Ala Met Leu
20 25 30
Ser Tyr Asn His Glu Gly Asp Glu Pro Pro Glu Phe Arg Gly Lys Ser
35 40 45
Leu Asp Met Ala Gly Ser Phe Arg Asn Leu Val Ala Gln Cys Pro Thr
50 55 60
Leu Ala Asp Tyr Thr Lys Pro Tyr Pro Tyr Leu Ile Glu Thr Phe Ile
65 70 75 80
Phe His Leu His Gly Asp Phe Arg Gln Thr Lys Glu Ala Asp Ile Ser
85 90 95
Val Trp Val Leu Val Gly Val Val Ala Arg Leu Ala Met Arg Met Gly
100 105 110
Tyr His Arg Asp Ser Lys Val Phe Pro Asn Ile Thr Pro Phe Gln Gly
115 120 125
Glu Met Arg Arg Arg Val Trp Thr Phe Val Arg Gln Ser Asp Leu Leu
130 135 140
Phe Ser Phe Gln Val Gly Leu Pro Ser Met Ile Arg Thr Val Asp Ser
145 150 155 160
Asp Thr Glu Leu Pro Arg Asn Leu Tyr Asp Asp Phe Asp Glu Asn
165 170 175
Cys Lys Glu Leu Pro Pro Ser Arg Pro Ala Asn Glu Pro Thr Pro Ile
180 185 190
Ser Tyr Leu Ile Ala Lys Ala Arg Leu Ala Tyr Val Phe Gly Arg Val
195 200 205
Thr Glu Leu Thr Ser Ser Val Gln Ser Glu Ser Tyr Asp Lys Val Met
210 215 220
Glu Leu Asp Ala Glu Leu Arg Arg Ala Arg Asp Leu Ile Pro Glu His
225 230 235 240
Leu Val Ile Arg Pro Phe Glu Glu Cys Gln Leu Asp Pro Ser Asn Leu
245 250 255
Ile Met Ser Arg Phe Gly Val Arg Gln Ser Leu Ala Ser His Lys Arg
260 265 270
Glu Leu

<210> 32897
<211> 133
<212> PRT
<213> A.fumigatus

<400> 32897
Tyr Ala Ala Glu Leu Gly Leu Gly Thr Leu Ala Pro Phe Phe Ile Pro
1 5 10 15
Leu Thr Pro Leu Gly Ile Thr Asn Thr Gly Glu Gln Asp Ser Trp Asp

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<210> 32898
<211> 124
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (49)
<223> Identity of amino acid sequences at the above locations are unknown.
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<210> 32899
<211> 328
<212> PRT
<213> A.fumigatus

<400> 32899
Ser Val Val Ala Pro Gln Phe Pro Thr Asn Phe Ser Ile Leu Arg Leu
1          5          10          15
Arg Ala Ile Thr Glu Pro Arg Ser Ile Leu Gly Ser Ala Asn Pro Leu
          20          25          30
Arg Met Ala Lys Gln Leu Arg Val Ser Leu Thr Thr Thr Leu Thr Leu
          35          40          45

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13016

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Leu Glu Gln Leu Gln Ala Ala Leu Ser Ala Pro Ala Glu Asp Pro Lys
  50                      55                      60
Pro Ala Glu Leu Ser Gly Lys Asp Ala Leu Pro Leu Leu Ser Thr Ser
  65                      70                      75                      80
Ala Thr Ala Leu Lys Ser Gln Val Thr Lys Leu Ser Leu Leu Thr Ile
                      85                      90                      95
Thr Ser Pro Phe Thr His Ser Ala Val Gly Thr Val Leu Ser Ala Leu
                      100                    105                    110
Asn Ser Ser Val Leu Pro Ser Leu Val Thr Gly Ala Leu Leu Val Thr
                      115                    120                    125
Pro Ala Asp His Thr Lys Ala Phe His Ala Glu Val His Ala Leu Thr
                      130                    135                    140
Lys Thr Thr Leu Arg Glu Leu Thr Ser Leu Val Thr Glu Val Gln Ala
  145                    150                    155                    160
Val Ala Glu Lys Ala Asp Lys Ala Lys Glu Gly Gln Arg Lys Gly Gly
                      165                    170                    175
Lys Leu Leu Gln Ala Glu Lys Asp Pro Val Thr Val Ala Thr Gly Arg
                      180                    185                    190
Val Trp Asp Ser Cys Asp Ala Leu Ile Asp Val Ala Ala Lys Gly Val
                      195                    200                    205
Val Gly Phe Val Ile Arg Arg Val Glu Glu Trp Arg Asp Leu Val Arg
                      210                    215                    220
Asp Ala Val Glu Glu Ile Glu Glu Trp Asp Pro Glu Glu Asp Gly Asp
  225                    230                    235                    240
Glu Phe Phe Asp Asp Leu Leu Ser Asp Asp Gly Glu Lys Asp Thr Gln
                      245                    250                    255
Asp Glu Glu Asp Glu Asp Thr Glu Glu Ser Ser Ala Thr Leu His Ala
                      260                    265                    270
Gln Lys Lys Ser Thr Leu Arg Ile Leu Lys Pro Ile Ala Gln Ile Tyr
                      275                    280                    285
Pro Ala Ile Val Ala Asn Arg Leu Lys Gly Ala Gly Asp Val Pro Cys
                      290                    295                    300
Ser Ser Pro Ser Gly Ile Gly Arg Leu Arg Thr Leu Asp Asp Glu Leu
  305                    310                    315                    320
Thr Thr His Pro Gly Ala Tyr Arg
                      325

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<210> 32900
 <211> 107
 <212> PRT
 <213> A.fumigatus

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<400> 32900
Arg Ala Leu Ala Met Cys Arg Ala His Leu Leu Leu Gly Leu Val Asp
  1                      5                      10                      15
Cys Glu Arg Leu Met Thr Asn Leu Gln His Ile Pro Glu His Ile Asp
                      20                      25                      30
Glu Val Ala Gly Ala Leu Tyr Glu Glu Asp Leu Gly Lys Cys Ala Gln
                      35                      40                      45
Tyr Leu Asp Lys Ala Lys His Cys Ala Met Asn Ala Val Asp Ser Val
                      50                      55                      60
Lys Pro Thr Trp Asp Thr Val Asp Ala Thr Asp Gly Gln Gln Lys Glu
  65                      70                      75                      80
Asp Lys Phe Ala Ile Trp Ser Lys Thr Trp Met Asn Val Leu Asp Glu
                      85                      90                      95
Val Ser Lys Ser Val Glu Ala Asp Asn Gln Glu

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13017

100

105

<210> 32901
<211> 167
<212> PRT
<213> A.fumigatus

<400> 32901

Ala	Arg	Pro	Gln	Leu	Pro	Ile	Ile	Ser	Asn	Met	Val	Ala	Thr	Phe	Ser
1			5					10						15	
Pro	His	Arg	Asp	Ala	Gly	Gly	Thr	Leu	His	Leu	Pro	Ser	His	Ser	Gly
			20				25					30			
Ile	His	His	Val	Asp	Ala	Gly	Ser	Ala	Ile	Arg	Gln	Leu	Arg	Arg	Ser
		35					40					45			
Leu	Ser	Arg	Ser	Pro	Ser	Lys	Ser	Ser	Asn	Phe	Thr	Ile	Leu	Ala	Ser
	50					55					60				
Arg	Ser	His	Ser	Pro	Ser	Lys	Ser	Thr	Pro	Phe	Ile	Ser	Ser	Pro	Leu
65					70					75					80
Ser	Pro	Ser	Arg	Arg	Ser	Thr	Gln	Asn	Asn	Phe	Val	Leu	Phe	Pro	Ser
				85					90					95	
Ser	Ser	His	Pro	Ser	Pro	Phe	Ala	Leu	Pro	Tyr	Gln	Thr	Ser	Ala	Lys
			100					105					110		
Ile	Thr	Arg	Pro	Val	Val	Arg	Arg	Ala	Arg	Thr	Ser	Pro	Arg	Ser	Pro
		115					120						125		
Val	Lys	Arg	Ala	Leu	Asn	Ile	Ser	Thr	Asp	Gln	Gly	Asn	Ala	Lys	Pro
	130					135					140				
Ala	Gln	Pro	Ala	Pro	Ile	Met	Ala	Leu	Ser	Pro	Val	Gly	Ala	Glu	Asn
145					150					155					160
Thr	Pro	Ala	Ala	Pro	Ser	Ala									
				165											

<210> 32902
<211> 60
<212> PRT
<213> A.fumigatus

<400> 32902

Thr	Val	Phe	Pro	Glu	Leu	Ile	Asp	His	Ala	Gly	Lys	Ser	Ser	Leu	Thr
1				5					10					15	
Val	Arg	Phe	Val	Glu	His	His	Phe	Val	Glu	Ser	Tyr	Tyr	Pro	Thr	Ile
			20					25					30		
Glu	Asn	Thr	Phe	Ser	Arg	Ile	Ile	Lys	Tyr	Asn	Gly	Gln	Asp	Phe	Ala
		35					40					45			
Thr	Glu	Ile	Val	Asp	Thr	Ala	Gly	Gln	Val	Ser	Ile				
	50					55					60				

<210> 32903
<211> 83
<212> PRT
<213> A.fumigatus

<400> 32903

Ile	Ser	Ser	Phe	Ile	Ile	Phe	Ser	Thr	Gly	Leu	Phe	Leu	Val	Ile	Pro
1				5					10					15	
Leu	Ile	Ile	Asp	Leu	Lys	Met	Leu	Asp	Leu	Ala	Asp	Phe	Val	Ser	Asp
			20					25					30		

13018

Arg Gly Gly Asn Pro Asn Lys Ile Lys Glu Ser Gln Arg Lys Arg Phe
 35 40 45
 Ala Pro Glu Asn Val Val Asp Glu Val Ile Ala Leu Tyr Glu Glu Ala
 50 55 60
 Arg Arg Gly Ile His Ile Ser Val Phe Asp His Gly Leu Glu Arg Ser
 65 70 75 80
 Arg Ala Pro

<210> 32904
 <211> 97
 <212> PRT
 <213> A.fumigatus

<400> 32904
 Ala Phe Gly Arg Leu Pro Val Trp Leu Tyr Phe Ser Met Leu Ile Glu
 1 5 10 15
 Glu Gln Gly Ala Asp His Val Pro Leu Val Val Val Gly Asn Lys Ser
 20 25 30
 Asp Leu Lys Ser Glu Gln Arg Gln Val Ser Leu Asp Glu Gly Arg Gln
 35 40 45
 Leu Gly Glu Glu Phe Gln Cys Ala Phe Thr Glu Ala Ser Ala Arg Leu
 50 55 60
 Asp Tyr Asn Val Thr Lys Ala Phe Asp Leu Met Ile Gly Glu Ile Glu
 65 70 75 80
 Lys Ser Gln Asn Pro Ser Gln Pro Ala Gly Gly Ser Lys Cys Ile Leu
 85 90 95
 Met

<210> 32905
 <211> 78
 <212> PRT
 <213> A.fumigatus

<400> 32905
 Ser Val Leu Phe Val Leu Lys Leu Met Gly Asp Ser Met Pro Thr Asp
 1 5 10 15
 Ser Gly Ser Leu Trp Ser Leu Ser Ile Asp Gly Ala Asn Ser Thr Asn
 20 25 30
 Lys Pro Lys Ser Arg Asp Leu Gly Ser Arg Val Arg Cys Ile Asp Val
 35 40 45
 Ser Ser Pro Ala Ser Gln Pro Met Cys Gln Gly Leu His Val Thr Leu
 50 55 60
 Asp Tyr Thr Tyr Ile Gln Pro Gly Val Val Leu Glu Pro Ser
 65 70 75

<210> 32906
 <211> 70
 <212> PRT
 <213> A.fumigatus

<400> 32906
 Ser His Pro Ser Ala Leu Leu Ala Gln Val Ala Arg Lys Leu Ala Arg
 1 5 10 15
 Val His Pro Leu Gln Phe Asn Val Gln Lys Val Tyr Asn Lys Thr Gly

[illegible]

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<210> 32907
<211> 206
<212> PRT
<213> A.fumigatus
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<210> 32908
<211> 60
<212> PRT
<213> A.fumigatus
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<400> 32908
Leu Gly Lys Val Ala Val Cys Tyr Leu Leu Ala Cys Pro Gln Gly Phe
1          5          10          15
His Cys Pro Ser Ser Asp Phe Leu Phe Met Ala His Phe Val Phe Asp
20          25          30
Thr Leu Ala Ala Trp His Leu Lys Cys Leu Ile Val Met Phe Leu Val
35          40          45
Leu Trp Tyr Leu Ser Ala Trp His Ser Cys Thr His
50          55          60

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<210> 32909
 <211> 72
 <212> PRT
 <213> A.fumigatus

<400> 32909
 Pro Arg Ile Gln Ser Gln Gln Glu Gln Tyr Ser Asp Ser Ser Tyr Asp
 1 5 10 15
 Asp Pro Gln Met Tyr Glu Tyr Gly Asp Asp Gln Arg Asp Asn Tyr Arg
 20 25 30
 Pro His Ser Arg Gly Ser Lys Tyr Glu Asn Gly Asn Val Tyr Gly Pro
 35 40 45
 Gly His Arg Gln Tyr Gly His Ser Thr Phe Gly Asp Asp Val Gln Leu
 50 55 60
 Asp Asp Asp Asp Asp Asp Met Trp
 65 70

<210> 32910
 <211> 64
 <212> PRT
 <213> A.fumigatus

<400> 32910
 Ser Leu Tyr Leu Phe Pro Met Phe Trp Ser Pro Ser Val Asn Leu Ser
 1 5 10 15
 Leu Pro Ile Tyr Leu Val Cys Cys Ala Lys Ser Ala Gly Ser Leu Tyr
 20 25 30
 Leu Thr Arg Glu Ser Gly Ser Met Leu Pro Ala Gly Leu Ser Ser Gly
 35 40 45
 Ile Pro Leu Pro Val Leu Gly Phe Ser Phe Tyr Gly Ala Phe Arg Leu
 50 55 60

<210> 32911
 <211> 69
 <212> PRT
 <213> A.fumigatus

<400> 32911
 Lys Arg Leu Gly Leu Ser Asn Ser Pro Arg Thr Leu Leu Lys Ser Leu
 1 5 10 15
 Ile Asn Ser Tyr Arg Thr Leu Leu Lys Ser Trp Met Asn Ser Pro Arg
 20 25 30
 Ala Leu Ser Lys Ser Leu Met Asn Asn Ala Ile Thr Thr Leu Asn Ala
 35 40 45
 Lys Val Asn Thr Val Leu Phe Gln Arg Thr Tyr Leu Asp Glu Ile Ile
 50 55 60
 Ala Phe Phe Ser Leu
 65

<210> 32912
 <211> 113
 <212> PRT
 <213> A.fumigatus

<400> 32912
 Leu Ile Leu Ala Leu Ala His Gly Thr Phe Ile Phe Ala His Ala Pro

13021

```

1           5           10           15
Val Tyr Gly Trp Tyr Leu Ala Ser Ser Ala Ile Gly Leu Ile Ile Ser
      20           25           30
Trp Ser Leu His Asn Val Val Ala Trp Met Lys Asn Arg Pro Phe Met
      35           40           45
Gly Arg Lys Leu Ser Leu Phe Tyr Ile Gly Thr Ile Ile Leu Val Gln
      50           55           60
Pro Tyr Trp Val Ala Glu Ile Tyr Ala Asn Phe Ala Tyr Phe Asn Asp
      65           70           75           80
Ile Asn Arg Thr Val Tyr Glu Lys Ile Arg Pro Trp Glu Ala Leu Phe
      85           90           95
Arg Tyr Asp Ala Leu Met Val His Leu Val Phe Ile Ala Glu Gly
      100           105           110
Cys

```

<210> 32913

<211> 60

<212> PRT

<213> A.fumigatus

<400> 32913

```

Thr Asp Ile Val Cys Ser Tyr Gln Pro Leu Ser Thr Arg Ser Ser Gly
1           5           10           15
Met Thr Ser Val Cys Asp Glu Cys Arg Leu Arg Arg Arg Arg Cys Asp
      20           25           30
Arg Ile Arg Pro Lys Cys Thr Ser Cys Val Asn Gln Gly Val Ala Cys
      35           40           45
Val Tyr Arg Gln Ala Thr Glu Ser Pro Pro Ser Gln
      50           55           60

```

<210> 32914

<211> 65

<212> PRT

<213> A.fumigatus

<400> 32914

```

Lys Ile Ile Pro Met Pro Leu Cys Pro Cys Pro Asn Phe Leu Lys Pro
1           5           10           15
Thr Arg Ser Trp Asn Thr Cys Pro Ser Ile Pro Ser Met Thr Ile Leu
      20           25           30
Tyr Leu Val Cys Val Phe Leu Ser Leu Gly Asp Lys Pro Ser Ile Ser
      35           40           45
Asp Ala Thr Ile Met Phe Lys Arg Ala Ser Ser Arg Gln Lys Ile Asp
      50           55           60
Arg
65

```

<210> 32915

<211> 63

<212> PRT

<213> A.fumigatus

<400> 32915

```

Ser Asp Tyr Ser Tyr Glu Ala Thr Val Val Phe Lys Ile Tyr Arg Thr
1           5           10           15

```

13022

Thr Arg Gln Ser Ile Asp Asn Glu Ala Gln Tyr Pro Thr Trp Asp Ile
 20 25 30
 Tyr Ile Lys Leu Arg Thr Ala Gly Ser Tyr Asp Leu Tyr Lys Tyr Pro
 35 40 45
 Ala Asp Ile Cys Ser Ser Thr Glu Phe Asp Thr Leu Lys Leu Ser
 50 55 60

<210> 32916

<211> 316

<212> PRT

<213> A.fumigatus

<400> 32916

Arg Ser Cys Ser Leu Pro Met Ile Leu Leu Ala Ser Ser Arg Arg Ala
 1 5 10 15
 Cys Ser Leu Ala Cys Ser Ser Leu Gln Pro Val Ala Arg Asp Arg Ser
 20 25 30
 Leu Ser Phe Ala Thr Ser Thr Ala Thr Trp Ser Arg His Leu Pro Asp
 35 40 45
 Ser Leu Phe Ser Leu Ser Ser Gln Arg Leu Ser Ser Ser Tyr Leu Pro
 50 55 60
 Arg Phe Ser Arg Arg Thr Phe His Ala Thr Ser Leu Phe Ser Leu Asp
 65 70 75 80
 Ala Pro Arg Ile Ser Tyr Arg Val Ala Ala Ser Ser Ser Pro Lys Asn
 85 90 95
 Arg Arg Phe His Pro Pro Thr Asn Phe His Asn Phe Gln Pro Glu Leu
 100 105 110
 His Asp Ala Ile Gly Val Val Thr Glu Glu Ile Asp Ala Ala Thr Arg
 115 120 125
 Arg Lys Arg Arg Pro Asp Ser Gly Glu Asp Ala Phe Phe Val Ser Arg
 130 135 140
 Val Gly Ser Gln Asp Ser Gly Ala Ile Ala Phe Ala Val Ala Asp Gly
 145 150 155 160
 Val Gly Gly Trp Val Glu Ser Lys Val Asp Pro Ala Asn Phe Ser His
 165 170 175
 Ala Leu Cys Leu Tyr Met Ala Leu Glu Ala Leu Ser Trp Asp Ser Ser
 180 185 190
 Thr Asp Lys Leu Arg Ala Lys Asn Leu Leu Gln Ser Gly Tyr Asp Gln
 195 200 205
 Leu Val Ala Asp Lys Ser Ile Arg Ala Gly Gly Ser Thr Ala Ser Val
 210 215 220
 Gly Val Gly Leu Glu Asp Gly Gln Val Glu Leu Ala Asn Leu Gly Asp
 225 230 235 240
 Ser Gly Ser Met Leu Leu Arg Leu Ala Ala Val His His Tyr Ser Val
 245 250 255
 Pro Gln Thr His Gly Phe Asn Thr Pro Tyr Gln Leu Ser Ile Ile Pro
 260 265 270
 Pro Arg Met Arg Ala Gln Ala Ser Ile Phe Gly Gly Ser Phe Leu Glu
 275 280 285
 Glu Ser Pro Arg Asp Ala Val Val Pro Asn Leu His Met Gln His Arg
 290 295 300
 Arg Arg Ala His Ala Thr Asp Arg Trp Arg Leu Arg
 305 310 315

<210> 32917

<211> 111

<212> PRT

<213> A.fumigatus

<400> 32917

```

Arg Leu Glu Arg His Ile Lys Ala Gln Ser Val Arg Glu Val Cys Trp
1           5           10           15
Val Asp Leu Gly Leu His Pro Ala Ser Asn Ser Val Arg Asp Cys Glu
          20           25           30
Gly Asp Gly Ala Gly Val Leu Thr Ser Asn Ser Ala His Lys Glu Gly
          35           40           45
Ile Phe Pro Thr Ile Trp Pro Pro Leu Ala Ser Gly Gly Gly Val Asn
          50           55           60
Phe Phe Cys Asp His Ala Asp Ser Ile Val Lys Leu Gly Leu Glu Ile
65           70           75           80
Val Glu Ile Gly Gly Arg Val Glu Thr Ala Ile Leu Gly Arg Arg Arg
          85           90           95
Gly Gly His Thr Val Gly Asp Ala Trp Ser Ile Glu Thr Glu Gln
          100          105          110

```

<210> 32918

<211> 73

<212> PRT

<213> A.fumigatus

<400> 32918

```

Asn Arg Glu Trp Ile Arg Phe Asn Pro Ile Gln Ala Pro Pro Ser Ser
1           5           10           15
Phe Asn Pro His Ser Ala Leu Phe Phe Ala Ser Thr Thr Gln Gln Val
          20           25           30
Thr Gly Asp Arg Asp Gly Leu Thr Lys Arg Arg Leu Pro Pro Gly Arg
          35           40           45
Ser Ser Asp Phe Leu Phe Asp Ser Phe Leu Phe Leu Pro Ser Leu Gly
          50           55           60
Arg Val Phe Leu Leu Leu Phe Phe
65           70

```

<210> 32919

<211> 287

<212> PRT

<213> A.fumigatus

<400> 32919

```

His Glu Gly Pro Pro His Phe Leu Pro Glu His Ser Ala Lys Gly Asn
1           5           10           15
Phe Leu Asp Trp Ala Ser Leu Ser Pro Thr Gly Leu Ala Leu Pro Pro
          20           25           30
Gly Asp Ser Thr Thr His Glu Pro Val Leu Leu Ser Asp Glu Asp Leu
          35           40           45
His Val Leu Asp Pro Ala Phe Leu Ser Lys His Thr Asp Thr Ser Ile
          50           55           60
Asp Asn Asn Asn Arg Pro Pro Tyr Asp Gln Arg Pro Gln Leu Asn Pro
65           70           75           80
Ala Ser Thr Asn Gln Gly Ala Ser Asn Leu His Ser Ala Arg Pro Ser
          85           90           95
Arg Ser Ser Ile Thr Ser Ile Ser Ser Thr Thr Ser Thr Ser Thr Ser
          100          105          110

```

Ala Thr Thr Gly Ser Asp Ile Thr Ser Pro Lys Lys Ala Ser Lys Ser
 115 120 125
 Ser Lys Arg Asn Ser Lys Pro Lys Val Tyr Asp Lys Asn Asp Pro Arg
 130 135 140
 Arg Glu Arg Tyr Leu Glu Arg Asn Arg Arg Ala Ala Ser Lys Cys Arg
 145 150 155 160
 Arg Gln Lys Lys Glu Arg Asn Gln Gln Leu Glu Asn Leu Tyr Arg Lys
 165 170 175
 Gln Ser Ala Glu Gln Glu Arg Leu Leu Ser Glu Arg Asp Arg Met Arg
 180 185 190
 Ser Glu Leu Leu Ser Leu Lys Asp Glu Leu Leu Lys His Ala Gln Cys
 195 200 205
 Glu Asp Pro Pro Leu Lys Phe Tyr Ile Ala Gln Met Val Glu Glu Ala
 210 215 220
 Gly Ala Ala Val Ala Pro Gly Arg Pro Ile Asn Thr Tyr Ser Pro Gly
 225 230 235 240
 Tyr Ser Glu Gln Gln Ala Gln Pro Leu Met Phe Asn Asp Asp Asp Val
 245 250 255
 Leu Gln Gln Arg Ser Pro Thr Met Lys Met Ser Met Val Ala Asp Ala
 260 265 270
 Pro Trp Ser Thr Ser Gly Gly Asp Phe Val Asp Phe Val Gln Leu
 275 280 285

<210> 32920

<211> 76

<212> PRT

<213> A.fumigatus

<400> 32920

Phe Cys Gly Phe Cys Ser Ile Val Ile Asn Phe Ile Thr Pro Pro Arg
 1 5 10 15
 Lys Leu Phe Ser Trp Ser Trp Ile Leu Ala Cys Ile Glu Tyr Val Tyr
 20 25 30
 Leu Lys Leu Asn Ser Arg Val Glu Thr Thr Leu Tyr Lys Gln Lys Phe
 35 40 45
 Met Ala Val Gln Arg Glu Ala Ala Ser Val Cys Tyr Ser Arg Pro Pro
 50 55 60
 Ser Gln Gln Ser Thr Tyr Val Ser Arg Arg Ser Glu
 65 70 75

<210> 32921

<211> 291

<212> PRT

<213> A.fumigatus

<400> 32921

Tyr Arg Ala Glu Arg Leu Asp Arg Ala Asp Phe Cys His Leu Cys Phe
 1 5 10 15
 Ala Glu Tyr Val Asp Asp Thr Leu Arg Ile Ala Leu Thr Leu Ala Gly
 20 25 30
 Ser Asp Ala Thr Ala His Met Ser Glu Glu Val Lys Asp Ala Gly Arg
 35 40 45
 Tyr Val Pro Ile Ala Ile Ala Trp Gly Tyr Phe Ser Asn Gly Val Met
 50 55 60
 Ala Ile Val Val Val Ile Ser Phe Leu Phe Ala Ile Pro Ser Val Glu
 65 70 75 80

```
<210> 32922
<211> 166
<212> PRT
<213> A.fumigatus
```

[illegible]

165

<210> 32923
 <211> 68
 <212> PRT
 <213> A.fumigatus

<400> 32923
 Cys Leu Ile Leu Tyr Leu Gln Thr Arg Cys Arg Arg Ala Pro Lys Tyr
 1 5 10 15
 Gly Leu Gln Ser Arg Ile Leu Thr Tyr His Pro Tyr Val Ser Met His
 20 25 30
 Gln Asp Gln Asp Ala Gly Ser Tyr Arg Pro Val Ile Ile Tyr Asn Arg
 35 40 45
 Gly Gln Met Glu Arg Val Met Arg Gln Tyr Arg Glu Phe Val Leu Leu
 50 55 60
 Tyr Thr Asp Asn
 65

<210> 32924
 <211> 167
 <212> PRT
 <213> A.fumigatus

<400> 32924
 Ile Met Pro Leu Ser Gln Ile Thr Pro Cys Leu Trp Phe Asp Gly Gln
 1 5 10 15
 Ala Glu Glu Ala Ala Arg Phe Tyr Val Ser Ile Phe Pro Asn Ser Lys
 20 25 30
 Ile Thr Ala Ile Gln Arg Tyr Thr Glu Ala Gly Lys Val Tyr His Gly
 35 40 45
 Arg Glu Ala Gly Ser Val Met Val Val Glu Phe Glu Leu Asn Gly Gln
 50 55 60
 Thr Phe Thr Gly Leu Asn Gly Gly Pro Gln Phe Lys Phe Thr Gly Ala
 65 70 75 80
 Ile Ser Phe Gln Val Asp Cys Glu Asp Gln Asp Glu Val Asp His Tyr
 85 90 95
 Trp Asn His Leu Lys Asp Gly Gly Asp Glu Thr Lys Gln Gln Cys Gly
 100 105 110
 Trp Val Thr Asp Lys Phe Gly Leu Thr Trp Gln Ile Ile Pro Arg Arg
 115 120 125
 Leu Lys Glu Met Leu Ser Asp Ser Asp Leu Glu Arg Lys Ser Arg Val
 130 135 140
 Thr Asn Glu Met Ile Lys Met Lys Lys Leu Asp Val Gly Leu Leu Glu
 145 150 155 160
 Lys Ala Tyr Glu Gly Ala Leu
 165

<210> 32925
 <211> 137
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (82)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32925

```

Cys Pro Asn Val Gly Pro Gly Pro Asn Thr Thr Thr Asp Arg Leu Gln
1          5          10          15
Thr Gly Tyr Pro Asp Gln Ser Ile Asn Lys Thr Ser Ser Tyr Leu Asp
          20          25          30
Leu Ser Thr Leu Tyr Gly Asp Asn Gln Asp Glu Gln Asn Met Ile Arg
          35          40          45
Thr Phe Glu Asp Gly Lys Ile Lys Pro Asp Cys Phe Ala Glu Pro Arg
          50          55          60
Leu His Ile Leu Pro Ala Ser Gly Val Ile Leu Ile Met Leu Asn
65          70          75          80
Arg Xaa His Asn Tyr Val Ala Glu Gln Leu Ala Ile Ile Asn Glu Asn
          85          90          95
Gly Arg Phe Thr Lys Pro Lys Ala Glu Ile Ile Glu Pro Val Glu Ala
          100          105          110
Gly Leu Ala Val Leu Asn Met Asn Thr Asn Ser Ser Lys Leu His Ala
          115          120          125
Pro Ser Leu Ala Ala Cys Ile Ser Thr
          130          135

```

<210> 32926

<211> 199

<212> PRT

<213> A.fumigatus

<400> 32926

```

Pro Ile Leu His Ser Glu Arg Arg Val Ala Phe Glu Leu Ser Ser Lys
1          5          10          15
Leu Thr Gly Asn Gln Lys Glu Phe Asn Ala Arg Asn Leu Thr Asn Trp
          20          25          30
Gly Phe Ser Glu Ala Lys Tyr Asn Leu Glu Ile Asn Gln Gly Cys Ser
          35          40          45
Phe Tyr Arg Leu Ala Leu Arg Ala Phe Pro Lys Trp Phe Lys Tyr Asp
          50          55          60
Ser Ile Tyr Ala His Tyr Pro Met Thr Ile Pro Ser Glu Asn Arg Val
65          70          75          80
Ile Met Lys Ala Leu Gly Arg Glu Glu Asp Phe Ser Trp Asp Arg Pro
          85          90          95
Ser Tyr Ile Pro Gln Arg Ile Ser Val Phe Asp Tyr Ala Asn Val Arg
          100          105          110
His Ile Leu Gln Asp Ala Ser Asn Phe Arg Val Met Trp Gly Glu Ala
          115          120          125
Thr Ala Tyr Val Phe Gly Ser Lys Gly Trp Asp Phe Met Leu Ser Gly
          130          135          140
Asp Ala Pro Thr His Ala Asn Gln Arg Asn Ile Met Ser Arg Ala Leu
145          150          155          160
Tyr Arg Gly Gln Trp His Asp Ala Val Lys Gln Phe Tyr Leu Asp Ile
          165          170          175
Thr Gln Gln Leu Leu Thr Glu Lys Ser Cys Arg Ile Gly Asn Val Asn
          180          185          190
Gln Val Asp Ile Ser Arg Glu
          195

```

<210> 32927

<211> 287
 <212> PRT
 <213> A.fumigatus

<400> 32927

Thr	Ser	Arg	Ser	Arg	Ala	Gly	Cys	Ala	Lys	Tyr	Glu	His	Glu	Leu	Phe
1				5					10					15	
Gln	Thr	Ala	Arg	Pro	Ile	Thr	Gly	Gly	Met	Tyr	Ile	Asn	Ile	Thr	Trp
			20					25					30		
Phe	Asp	Tyr	Val	Arg	Thr	Ile	Ile	Asn	Leu	Asn	Arg	Asp	Asn	Ser	Thr
		35					40					45			
Trp	Asn	Leu	Asp	Pro	Arg	Thr	His	Asp	Asp	Gln	Asp	Glu	Ile	Pro	Thr
	50					55					60				
Ala	Gln	Gly	Asn	Gln	Cys	Ser	Val	Glu	Phe	Asn	Leu	Ala	Tyr	Arg	Trp
65					70					75					80
His	Ser	Thr	Ile	Gly	Arg	Gln	Asp	Glu	Ala	Trp	Thr	Glu	Lys	Thr	Tyr
				85					90					95	
Arg	Glu	Ile	Val	Gly	Lys	Pro	Gly	Gln	Glu	Ala	Thr	Leu	Gln	Asp	Leu
			100					105					110		
Met	Asp	Gly	Met	Arg	Lys	Phe	Asn	Ala	Arg	Met	Asp	Lys	Asp	Pro	Ser
		115					120					125			
Lys	Arg	Thr	Phe	Ala	Gly	Leu	Gln	Arg	Gln	Gly	Asp	Gly	Thr	Phe	Arg
		130				135					140				
Asp	Val	Asp	Leu	Val	Asp	Ile	Leu	Thr	Arg	Ala	Ile	Glu	Glu	Val	Ser
145					150					155					160
Gly	Ser	Phe	Gly	Pro	Asn	Asn	Val	Pro	Lys	Val	Leu	Arg	Ser	Val	Glu
				165					170					175	
Ile	Leu	Gly	Ile	Gln	Gln	Ala	Arg	Lys	Trp	Asn	Ile	Gly	Ser	Leu	Asn
		180					185						190		
Glu	Phe	Arg	Lys	Phe	Phe	Asp	Leu	Lys	Pro	Tyr	Glu	Ser	Phe	Glu	Glu
		195					200					205			
Ile	Asn	Pro	Asp	Pro	Tyr	Val	Ala	Asp	Gln	Leu	Arg	His	Leu	Tyr	Glu
	210					215					220				
His	Pro	Asp	Tyr	Val	Glu	Leu	Tyr	Pro	Gly	Ile	Val	Ala	Glu	Glu	Pro
225					230					235					240
Lys	Glu	Pro	Met	Val	Pro	Gly	Val	Gly	Ile	Ala	Pro	Gly	Tyr	Thr	Val
				245					250					255	
Ser	Arg	Ala	Val	Leu	Ser	Asp	Ala	Val	Thr	Leu	Val	Arg	Gly	Asp	Arg
			260					265					270		
Phe	Tyr	Thr	Val	Arg	Asp	Glu	Ser	His	Ser	Ser	Ser	Val	Ala	Ser	
		275					280						285		

<210> 32928
 <211> 64
 <212> PRT
 <213> A.fumigatus

<400> 32928

Arg	His	Gly	Thr	Cys	Ala	Ser	Phe	Ser	His	Gly	Phe	Ile	His	Lys	Val
1				5					10					15	
Leu	Gly	Ser	Leu	Ser	Val	Ser	Asp	Gln	Ile	Ser	Asn	Met	Tyr	Asp	Gln
			20					25					30		
Phe	Thr	Gly	Leu	His	Pro	Ala	Gln	Val	Ser	Asp	Ala	Phe	Gly	Gly	Asn
		35					40					45			
Val	Gln	Thr	Gln	Tyr	His	Glu	Leu	Lys	Thr	Pro	Tyr	Ser	Ile	Tyr	Asn
	50						55				60				

<210> 32929
 <211> 115
 <212> PRT
 <213> A.fumigatus

<400> 32929

```

Glu Phe Thr Leu Gln Val Pro Met Ala Leu Thr Asp Glu Leu Leu Glu
1          5          10          15
Gln Lys Gln Phe Asp Lys Ala Leu Glu Ile Cys His Phe Ile Phe Ser
          20          25          30
Pro Met Asp Ser Arg Asp Pro Ser Lys Cys Trp Lys Phe Arg Leu Phe
          35          40          45
Gln Glu Ile Met Ala Lys Asp Tyr Leu Asp Asn Phe Phe Gln Ser Leu
          50          55          60
Ile Pro Asn Gln Gly Asn Ser Gln Ile Thr Gly Arg Arg Asn Asn Pro
65          70          75          80
Phe Ala Pro His Val Val Ala Arg Ser Arg Thr Val Ala Tyr Met Lys
          85          90          95
Ala Thr Val Met Lys Tyr Ile Gln Ile Leu Ile Asp Tyr Gly His Gln
          100          105          110
Tyr Phe Arg
          115

```

<210> 32930
 <211> 118
 <212> PRT
 <213> A.fumigatus

<400> 32930

```

Leu Ala Asn Phe Leu Ser Leu Asn Gly Asn Leu Gln Ile Ala Val Ser
1          5          10          15
Met Pro Ser Ile Glu Val Gly Thr Ile Gly Gly Gly Thr Ile Leu Glu
          20          25          30
Ala Gln Ser Ala Met Leu Asp Met Leu Gly Val Arg Gly Ser His Pro
          35          40          45
Thr Asn Pro Gly Asp Asn Ala Arg Gln Leu Ala Arg Ile Val Ala Ala
          50          55          60
Ala Val Leu Ala Gly Glu Leu Ser Leu Cys Ser Ala Leu Ala Ala Gly
65          70          75          80
His Leu Val Arg Ala His Met Ala His Asn Arg Ser Ala Ala Thr Thr
          85          90          95
Arg Thr Ser Thr Pro Val Ser Ala Ala Val Ser Ala Ala Arg Gly Leu
          100          105          110
Thr Met Ser Ser Ser Glu
          115

```

<210> 32931
 <211> 275
 <212> PRT
 <213> A.fumigatus

<400> 32931

```

Ala Leu Leu Leu Leu Ala Gln Pro Leu Arg Pro Val Gly Val Ala Gly
1          5          10          15
Pro Leu Thr Ile Asp Gly Gln Ser Tyr Phe Ile Pro Met Ala Thr Thr

```


13031

```

1           5           10           15
Arg Ile Thr Lys Thr Asn His Asn Ile Leu Gln Gly Phe Ser Asn Pro
      20           25           30
Gly Glu Arg Cys Thr Glu Glu Asp Trp Ala Lys Val Thr Asp Trp Ile
      35           40           45
Gln Glu Asn Ala Arg Arg Tyr Trp Leu Ile Pro Gly Gly Pro Leu Arg
      50           55           60
Pro Pro Ser Glu Gly Gly Ala Asp Val Ile Ile Met Asp Asp Pro Gln
      65           70           75           80
Met Pro Ala Leu Ile Pro Ile Ala Lys Glu Met Ala Pro Asp Arg Pro
      85           90           95
Val Ile Phe Arg Ser His Ile Gln Ile Arg Ser Asp Leu Ile Ala Lys
      100          105          110
Pro Asp Thr Pro Gln Ala Glu Ala Trp Gly Arg Met Trp Glu Leu Ile
      115          120          125
Lys Gln Ala Asp Leu Phe Ile Ser His Pro Val Ser Ser Phe Val Pro
      130          135          140
Arg Asn Val Pro Lys Glu Met Val Gly Tyr Met Gly Ala Ser Thr Asp
      145          150          155          160
Trp

```

<210> 32934

<211> 241

<212> PRT

<213> A.fumigatus

<400> 32934

```

Gln Ile Thr Asp Glu Tyr Ile Ile Gln Ile Ala Arg Phe Asp Pro Ser
1           5           10           15
Lys Gly Ile Phe Asp Val Val Glu Ser Tyr Glu Lys Phe Tyr Asn Arg
      20           25           30
Leu Thr Ala Ala Leu Pro Asp Glu Lys Pro Pro Lys Leu Leu Ile Cys
      35           40           45
Gly His Gly Ser Ile Asp Asp Pro Asp Gly Ser Leu Ile Tyr Asp Ala
      50           55           60
Val Val Ser His Ile Glu His Asn Ile Pro Tyr Leu Ile Glu Gln Ile
      65           70           75           80
Cys Val Met Arg Leu Gly Pro Ser Asp Gln Ile Leu Asn Ala Leu Met
      85           90           95
Ser Lys Ala Lys Val Ala Leu Gln Leu Ser Thr Arg Glu Gly Phe Glu
      100          105          110
Val Lys Val Ser Glu Ala Val His Lys Gly Thr Pro Ile Ile Ala Thr
      115          120          125
Arg Ala Gly Gly Ile Pro Leu Gln Val Glu Asn Asn Arg Ser Gly Phe
      130          135          140
Leu Val Asp Val Gly Asp Thr Asp Ala Val Ala Glu Tyr Leu Phe Lys
      145          150          155          160
Leu Phe Thr Asp Glu Glu Phe Tyr Gly Glu Met Ser Arg Tyr Glu Ile
      165          170          175
Lys Asn Val Cys Asp Glu Val Ser Thr Val Gly Asn Ala Leu Asn Trp
      180          185          190
Leu Tyr Leu Ala Ser Lys Met Ser Lys His Glu Pro Val Arg Pro Asn
      195          200          205
Gly Arg Phe Ile Asn Asp Met Ala Arg Glu Glu Ala Gly Phe Pro Tyr
      210          215          220

```

13032

Glu Pro Asp Glu Ser Arg Leu Thr Arg Ala Val Glu Val Glu Asn Met
 225 230 235 240
 Gly

<210> 32935
 <211> 251
 <212> PRT
 <213> A.fumigatus

<400> 32935
 Asn Pro Glu Trp Arg Ser Lys Val Lys Lys Asp Pro Gly Ile Pro Asn
 1 5 10 15
 Leu Phe Pro Phe Lys Asp Lys Ile Leu His Glu Ile Glu Glu Lys Lys
 20 25 30
 Arg Leu Lys Ala Glu Glu Gln Gln Arg Leu Lys Glu Glu Ala Arg Ala
 35 40 45
 Arg Arg Met Ala Glu Lys Gln Gln Ser Gln Asp Gly Gly Ser Val Pro
 50 55 60
 Asn Ala Met Ile Asp Asp Asp Glu Ile Asp Glu Asp Met Asp Glu Asp
 65 70 75 80
 Asp Leu Asp Ser Ser Asn Pro Met Ala Ala Leu Leu Ala Ser Ala Arg
 85 90 95
 Ala Arg Ala Ala Glu Tyr Glu Asp Glu His Gly Asp Glu Ser Asp Glu
 100 105 110
 Asp Asp Glu Met Asp Glu Asp Asp Asp Glu Asp Asp Asp Asp Val
 115 120 125
 Asp Gly Met Asp Glu Asp Glu Lys Glu Gly Ser Ala Thr Leu Gly Glu
 130 135 140
 Asn Ile Pro Glu Leu Val Ser Gln Pro Ile Ser Lys Glu Asn Ser Arg
 145 150 155 160
 Arg Ala Phe Asp Lys Val Phe Lys Gln Val Val Asp Ala Ala Asp Val
 165 170 175
 Ile Leu Tyr Val Leu Asp Ala Arg Asp Pro Glu Gly Thr Arg Ser Lys
 180 185 190
 Glu Val Glu Arg Glu Val Met Ala Ala Asp Gly Gly Ser Lys Arg Leu
 195 200 205
 Ile Leu Ile Leu Asn Lys Ile Asp Leu Val Pro Pro Pro Val Leu Lys
 210 215 220
 Gly Trp Leu Leu His Leu Arg Arg Ser Leu Pro Thr Leu Pro Leu Asn
 225 230 235 240
 Ala Ala Asn Gly Leu Gly Gln Arg Thr His Leu
 245 250

<210> 32936
 <211> 300
 <212> PRT
 <213> A.fumigatus

<400> 32936
 Thr Arg Ser Ile Trp Ser Pro Leu Leu Cys Ser Lys Ala Gly Tyr Cys
 1 5 10 15
 Thr Cys Asp Asp Leu Cys Pro Arg Tyr Leu Ser Met Arg Pro Met Gly
 20 25 30
 Ser Val Asn Ala His Thr Cys Asp His Lys Gln Leu Thr Val Lys Gly
 35 40 45

13033

```

Thr Leu Glu Thr Leu Phe Arg Ala Leu Lys Ser Leu Cys Arg Asn Lys
  50                      55                      60
Gln Leu Asn Trp Ser Ile Ser Val Cys Ile Ile Gly Tyr Pro Asn Val
65                      70                      75                      80
Gly Lys Ser Ser Val Ile Asn Ala Leu Thr Ala Arg Leu Asn Lys Gly
                      85                      90                      95
Ser Ser Asn Ala Cys Pro Thr Gly Ala Glu Ala Gly Val Thr Thr Ser
                      100                      105                      110
Leu Arg Gln Val Lys Leu Asp Ser Lys Leu Lys Leu Ile Asp Ser Pro
                      115                      120                      125
Gly Ile Val Phe Pro Asn Ser Ser Asp Lys Lys Lys Ser Lys Ser Lys
                      130                      135                      140
Lys Asp Glu His Ala Arg Leu Val Leu Leu Asn Ala Ile Pro Pro Lys
145                      150                      155                      160
Gln Ile Glu Asp Pro Ile Pro Ala Val Ser Leu Leu Leu Arg Arg Leu
                      165                      170                      175
Ser Ser Ser Glu His Leu Met Ser Lys Met Leu Gln Leu Tyr Asn Ile
                      180                      185                      190
Pro Pro Leu Phe Pro Ser Gly Asn Asp Gln Thr Thr Asp Phe Leu Ile
                      195                      200                      205
Gln Val Ala Arg Lys Arg Gly Arg Leu Gly Lys Gly Gly Ile Pro Asn
                      210                      215                      220
Leu Glu Ser Ala Ala Met Ala Val Ile Asn Asp Trp Arg Asp Gly Arg
225                      230                      235                      240
Ile Gln Gly Trp Ala Thr Pro Pro Val Leu Pro Ser Val Val Met Thr
                      245                      250                      255
Ala Gln Gly Gly Ser Thr Ser Pro Val Glu Ser Gly Val Asp Thr Lys
                      260                      265                      270
Gln Ile Val Thr Glu Trp Ala Ala Glu Phe Lys Ile Glu Gly Leu Trp
                      275                      280                      285
Gly Asn Gly Glu Gly Asp Asp Glu Glu Met Ala Glu
                      290                      295                      300

```

<210> 32937

<211> 70

<212> PRT

<213> A.fumigatus

<400> 32937

```

Val Arg Pro Ile Tyr Asp His Leu Arg Thr Val Ser Lys Thr Arg Ser
1                      5                      10                      15
Arg Ile Gly Ala Glu Leu Gly Val Asp Pro Lys Thr Ile Leu Ala Thr
                      20                      25                      30
Ser His Gly Arg Arg Ser Ile Asp Thr Ile Lys Leu Tyr Asp Pro Ser
                      35                      40                      45
Lys Ala Asn Trp Glu Cys Lys Tyr Ser Pro Tyr Ala Ile Tyr Gln Pro
                      50                      55                      60
Ser Thr Arg His Pro Ile
65                      70

```

<210> 32938

<211> 220

<212> PRT

<213> A.fumigatus

<400> 32938

13034

```

Pro Ser Pro Leu Ala Ala Leu Arg Gly Ser Val Gly Lys Asp Arg Arg
1          5          10          15
Lys Cys Ser Ser Gln Pro Leu Ser Thr Gly Gly Gly Thr Arg Ser Ile
          20          25          30
Leu Phe Arg Ile Lys Ile Ser Leu Leu Glu Pro Pro Ser Ala Ala Ile
          35          40          45
Thr Ser Arg Ser Thr Ser Phe Asp Arg Val Pro Ser Gly Ser Arg Ala
          50          55          60
Ser Ser Thr Tyr Lys Ile Thr Ser Ala Ala Ser Thr Thr Cys Leu Asn
65          70          75          80
Thr Leu Ser Asn Ala Arg Arg Glu Phe Ser Phe Glu Met Gly Cys Glu
          85          90          95
Thr Ser Ser Gly Met Phe Ser Pro Ser Val Ala Leu Pro Ser Phe Ser
          100          105          110
Ser Ser Ser Met Pro Ser Thr Ser Ser Ser Ser Ser Ser Ser Ser
          115          120          125
Ser Ser Ile Ser Ser Ser Ser Ser Leu Ser Ser Pro Cys Ser Ser Ser
          130          135          140
Tyr Ser Ala Ala Arg Ala Arg Ala Glu Ala Ser Arg Ala Ala Ile Gly
145          150          155          160
Phe Asp Glu Ser Arg Ser Ser Ser Ser Ile Ser Ser Ser Ile Ser Ser
          165          170          175
Ser Ser Ile Ile Ala Leu Gly Thr Asp Pro Pro Ser Cys Asp Cys Cys
          180          185          190
Phe Ser Ala Ile Arg Arg Ala Arg Ala Ser Ser Leu Arg Arg Cys Cys
          195          200          205
Ser Ser Ala Phe Asn Leu Phe Phe Ser Ser Ile Ser
          210          215          220

```

<210> 32939

<211> 97

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (49), (57)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32939

```

Gly Ser Arg Gly Leu Glu His Ile Glu Ser Tyr Arg Tyr Ser Ile Gly
1          5          10          15
Arg Cys Tyr Tyr Leu Tyr Arg Ile Phe Trp Leu Leu Tyr Ser Arg Ser
          20          25          30
Leu Tyr Phe Gly Gln Leu Leu Arg Leu Thr His Cys Glu Arg Leu Cys
          35          40          45
Xaa Ser Ile Thr Phe Ser Arg Leu Xaa Ile Asn Phe Gln Leu Asn Met
          50          55          60
Ala His Ser Glu Gly Ser Phe Ser Ala Pro Pro Gln Ala His Thr Phe
65          70          75          80
Asp Gly Leu Leu Ser Asp Phe Asp Gly Thr Ile Val Asp Ser Thr Asp
          85          90          95
Gly

```

<210> 32940

<211> 126
 <212> PRT
 <213> A.fumigatus

<400> 32940

Ala	Trp	Thr	Pro	Arg	Pro	Ser	Ser	Pro	His	Pro	Thr	Ala	Glu	Gly	Val
1				5				10						15	
Ser	Ile	Pro	Ser	Ser	Cys	Met	Thr	Pro	Pro	Arg	Pro	Thr	Gly	Asn	Val
		20						25					30		
Ser	Thr	Arg	Pro	Thr	Leu	Ser	Thr	Asn	His	Arg	Pro	Gly	Thr	Gln	Ser
		35					40					45			
Asp	Asn	Val	Val	Gln	Thr	Asp	Val	Ser	Tyr	Ile	Glu	Gly	Arg	Ile	Pro
	50					55					60				
Lys	Glu	Tyr	Gly	Ser	Asp	Ala	Val	Glu	Ile	Pro	Gly	Ala	Arg	Thr	Leu
65				70						75					80
Leu	Asn	Ala	Leu	Asp	Glu	Ser	Gly	Ala	Arg	Trp	Gly	Val	Val	Thr	Ser
				85					90					95	
Gly	Thr	Arg	Ala	Leu	Val	Asp	Gly	Trp	Leu	Gly	Val	Leu	Asn	Leu	Lys
			100					105						110	
His	Pro	Lys	Val	Leu	Val	Val	Ala	Glu	Asp	Val	Glu	Leu	Gly		
		115					120					125			

<210> 32941
 <211> 253
 <212> PRT
 <213> A.fumigatus

<400> 32941

Gly	Asn	Glu	Asn	Pro	Arg	Arg	Arg	Leu	Leu	Ser	Ile	Ser	Ser	Ile	Asp
1			5					10						15	
Ser	Arg	Asn	Tyr	Ile	Leu	Gly	Leu	Ala	Asp	Pro	Gln	Arg	Pro	Gly	Ala
		20						25					30		
Ser	Pro	Asn	Asp	Ser	Lys	Arg	Val	Gln	Lys	Asn	Pro	Ala	Thr	Phe	Gln
		35					40					45			
Cys	Asn	Leu	Cys	Pro	Lys	Arg	Phe	Thr	Arg	Ala	Tyr	Asn	Leu	Arg	Ser
	50					55				60					
His	Leu	Arg	Thr	His	Thr	Asp	Glu	Arg	Pro	Phe	Val	Cys	Thr	Val	Cys
65					70					75					80
Gly	Lys	Ala	Phe	Ala	Arg	Gln	His	Asp	Arg	Lys	Arg	His	Glu	Gly	Leu
			85					90						95	
His	Ser	Gly	Glu	Lys	Lys	Phe	Val	Cys	Gln	Gly	Glu	Leu	Ser	Arg	Gly
		100						105					110		
Gly	Gln	Trp	Gly	Cys	Gly	Arg	Arg	Phe	Ala	Arg	Ala	Asp	Ala	Leu	Gly
		115					120					125			
Arg	His	Phe	Arg	Ser	Glu	Ala	Gly	Arg	Ile	Cys	Ile	Lys	Pro	Leu	Leu
	130					135					140				
Asp	Glu	Glu	Ser	Gln	Glu	Arg	Glu	Arg	Ser	Leu	Met	Asp	Gln	Gln	Gln
145					150					155					160
His	His	Leu	Gln	Pro	Leu	Pro	Gln	Gln	Val	Met	Val	Pro	Val	Asp	Asn
			165					170						175	
Pro	His	Ala	Gly	Asn	Phe	Val	Leu	Pro	Ala	Ala	Leu	Leu	Ala	Gln	Tyr
		180						185					190		
Pro	Ala	Leu	Gln	Thr	Leu	Gln	Trp	Asp	Gln	Ile	Ala	Ala	Ser	Ala	Asp
		195					200					205			
Asp	Pro	Ser	Asp	Ile	Gly	Gly	Arg	Ser	Ser	Phe	Asp	Ala	Ser	Ser	Gly
		210					215					220			

13036

Asn Glu Phe Gly Phe Glu Asp Asp Asp Ser Gly Leu Ser Ser Val Ser
 225 230 235 240
 Gly Ile Asn Ala Gly Tyr Ser Ala Ala Gly Asn Phe Tyr
 245 250

<210> 32942
 <211> 220
 <212> PRT
 <213> A.fumigatus

<400> 32942
 Ile Arg Pro Ile Pro Cys Arg Ile Arg Thr Ser Lys Gly Asn Pro Gly
 1 5 10 15
 Thr Pro Ser Ser Phe Tyr Ile Ala Pro Ile Arg Ala Gly Glu Lys Pro
 20 25 30
 Thr Arg Gly Pro Gly Phe Gly Ser Thr Val Ser Phe Ser Glu Arg Glu
 35 40 45
 Glu Glu Pro His Leu Gly Gly Pro Pro Pro Ser Gln Asn Trp Ser Leu
 50 55 60
 Met Gly Ser Val Ile His Ser Ser Pro Val Glu Thr His Ile Tyr Asn
 65 70 75 80
 Leu Arg Leu Leu Ala His Glu Leu Arg Ile Arg Asp His Thr Thr Phe
 85 90 95
 Val Cys Asp Ala Ser Trp Pro Thr Ile Leu Ser His Leu Arg Ser Ala
 100 105 110
 Ser Val Gly Val Asn Ala Met Trp Asn Glu His Phe Gly Ile Cys Val
 115 120 125
 Val Glu Tyr Gln Ala Ala Gly Leu Ile Ser Val Val His Asp Ser Gly
 130 135 140
 Gly Pro Arg Glu Asp Ile Val Ile Asp Leu Gly Asp Gly Ala Thr Gly
 145 150 155 160
 Phe Arg Ala Ser Ser Glu Asp Glu Phe Ala Ala Phe Glu Ala Ala
 165 170 175
 Leu Ala Leu Pro Ala Glu Glu Lys Val Ala Met Arg Gln Arg Ala Arg
 180 185 190
 Lys Ser Ala Leu Arg Phe Thr Glu Glu Glu Phe Ser Gln Lys Trp Ile
 195 200 205
 Glu Glu Val Gly Lys Leu Val Glu Ile Cys Arg Arg
 210 215 220

<210> 32943
 <211> 241
 <212> PRT
 <213> A.fumigatus

<400> 32943
 Ala Thr Pro Glu Asn Tyr Arg Arg Gly Arg Lys Glu Ser Thr Lys Leu
 1 5 10 15
 Ser Thr Ser Asp Ile Thr Phe Ser Gly Ser Phe Asn Pro Ser Gly Asn
 20 25 30
 Ala Tyr Leu Ser Val Tyr Gly Trp Thr Thr Asn Pro Leu Val Glu Tyr
 35 40 45
 Tyr Ile Leu Glu Asn Tyr Gly Ser Tyr Asn Pro Gly Ser Gly Met Thr
 50 55 60
 His Lys Gly Thr Val Thr Ser Asp Gly Ser Thr Tyr Asp Ile Tyr Glu
 65 70 75 80

His Gln Gln Val Asn Gln Pro Ser Ile Val Gly Thr Ala Thr Phe Asn
 85 90 95
 Gln Tyr Trp Ser Ile Arg Gln Asn Lys Arg Ser Ser Gly Thr Val Thr
 100 105 110
 Thr Ala Asn His Phe Lys Ala Trp Ala Ser Leu Gly Met Asn Leu Gly
 115 120 125
 Thr His Asn Tyr Gln Ile Val Ser Thr Glu Gly Tyr Glu Ser Ser Gly
 130 135 140
 Thr Ser Thr Ile Thr Val Ser Ser Gly Gly Ser Ser Ser Gly Gly Ser
 145 150 155 160
 Gly Gly Ser Ser Ser Thr Thr Ser Ser Gly Ser Ser Pro Thr Gly Gly
 165 170 175
 Ser Gly Ser Val Ser Leu Leu Pro Tyr Gly Cys Gly Phe Met Cys Ile
 180 185 190
 Leu Thr Val Ile Val Leu Cys Phe Val Gly Pro Val Arg Trp Asn Trp
 195 200 205
 Leu Val Trp Ser Tyr Leu Leu Phe Gly His Leu Pro Gly Phe Glu
 210 215 220
 Leu Val Leu Leu Pro Val Leu Val Val Pro Ser Cys Arg Val Ile Ser
 225 230 235 240
 Lys

<210> 32944

<211> 87

<212> PRT

<213> A.fumigatus

<400> 32944

Gln Gly Gly Phe Tyr Pro Leu Ile Ala Glu Gly Ile Phe Pro Trp Arg
 1 5 10 15
 Ile Ala Ser Val Trp Leu Ala Leu Leu Trp Ala Phe Ser Leu Gly Ala
 20 25 30
 Leu Ile Tyr Ser Leu Leu Gln Asn Gly Leu Thr Ser Ser Trp Val Phe
 35 40 45
 Gly Gln Leu Leu Pro Val Phe Met Ala Val Leu Pro Ile Val Ser Leu
 50 55 60
 Val Thr Ser Ile Ile Gly Asp Arg Ser Ala Glu Ser His Ser Asp Gly
 65 70 75 80
 Val His Leu His Phe Cys Val
 85

<210> 32945

<211> 109

<212> PRT

<213> A.fumigatus

<400> 32945

Gln Ala Ile Val Ala Leu Leu Leu Leu Gly Thr Tyr Arg Ile Asp Arg
 1 5 10 15
 Ala Thr Tyr Leu Ile Ile Tyr Glu Leu Glu Phe Pro Asp Gln Ala Asp
 20 25 30
 Cys Ala Asn Thr Glu His Ser Ala Ile Ser Ala Thr Gln Leu Gln Phe
 35 40 45
 Asn Leu Ser Ser His Ser Ala Leu Cys Ala Pro Ser Arg Gln Thr Asp
 50 55 60

13038

Trp Ile Gln Leu Trp Ala Leu Phe Gly Thr Ser Thr Gln Met Pro Asp
 65 70 75 80
 Ala Val His Asp Pro Val Pro Asn Ala Met Glu Cys Ser Thr Leu Ile
 85 90 95
 Ser Ile Cys Ser Thr Glu Lys Ala Ala Ser Arg Gln Ile
 100 105

<210> 32946

<211> 138

<212> PRT

<213> A.fumigatus

<400> 32946

Arg Leu Leu Pro Leu Pro Gly Phe Asp Val Val Tyr Pro Ala Asn Glu
 1 5 10 15
 Met Thr Ser Phe Tyr Lys Arg Phe Met Gly Ser Glu Gln Gly Gly Gly
 20 25 30
 Leu Asp Pro Phe Asp Met Arg Arg Lys Trp Lys Asp Ile Ser Leu Ser
 35 40 45
 Gly Gly Tyr Arg Lys Val Leu Ser Arg Met Gly Ala Asp Tyr Ser Val
 50 55 60
 His Val Lys Leu Tyr Ser Gln Asp Asp Glu Gln Phe Val Gln Thr Asp
 65 70 75 80
 Leu Asp Arg Leu Asn Gly Lys Glu Ala Ala Ile Glu Ser Asn Ala Asp
 85 90 95
 Ser Ala Asp Lys Ile Ala Val Ile Leu Lys Phe Gln Leu Gly Ser Ser
 100 105 110
 Gln Tyr Ala Thr Met Ala Leu Arg Glu Leu Met Lys Gly Arg Val Val
 115 120 125
 Ala Tyr Lys Pro Asp Phe Gly Gly Arg
 130 135

<210> 32947

<211> 225

<212> PRT

<213> A.fumigatus

<400> 32947

Ile Ile Arg Gly Ser Ala Cys Leu Ile Ile Ser Arg Lys Arg Glu Thr
 1 5 10 15
 Ala Thr Asp Arg Tyr Asn Arg Met Ile Asp Arg Glu Arg Pro Asn Phe
 20 25 30
 Leu Asp Ser Ala Asn Glu His Asn Ile Gln Pro Leu Ser Pro Gly Glu
 35 40 45
 Glu Gln Pro Ser Pro Trp Tyr Ser Glu Pro Val Ser Thr Ser Ser Gln
 50 55 60
 Thr Pro Leu Phe Gly Ser Asp Trp Thr Ala Thr Asn Val Gln Thr Ile
 65 70 75 80
 Ala Thr Thr Asn Glu Pro Thr Ser Leu Ala Ser Ser Ser Thr Thr Asn
 85 90 95
 Val Leu Ala Thr Thr Thr Ala Val Ile Ser Ser Ile Ser Ser Ser Thr
 100 105 110
 Gly Thr Ser Pro Gln Pro Gly Asp Ser Ser Ser Gly Ser Ser Asp Thr
 115 120 125
 Lys Thr Ile Ala Ile Ala Val Pro Val Ser Val Val Gly Ala Ala Leu
 130 135 140

13039

Leu Ile Gly Ala Leu Phe Leu Leu Leu Arg Arg Arg Arg Arg Lys Thr
 145 150 155 160
 Gln Gln Glu Asn Pro Ser Asp Leu Gln Val Asp Met Phe Gln Pro Thr
 165 170 175
 Arg Thr Asn Leu Cys Ser Gln Asn Asp Thr Pro Trp Asn Glu His Ala
 180 185 190
 Arg Ser His Glu Ile Phe Leu Arg Arg Ala Gly Ile Phe Phe Arg Pro
 195 200 205
 Arg Gln Met Ile Thr Phe Pro Phe Gly Gln His Ser Leu Ser Ile Ile
 210 215 220
 Lys
 225

<210> 32948
 <211> 168
 <212> PRT
 <213> A.fumigatus

<400> 32948
 Gln Ala Arg Pro Ala Trp Thr Pro Val Leu Asn Ala Pro Ser Trp Asn
 1 5 10 15
 Pro Ser Arg Pro Gly Pro Thr Ser Thr Pro Pro Leu Ser Val Ala Ala
 20 25 30
 Val Pro Ala Gly Thr Met Pro Ala Ile Ala Ser Thr Thr Thr Ser Arg
 35 40 45
 Ala Val Thr Gly Ala Pro Asn Gln Ser Pro Pro Thr Pro Pro Ala Lys
 50 55 60
 Arg Ser Lys Cys Ser Gly Ala Ser Thr Thr Thr Val Thr Thr Ala Ala
 65 70 75 80
 Cys Ser Ala Ile Ala Ser Val Arg Thr Arg Ala Ser Leu Thr Asn Cys
 85 90 95
 Trp Thr Arg Arg Thr Cys Gln Leu Arg Arg Arg Ser Lys Pro Arg Arg
 100 105 110
 Thr Ala Ser Lys Pro Ala Ser Cys Arg Ala Arg Met Ser Met Gly Arg
 115 120 125
 Ser Val Gly Thr Val Arg Thr Val Ser Arg Val Arg Pro Ala Gly Ala
 130 135 140
 Met Thr Gly Ser Pro Ala Met Gly Ser Arg Gln Arg Arg Asp Gln Ser
 145 150 155 160
 Val Arg Val Trp Ile Met Arg Arg
 165

<210> 32949
 <211> 193
 <212> PRT
 <213> A.fumigatus

<400> 32949
 Gln Ser Lys Gly Ala Ser Pro Leu Thr Ser Leu Glu Leu His Asp Pro
 1 5 10 15
 Lys Ala Ser Ile Glu Ile Thr Glu Cys Phe Leu Arg Trp Pro Ala Arg
 20 25 30
 Leu Arg Glu Ile Ser Leu Leu Ser Leu Cys Tyr Gly Pro Tyr Glu Ser
 35 40 45
 His Tyr Asp Ala Arg Ser Ile Gln Arg Leu Leu Ser Ile His Lys Asp
 50 55 60

13040

Trp Leu Gln Lys Ile Thr Leu Gly Pro Ile Pro Pro Gln Gly Glu Asp
 65 70 75 80
 Ile Pro Asp Leu Ser Asp Phe His Arg Leu Ser Asp Ile His Val Thr
 85 90 95
 Leu Tyr Asn Ser Ser Ser Asn Glu Arg Gln Thr Pro Asp Ala Ile Tyr
 100 105 110
 Lys Lys Leu Ala Ala Pro Asn Leu Arg Arg Leu Glu Ile Asp Leu Gly
 115 120 125
 Asn Glu Arg Gln Pro His Asp Gln Trp Val Ala Glu Phe Leu Ala Leu
 130 135 140
 Val Arg Arg Gly Arg Lys Gly Ser Pro Pro Gln Thr Cys Val Gln Trp
 145 150 155 160
 Val Asp Val Lys Phe Cys Arg Trp Gly Asp Leu Ala Leu Gly Leu Ala
 165 170 175
 Arg Arg Ser Ser Ile Asn Cys Glu Ser Val Arg Tyr His Ile Glu Ser
 180 185 190
 Leu

<210> 32950

<211> 236

<212> PRT

<213> A.fumigatus

<400> 32950

Glu Met Arg Tyr Ala Ser Thr Pro Thr Thr Phe Ser Leu Leu Gln Leu
 1 5 10 15
 Thr Ser Gln Ala Gly Val Asp Ser Cys Pro Glu Cys Ala Ile Leu Glu
 20 25 30
 Pro Val Ser Ser Trp Pro Asp Leu Asp Ser Ala Ala Val Ser Arg Ser
 35 40 45
 Gly Pro Cys Gly Tyr Asn Ala Arg Asp Ser Ile Asp Tyr Asn Gln Pro
 50 55 60
 Ser Ser Asn Trp Gly Thr Lys Pro Val Ala Thr Tyr Thr Ala Gly Gln
 65 70 75 80
 Glu Ile Glu Val Gln Trp Cys Val Asp His Asn Gly Asp His Gly Gly
 85 90 95
 Met Phe Ser Tyr Arg Ile Cys Gln Asp Gln Ser Ile Val Asp Lys Leu
 100 105 110
 Leu Asp Ala Ser Tyr Leu Pro Thr Gln Ala Glu Lys Gln Ala Ala Glu
 115 120 125
 Asp Cys Phe Glu Ala Gly Leu Leu Pro Cys Thr Asp Val Asn Gly Gln
 130 135 140
 Glu Cys Gly Tyr Ser Ala Asp Cys Val Glu Gly Gln Ala Cys Trp Arg
 145 150 155 160
 Asn Asp Trp Phe Thr Cys Asn Gly Phe Gln Ala Ala Glu Arg Pro Lys
 165 170 175
 Cys Gln Gly Val Asp Asn Ala Ala Leu Asn Ser Cys Tyr Thr Ser Ile
 180 185 190
 Ala Gly Gly Tyr Thr Val Thr Lys Lys Val Lys Ile Pro Asp Tyr Val
 195 200 205
 Ser Asn His Thr Leu Leu Ser Phe Lys Trp Asn Ser Phe Gln Thr Gly
 210 215 220
 Gln Ile Tyr Leu Ser Cys Ala Asp Ile Ser Ile Ser
 225 230 235

<210> 32951
 <211> 129
 <212> PRT
 <213> A.fumigatus

<400> 32951

Lys	Arg	Pro	Phe	Ile	Leu	Gly	Lys	His	Ile	Thr	Glu	Val	Asp	Leu	Arg
1				5					10					15	
Ala	Tyr	Thr	Thr	Ile	Ile	Arg	Phe	Asp	Pro	Ile	Tyr	Val	Gln	His	Cys
			20					25					30		
Lys	Cys	Asn	Leu	Gly	Thr	Ile	Arg	Gln	Asn	Tyr	Pro	Thr	Ile	Asn	Asn
		35					40					45			
Trp	Leu	Lys	His	Leu	Tyr	Tyr	Asn	Val	Glu	Gly	Phe	Arg	Glu	Ser	Thr
	50					55					60				
Asn	Phe	Lys	His	Ile	Lys	Glu	Ser	Cys	Lys	Tyr	Arg	Ser	Arg	Gly	Leu
65					70					75					80
Ile	Ile	Leu	Cys	Arg	Leu	Thr	Cys	Ile	Asp	Pro	Lys	Asn	Gln	Ala	Asp
				85					90					95	
Ile	Asn	Pro	Lys	Gly	Ile	Val	Pro	Met	Gly	Pro	Ile	Pro	Asp	Ile	Glu
			100					105					110		
Ser	Gly	Val	Asp	His	Asn	Trp	Gly	Leu	Val	Arg	Val	Gly	Ser	Ile	Tyr
		115					120					125			
Val															

<210> 32952
 <211> 618
 <212> PRT
 <213> A.fumigatus

<400> 32952

Leu	Trp	Lys	Met	Lys	Tyr	Thr	Asn	Ser	Met	Phe	Lys	Gln	Arg	Ile	Glu
1				5					10					15	
Asn	Val	Tyr	Leu	Gln	Lys	Leu	Gly	Pro	Lys	Cys	Gly	Ser	Ala	Phe	Leu
			20					25					30		
His	Val	Val	Gln	Leu	Cys	Leu	Asp	Ala	Pro	Asn	Phe	His	Leu	Ser	Thr
			35				40					45			
Gln	Pro	Phe	Glu	Asp	Phe	Asn	Leu	Arg	Val	Pro	Gln	Thr	Tyr	His	Tyr
	50					55					60				
Pro	Val	Leu	Asp	Leu	Ser	Ala	Pro	Asp	Ser	Ile	Phe	Ser	Phe	Ser	Met
65					70					75					80
Asn	Phe	Leu	Tyr	Thr	Met	Cys	Lys	Ile	Val	Trp	Ser	Cys	Cys	Arg	Ile
				85					90					95	
Asp	Ile	Phe	Ser	Ala	Pro	Ala	Ala	Glu	Glu	Leu	Asp	Asp	Cys	Leu	Pro
			100					105					110		
Leu	Ala	Leu	Val	Pro	Arg	Thr	Glu	Thr	Lys	His	Val	His	Lys	Ser	Pro
		115					120					125			
Gln	Glu	Tyr	Glu	Pro	Glu	Pro	Gln	Arg	Leu	Thr	Arg	Arg	Asn	Gly	Ser
	130					135					140				
Tyr	Pro	Ala	Leu	Pro	Val	Gln	Glu	Met	Arg	Val	Leu	Arg	Glu	Lys	Met
145					150					155					160
Gly	Leu	Glu	Glu	Arg	Lys	Ala	Lys	Lys	Arg	Thr	Phe	Lys	Lys	Leu	Thr
				165					170					175	
Asn	Val	Glu	Ile	Pro	Gln	Asp	His	Leu	Asn	Glu	Trp	Asn	Phe	Gln	Met
			180					185					190		
Leu	Pro	Arg	Leu	Arg	Lys	Leu	Leu	Gln	Lys	Val	Leu	Lys	Asp	Ser	Ser

195					200					205					
Glu	Ser	Cys	Gly	Val	Thr	Leu	Met	Met	Thr	Gly	Asp	Ser	Ala	Glu	Thr
210					215					220					
Ala	Lys	Thr	Thr	Ile	Cys	Val	Thr	Cys	Ala	Ser	Ala	Lys	Lys	Val	Arg
225					230					235					
Ala	Ala	Leu	Lys	Lys	Tyr	Phe	Val	Leu	Asp	Asp	Arg	Glu	Asp	Trp	Asp
245					250					255					
Ile	Ile	Val	Leu	Arg	Gly	Asp	Ile	Gln	Arg	Ser	Lys	Val	Pro	Arg	Lys
260					265					270					
Lys	Arg	Arg	Arg	Pro	Ala	Lys	Ser	Arg	Ser	Gln	Thr	Ala	Gly	Thr	Pro
275					280					285					
Ala	Phe	Pro	Glu	Arg	Asp	Leu	Asn	Pro	Cys	Tyr	Gln	Pro	Arg	Pro	Leu
290					295					300					
Cys	Gly	Ala	Ser	Ile	Gly	Ala	Phe	Gln	Asn	Asp	Glu	His	Leu	Pro	Pro
305					310					315					
Val	Ser	Tyr	Gly	Gly	Ala	Ile	Leu	Val	Asp	Gly	Met	Pro	Tyr	Gly	Met
325					330					335					
Thr	Val	His	His	Met	Leu	Glu	Ala	Pro	Ser	Asp	Asp	Glu	Ala	Glu	Glu
340					345					350					
Glu	Val	Val	Glu	Asn	Arg	Asn	Val	Gly	Gly	Pro	Phe	Arg	Ser	Ala	Gly
355					360					365					
Asn	Trp	His	Gly	Glu	Ser	Ala	Pro	Ser	Asn	Asn	Asp	Phe	Met	Tyr	Thr
370					375					380					
Trp	Cys	Asp	Glu	Asp	Pro	Ser	Glu	Val	Asp	Leu	Glu	Phe	Glu	Ile	Ser
385					390					395					
Glu	Asp	Glu	Asp	Gly	Asp	Asp	Ile	Ser	Leu	Ser	Arg	Ser	Leu	Glu	Gly
405					410					415					
Thr	Tyr	Asp	Asp	His	Trp	Leu	Ser	Asp	Thr	Tyr	Ser	Ser	Asp	Glu	Glu
420					425					430					
Gly	Phe	Asp	Val	Asp	Asp	Pro	Tyr	Glu	Asp	Glu	Asp	Ala	Ala	Ser	Ile
435					440					445					
Gly	Asp	Thr	Ala	Gly	Val	Glu	Pro	Gly	Asp	Glu	Pro	Pro	Leu	Phe	Val
450					455					460					
Thr	Gln	Pro	Ala	Ile	Asp	Asp	Val	His	Glu	Asp	Phe	Phe	Pro	Ser	Pro
465					470					475					
Glu	Asp	Arg	Asp	Asp	Glu	His	Leu	Ala	Ser	His	Ser	Leu	Gly	Phe	Val
485					490					495					
His	Ala	Ser	Ser	Gly	Val	Arg	Arg	Trp	Thr	Arg	Lys	Gly	Ile	Lys	His
500					505					510					
Glu	Ile	Asp	Trp	Ala	Leu	Ile	Lys	Ile	Asn	Asp	Asp	Arg	Leu	Asp	Ala
515					520					525					
Arg	Asn	Ile	Val	Phe	Asp	Lys	Thr	Pro	Pro	Ser	Ser	Arg	Gly	Leu	Pro
530					535					540					
Arg	Arg	Gly	Pro	Gly	Gly	Gln	Pro	Ser	Gln	Thr	Gly	Glu	Ala	Ile	Phe
545					550					555					
Leu	Asn	Asp	Val	Ala	Arg	Met	Glu	Glu	Leu	Gly	Gly	Leu	Lys	Val	His
565					570					575					
Cys	Cys	Gly	Arg	Thr	Ser	Gly	Leu	Gln	Ser	Gly	Gln	Ile	Ser	Arg	Ala
580					585					590					
Met	Thr	Ile	Val	Lys	Leu	His	Gly	Arg	Gln	Thr	Phe	Ser	Thr	Ser	Phe
595					600					605					
Cys	Val	Asp	Gly	Asn	Phe	Gly	Gly	Lys	Leu						
610					615										

<210> 32953

<211> 66

13043

<212> PRT

<213> A.fumigatus

<400> 32953

Gly	Ile	Ser	Phe	Leu	Leu	Tyr	Cys	Ile	Tyr	Thr	Leu	Pro	Leu	Pro	His
1				5					10					15	
Val	Phe	Asn	Asp	Tyr	Lys	Thr	Val	His	Gly	Asp	Ile	Tyr	Ile	Ser	Arg
		20					25						30		
Ala	Ser	Leu	Asp	Asp	Tyr	Glu	Thr	Arg	Ser	Pro	Phe	Ala	Thr	Leu	Asn
		35				40					45				
Lys	His	Lys	Ile	Tyr	Ile	Ile	Ile	Leu	Pro	Ser	Trp	Ala	Cys	Pro	Ile
	50					55					60				
Gly	Asp														
65															

<210> 32954

<211> 221

<212> PRT

<213> A.fumigatus

<400> 32954

Trp	Leu	Val	Val	His	Pro	Thr	Tyr	Gly	Arg	Ala	Pro	Phe	Val	Phe	Leu
1				5					10					15	
Arg	Asn	Pro	Ser	Pro	His	Gln	Glu	Pro	Ala	Leu	Lys	Asn	Ser	Arg	Pro
		20						25					30		
Lys	Met	Pro	Ala	Pro	Glu	Lys	Pro	Val	Pro	Phe	Leu	Phe	Thr	Cys	Arg
		35				40					45				
Phe	Ala	Gly	Gln	Leu	Leu	Ile	Leu	Thr	Asp	Arg	Ala	Asp	Arg	Met	Val
	50					55				60					
Ala	Lys	Asn	Ser	Ile	Arg	Lys	Ala	Leu	Thr	Trp	Lys	Asn	Ala	Arg	Arg
65					70				75					80	
Phe	Phe	Tyr	Gly	Gly	Val	Pro	Arg	Arg	Leu	Ser	Lys	Glu	Leu	Ile	Leu
			85					90						95	
Lys	Arg	Met	Ala	Ser	Val	Ala	Pro	Ala	Ala	Val	Ser	Gly	Glu	Ala	Thr
		100						105					110		
Gly	Ala	Ile	Pro	Ala	Thr	Gly	Leu	Val	Asp	Gly	Gln	Thr	Pro	Ser	Asn
		115					120					125			
Lys	Ser	Pro	Arg	Ala	Lys	His	Leu	Arg	Thr	Leu	His	Ser	Trp	Thr	Gly
	130					135					140				
Phe	Leu	Asp	Glu	Glu	Leu	Glu	His	Asp	Asp	Arg	Lys	Val	Ala	Met	Trp
145					150					155				160	
Tyr	Glu	Glu	Asn	Arg	Lys	Ala	Ile	Gln	Met	Lys	Ile	Glu	Ala	Leu	Lys
			165						170					175	
Thr	Asp	Ser	Val	Ala	Thr	Glu	Ile	Ala	Gln	Leu	Leu	Ile	Ser	Asn	Lys
		180						185					190		
Glu	Gly	Gly	Leu	Lys	Gly	Val	Gln	Gln	Val	Leu	Ser	Met	Leu	Pro	Val
	195					200						205			
Glu	Glu	Lys	Glu	Ala	Val	Leu	Lys	Tyr	Leu	Gly	Ser	Pro			
	210					215					220				

<210> 32955

<211> 133

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (71)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32955

```

Lys Gln Asp Pro Thr Leu Thr Arg Arg Leu Gly Leu Trp Ala Ser Phe
1           5           10           15
Ala Leu Pro Pro Ile Thr Pro Gly Asp Ser Pro Ser Pro Phe Ser Leu
          20           25           30
Phe Gln Ser Arg Thr Leu Thr Pro Asn Pro Thr Pro Gly Lys Thr Pro
          35           40           45
Phe Pro Ser Ser Arg Val Phe Ala Pro Arg Lys Pro Ser Ile Thr Val
          50           55           60
Leu Val Ser Cys Thr Pro Xaa Pro Arg Gly Pro Asn Pro Ile His Pro
65           70           75           80
Arg Leu Asn Ile Gln Leu Pro Pro Arg Pro Leu Arg Ile Leu Ala Ile
          85           90           95
Val Pro Pro Pro Pro Arg Arg His Val Pro Ala Arg Arg Ser Gln Arg
          100          105          110
Gln Pro Asp Trp Ala Ala Lys Ser Thr Pro Thr Cys Ala Ala Ala Ala
          115          120          125
Ser Asn Ser His Ser
          130

```

<210> 32956

<211> 174

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (46)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32956

```

Leu Gly Gly Lys Ile His Ala His Leu Arg Arg Ser Arg Phe Lys Leu
1           5           10           15
Pro Leu Met Ser Lys Cys Pro Leu Val Met Val Ala Ala Gly Thr Gly
          20           25           30
Leu Ala Pro Phe Arg Ala Phe Ile Ala Glu Arg Arg Gln Xaa Ser Leu
          35           40           45
Ile Gly Lys Glu Ile Gly Glu Met Ile Leu Phe Phe Gly Cys Arg Ala
          50           55           60
Pro Thr Gln Asp Phe Ile Tyr Lys Glu Glu Leu Glu Glu Leu Gln Ala
65           70           75           80
Ala Leu Gly Asp Lys Leu Arg Val Ile Thr Ala Phe Ser Arg Glu Val
          85           90           95
Gly Ser Gln Lys Val Tyr Val Gln Asp Arg Ile Ala Glu His Ala Ala
          100          105          110
Glu Val Ile Arg Leu Ile Asp Glu Gly Ala Ser Val Tyr Ile Cys Gly
          115          120          125
Arg Ala Gly Met Ala Arg Glu Val Glu Lys Thr Val Gly Glu Ala Met
          130          135          140
Arg Ala Ala Asn Arg Trp Ser Glu Thr Glu Leu Tyr Glu Trp Ser Thr
145          150          155          160
Ala Ile Lys Met Asn Asn Lys Trp His Glu Asp Val Trp Gly

```

165

170

<210> 32957
 <211> 144
 <212> PRT
 <213> A.fumigatus

<400> 32957

```

Ser Cys Met Lys Pro Leu His Asp Thr His Arg Ile Val Phe Ser Leu
1          5          10          15
Pro Ala Ser Met Thr Ala Val Ile Ser Gly Met Val Ile Pro Glu Lys
          20          25          30
Ser Ala Met Ile Ile Val Ala Ala Leu Gln Ala Tyr Leu Phe Leu Pro
          35          40          45
Pro Pro Ser Pro Leu Thr Phe Phe Leu Met Pro Pro Gly Lys Ala Asp
          50          55          60
Glu Arg Leu Phe Ser Trp Ser Ser Ala Gly His Pro Pro Thr His Pro
65          70          75          80
Ala Pro Pro Pro Pro Pro Pro Pro Arg Thr Met Gly Phe Glu Glu Asn
          85          90          95
Arg Val Gly Pro Glu Asn Glu Phe Ser Ala Leu Pro Ala Thr Pro His
          100          105          110
Pro His Pro Pro Ala Val Pro Pro Pro Pro Pro Pro Pro His Pro Pro
          115          120          125
Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Gln Pro Ala Pro Leu
          130          135          140

```

<210> 32958
 <211> 96
 <212> PRT
 <213> A.fumigatus

<400> 32958

```

Ser Leu Leu Thr Ser Gln Val Ser Pro Ser Arg Ile Ser Gln Gln Ser
1          5          10          15
Ser Thr Leu Ala Arg Lys Arg Arg Cys Gly Gly Tyr His Ala Ala Val
          20          25          30
Ser Cys Lys Thr Met Leu Thr His Phe Arg Phe Asp Glu Arg Arg Gln
          35          40          45
Leu Ser Arg Leu Val Glu Ala Phe Ile Ser Arg Ala Asn Ala Lys Gln
          50          55          60
Arg Arg Gly Arg Ala Gly Arg Val Gln Ser Gly Ile Cys Phe His Leu
65          70          75          80
Phe Thr Lys His Arg His Asp Lys Leu Val Cys Pro Asn Ser Cys His
          85          90          95

```

<210> 32959
 <211> 134
 <212> PRT
 <213> A.fumigatus

<400> 32959

```

Lys Phe Thr Gln Arg Arg Ala Arg Ser Gly Gly Arg Gln Arg Gln Phe
1          5          10          15
Phe Thr Ile Pro Glu Asp Tyr Asp Thr Asn Ser Ser Asn Asp Val Val
          20          25          30

```

13046

```

Val Asn Ser Val Ile Ala Trp Ser Phe Tyr Pro Lys Leu Leu Thr Arg
      35              40              45
Glu Gly Lys Gly Trp Arg Asn Val Ala Asn Asn Gln Ser Val Thr Leu
      50              55              60
His Pro Thr Ser Val Asn Lys His Ala Asp Ala Ser Leu Lys Trp Leu
      65              70              75              80
Ser Tyr Tyr His Ile Met Gln Ala Arg Asn Arg Asn Tyr Asn Ala Phe
              85              90              95
Glu Thr Asn Ala Val Asp Asp Phe Ala Ile Ala Leu Leu Cys Gly Glu
              100              105              110
Ala Glu Phe Lys Val Arg Ala His Cys Pro Pro Phe Tyr Ser Phe Ala
              115              120              125
Lys Ile Arg Ile Leu Ile
      130

```

<210> 32960

<211> 76

<212> PRT

<213> A.fumigatus

<400> 32960

```

Thr Gln Met Tyr Ser Gly Ile Ile Ser Ile Asp Ala Asn Arg Ile Arg
1              5              10              15
Phe Ala Val Arg Asp Trp Lys Ala Met Leu Ala Leu Lys Ile Leu Ser
              20              25              30
Ala Arg Ile Arg Glu Ile Leu Ala Gly Thr Val Arg Asp Pro Gln Lys
              35              40              45
Val Leu Ser Tyr Lys Gln Gln Gln Trp Val Gly Ile Trp Gln Gln Ile
              50              55              60
Phe Ser Gln Ala Trp Lys Arg Met Ala Glu Lys Arg
              65              70              75

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<210> 32961

<211> 196

<212> PRT

<213> A.fumigatus

<400> 32961

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His Ile Leu Gly Leu Thr Lys Asp Asp Asn Phe Gln Gly Ser Trp Arg
1              5              10              15
Pro Leu Ser Arg Val Arg Met Gln Ser Asn Ala Glu Glu Glu Leu Asp
              20              25              30
Gly Cys Arg Ala Val Ser Val Ser Thr Cys Leu Pro Ser Ile Asp Met
              35              40              45
Ile Asn Trp Tyr Val Gln Ile Pro Val Ile Ser Pro Leu Ile Leu Thr
              50              55              60
Ser Ser Gln Leu Ala Glu Gln Gln Thr Pro Glu Met Leu Arg Leu Ser
              65              70              75              80
Leu Gln Asp Leu Val Leu Arg Val Lys Ile Cys Lys Leu Gly Glu Val
              85              90              95
Glu Gln Thr Leu Leu Glu Ala Leu Asp Pro Pro Ser Ser Lys Asn Ile
              100              105              110
Arg Arg Ala Ile Asp Ser Leu Lys Glu Val Lys Ala Leu Thr Asn Ser
              115              120              125
Glu Ser Leu Thr Pro Leu Gly Met Gln Leu Ala Lys Leu Pro Leu Asp
              130              135              140

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13047

Val Phe Leu Gly Lys Leu Ile Ile His Gly Val Phe Phe Lys Cys Leu
 145 150 155 160
 Asp Ala Cys Ile Ser Ile Ala Ala Ile Leu Ser Ser Lys Ser Pro Phe
 165 170 175
 Val Asn Thr Met Gly Ser Gln Gln Pro Glu Arg Ser Cys Glu Ala Ile
 180 185 190
 Ile Gln Glu Gly
 195

<210> 32962
 <211> 83
 <212> PRT
 <213> A.fumigatus

<400> 32962
 Val Gly Gly Trp Pro Ala Glu Asp Gln Glu Lys Ser Leu Ser Ser Ala
 1 5 10 15
 Phe Pro Gly Gly Met Arg Lys Asn Val Arg Gly Asp Gly Gly Gly Arg
 20 25 30
 Asn Arg Tyr Ala Cys Lys Ala Ala Thr Ile Ile Ile Ala Asp Phe Ser
 35 40 45
 Gly Ile Thr Ile Pro Asp Ile Thr Ala Val Ile Asp Ala Gly Lys Glu
 50 55 60
 Lys Thr Met Arg Trp Val Ser Cys Ser Gly Phe Met Gln Asp Tyr Ala
 65 70 75 80
 Asp Thr Phe

<210> 32963
 <211> 69
 <212> PRT
 <213> A.fumigatus

<400> 32963
 Met Leu Arg Met Ser Arg Leu Ser Leu Tyr Leu Glu Ala Gly Gly Thr
 1 5 10 15
 Ile Gln Asn Ser Ser Ala Ser Asp Phe Leu Ser Phe Leu Pro Ile Phe
 20 25 30
 Leu Pro Pro Lys Phe Ser Ser Phe Leu Phe Ser Phe Phe Phe Val Pro
 35 40 45
 Phe Phe Leu Phe Phe Lys Ser Gly Ala Ser Phe Ile Arg Asp Gly Thr
 50 55 60
 Ser Pro Val Thr Ile
 65

<210> 32964
 <211> 335
 <212> PRT
 <213> A.fumigatus

<400> 32964
 Pro Gln Ser Leu Ser Glu Leu Arg Ser Leu Ile Glu Asp Pro Glu Thr
 1 5 10 15
 Asp Asp Glu Leu Arg Ser Leu Ala Leu Glu Asp Leu Lys Ser Ser Asp
 20 25 30
 Arg Thr Leu Pro Ala Ile Ser Lys Thr Leu Lys Asn Ala Leu Val Pro

Thr	Pro	Lys	Gly	Gly	Gly	Glu	Ser	Gln	Asn	Thr	Leu	Lys	Ser	Gln	Pro
1				5					10					15	
Leu	Val	Leu	Lys	Gln	Trp	Lys	Val	Cys	Thr	Ile	Xaa	Lys	Lys	Thr	Leu
			20					25					30		
Glu	Lys	Thr	Asn	Ile	Asn	Gly	Asn	Gly	Ile	Arg	Pro	Phe	Thr	Lys	Ser
			35				40					45			
Asn	Glu	Ser	Leu	Glu	Gly	Ile	Gly	Xaa	Lys	Lys	Xaa	Pro	Leu	Ser	Phe

13049

50		55		60
Asn Gln Phe Phe Leu Thr Val Lys Asn Asn Ser Lys Asn Leu Leu Ser				
65		70		75
				80

<210> 32966
 <211> 87
 <212> PRT
 <213> A.fumigatus

<400> 32966

Ser Asn Cys Ala Val Ala Lys Thr Arg Ser Gln Leu Asn Arg Arg Leu				
1	5	10	15	
Pro Asp Ala Lys Lys Leu Pro Trp Pro Phe Gly Ile Gln Trp Tyr				
20	25	30		
Ala Gly Cys Thr Thr Leu Ile Ile Gly Asn Ser Leu Lys Ala Gly Ile				
35	40	45		
Arg Lys Phe His Leu Val Val Leu Arg Tyr His Cys Pro Asn Phe Leu				
50	55	60		
Ile Glu Thr His Ala Arg Ile Leu Val Arg Leu Arg Cys Leu Arg His				
65	70	75		80
Leu Gln Ile Ser Thr Ser Gly				
	85			

<210> 32967
 <211> 82
 <212> PRT
 <213> A.fumigatus

<400> 32967

Gly Phe Val Ala Phe Asp Thr Phe Lys Ser Leu Leu Gln Asp Glu Asn				
1	5	10	15	
Gly Asn Ile Ser Gly Pro Arg Thr Val Ile Ala Gly Phe Gly Ala Gly				
20	25	30		
Phe Thr Glu Ser Leu Leu Ala Val Thr Pro Phe Glu Ser Ile Lys Thr				
35	40	45		
Gln Leu Phe Val Val Thr Phe Ile Glu Tyr Pro Thr Pro Ser Ser Asn				
50	55	60		
Tyr Leu Gly His Lys Leu Leu Pro Gly Cys Ala Val Gln Leu Thr His				
65	70	75		80
Gly Tyr				

<210> 32968
 <211> 84
 <212> PRT
 <213> A.fumigatus

<400> 32968

His Thr Gly Ile Arg Ile Asp Asp Arg Lys Ser Pro Asn Pro Arg Met				
1	5	10	15	
Arg Gly Phe Leu His Gly Ser Lys Ile Ile Phe Gln Glu Arg Gly Leu				
20	25	30		
Arg Gly Phe Phe Gln Gly Phe Val Pro Thr Thr Ala Arg Gln Ala Ala				
35	40	45		
Asn Ser Ala Thr Arg Phe Ser Ser Tyr Thr Met Leu Lys Gln Leu Ala				
50	55	60		

13050

Gln Gly Tyr Val Ala Pro Gly Glu Lys Leu Gly Thr Ala Ser Thr Phe
65 70 75 80
Ala Leu Gly Gly

<210> 32969
<211> 88
<212> PRT
<213> A.fumigatus

<400> 32969
Ala Phe Gln Asn Leu Lys Phe Ser Pro Ile Asp Trp Tyr Leu Ala Leu
1 5 10 15
Ser Arg Met Gln Ser Leu Glu Ala Ser Lys Asn Tyr Lys Asn Ser Phe
20 25 30
Val Cys Ala Ala Arg Ile Phe Lys Asp Glu Gly Leu Leu Thr Phe Trp
35 40 45
Ser Gly Ala Val Pro Arg Leu Ala Arg Leu Ile Met Ser Gly Gly Ile
50 55 60
Val Phe Thr Met Phe Val Gly Ile Arg Pro Ser Arg Pro His Phe Arg
65 70 75 80
Val Leu Ile His His Asn Gln Val
85

<210> 32970
<211> 83
<212> PRT
<213> A.fumigatus

<400> 32970
Arg Thr Thr Leu Leu Pro Asp Gly Ile Tyr Arg Ile Phe Cys Arg Tyr
1 5 10 15
Ser Cys Tyr Leu Leu Ile Ser Gln Pro Ser Ser Asp Thr Ile His Tyr
20 25 30
Ser Leu Lys Thr Phe Ala Ala Ile Lys Asn Ile Ile Gln Ile Val His
35 40 45
Cys Asn Ala Ala Thr Val Ile Ser Ala Thr Thr Leu Ser Ile Ile Val
50 55 60
Cys Ala Asp Leu Ile Thr Thr Ala His Pro Ser Asp Ala Ser Lys Asn
65 70 75 80
Thr Ser Ser

<210> 32971
<211> 247
<212> PRT
<213> A.fumigatus

<400> 32971
Arg Arg Ser Thr Arg His Ser Met Asp Ile His Lys Asp Ile Arg Thr
1 5 10 15
Gly Arg Leu Thr Ala Thr Gly Leu Gln Gln Tyr Leu Glu Thr His Gly
20 25 30
Ile Asn Asp Thr Asp Ser Lys Gly Trp Thr Leu Leu Ala Thr Ala Val
35 40 45
Arg Ala Gly His Leu Lys Met Val Glu Leu Leu Leu Lys Gln His Ala

13051

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      50              55              60
Asp Pro Asn Thr Lys Ser His Gly Phe Ala Pro Ile His Leu Ala Val
65              70              75              80
Thr Ala Lys Ala Glu Arg Leu Gln Ile Ile Ser Leu Leu His Ser Ala
      85              90              95
Lys Ala Asp Leu Asn Ala Gln Asp Pro Asp Gly Asn Thr Ala Ile Ile
      100              105              110
Ser Ala Ile Glu Gln Thr Gln Asp Asp Lys Val Ile Arg Leu Leu Arg
      115              120              125
Arg Leu Gly Ala Asn Leu Asp Ala Gln Gly Arg Ser Gly Lys Thr Ala
      130              135              140
Lys Gln Leu Ala Glu Ser Ser Asn Asn Met Leu Val Arg Gln Ala Val
      145              150              155              160
Gln Pro Asp Arg Pro Ile Leu Asp Arg Leu Arg Thr Val Thr Trp Ile
      165              170              175
Val Asn Val Val Val Gly Ala Phe Arg Tyr Val Val Arg Thr Phe Ile
      180              185              190
Gln Lys Pro Val Tyr Lys Ile Phe Asp Val Phe Lys Gly Arg Arg Gln
      195              200              205
Ala Pro Pro Gln Pro Ala Gln Ala Gly Pro Val Gly Thr Asp Ala Asp
      210              215              220
Phe Ala Asp Ala Ser Lys Pro Pro Pro Pro Pro Pro Pro Cys Pro Ser
      225              230              235              240
Glu Ser Leu Glu Ile Arg Leu
      245

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<210> 32972

<211> 141

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (137)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32972

```

Arg Arg Phe Gln Ala Ile Lys His Pro Gln Thr Glu Ala Gly Phe Lys
1              5              10              15
Lys Ser Leu Asp Ser Tyr Ile Glu Asp Ser Cys Leu Asp Lys Phe Phe
      20              25              30
Ser Pro Gly Ser Lys Phe Leu Gln Glu Val Ser Gln Lys Ala Ala Lys
      35              40              45
Leu Lys Asp Asp Pro Arg Asn Lys Tyr Lys Pro Asp Gln Ile Lys Asp
      50              55              60
Leu Thr Arg Val Ala Leu Tyr Gln Pro Val Leu Tyr Cys Gly Arg Tyr
      65              70              75              80
Tyr Pro Pro Arg Thr Thr Thr His Thr Arg Arg Pro Gly Ala Pro Ala
      85              90              95
Asn Pro Gln Gln Thr Thr Ala Arg Arg Cys Glu Arg Lys Cys Gly Gly
      100              105              110
Arg Leu Ser Gly Ser Leu Ser Ser Ala Ser Gln Thr Ser Pro Pro Asn
      115              120              125
Trp Ser Val Pro Thr Arg Ala Phe Xaa Tyr Ala Cys Leu
      130              135              140

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<210> 32973
 <211> 148
 <212> PRT
 <213> A.fumigatus

<400> 32973

```

Leu Leu Ala Lys Gln Ile Leu Leu Leu Ser Val Lys Asp Asn Asp Leu
1      5      10      15
Leu Asn Cys His Arg Phe Gln Pro His Ser Glu Glu Glu Arg Trp Ile
      20      25      30
Glu His Pro Leu Asp Thr Thr Glu Pro Ile Ile Leu His Lys Gln Ser
      35      40      45
Lys Met Thr Ser Val Ser Leu Val Ser Gly Ala His Val Phe Phe Gln
      50      55      60
Val Pro Ser Gly Ala Leu Val Asp Leu Gln Tyr Gln His Asp Thr Asn
      65      70      75      80
Arg Trp Thr Ala Gln Ile Met Arg Thr Gln Val Thr Val Gln Pro Gly
      85      90      95
Ser Pro Leu Cys Ala Ile Gln Gly Pro Ser Ser Val Ser Leu Phe Phe
      100      105      110
Val Gly Asp Asn Asn Cys Ile Tyr Tyr Val Thr Arg Ser Thr Val Gln
      115      120      125
Asp Ala Ser Glu Trp Glu Gly Asn Phe Val Ser Phe Leu Phe Pro Ser
      130      135      140
Phe Ser Met Ile
145

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<210> 32974
 <211> 229
 <212> PRT
 <213> A.fumigatus

<400> 32974

```

Pro Ile Cys Phe Thr Leu Pro Pro Leu Lys Asp Val Leu Thr Ala Pro
1      5      10      15
Ala Ala Gln Ala Leu Pro Tyr Ile Phe His Arg Val Met Gly Ser Pro
      20      25      30
Gly Gly Ala Leu Ala Leu Thr Thr Leu Val Leu Val Ile Thr Leu Phe
      35      40      45
Cys Ser Ile Ser Ile Thr Val Ala Ala Ser Arg Ser Thr Trp Ala Phe
      50      55      60
Ala Arg Asp Asp Ala Ile Pro Leu Ala Ser Leu Trp Ala Arg Val Asp
      65      70      75      80
Pro Arg Leu Gly Val Pro Val Trp Ser Leu Leu Leu Leu Thr Val Ile
      85      90      95
Gln Met Leu Leu Gly Leu Ile Asn Leu Gly Ser Ser Ser Ala Phe Thr
      100      105      110
Ala Phe Val Ser Val Gly Val Ile Ala Leu Ala Val Ala Tyr Ala Ile
      115      120      125
Pro Ile Phe Leu Ser Leu Arg His Gly Arg Thr Glu Val Ser Lys Ala
      130      135      140
Leu Trp Asn Cys Gly Pro Val Val Gly Pro Ile Val Asn Ile Val Ala
      145      150      155      160
Leu Cys Trp Ile Gly Phe Glu Leu Val Leu Phe Ser Met Pro Thr Val
      165      170      175
Leu Pro Val Thr Arg Val Ser Met Asn Tyr Ala Ser Val Val Phe Val

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13053

180 185 190
 Gly Phe Leu Ala Ile Ala Ala Ala Trp Tyr Ala Val Tyr Ala Arg Lys
 195 200 205
 Cys Glu Phe Ala Val Cys Phe Ala Tyr Leu Trp Asp Val Cys Ser Phe
 210 215 220
 Val Val Arg Ser Leu
 225

<210> 32975
 <211> 73
 <212> PRT
 <213> A.fumigatus

<400> 32975
 Ile Leu Met Arg Gly Cys Ala Thr Pro Val Val Lys Ile Leu Asp Ala
 1 5 10 15
 Gly Val Leu Glu Cys Val Arg Ala Asn Leu Gly Asp Leu Thr Phe
 20 25 30
 Glu Glu Ala Tyr Ala Arg Ser Lys Arg Ile Leu Asn Ile Thr Ile Ala
 35 40 45
 Thr Ser Gly Lys Asn Gly Thr Pro Asn Leu Leu Asn Tyr Leu Thr Ala
 50 55 60
 Pro Asn Val Val Ser Thr Phe Asn Ala
 65 70

<210> 32976
 <211> 251
 <212> PRT
 <213> A.fumigatus

<400> 32976
 Leu Ile Trp Ser Ala Ala Val Ala Ser Asn Ala Ser Thr Gly Ser Leu
 1 5 10 15
 Tyr Gln Pro Val Thr Val Tyr Cys Lys Asp Glu Thr Gly Ser Ile Val
 20 25 30
 Pro Trp Pro His Ala Gln Asp Ala Thr Phe Gln Ser Trp Arg His Val
 35 40 45
 His Tyr Ser Asp Gly Glu Ser Pro Leu Ser Arg Ile Ala Glu Leu Phe
 50 55 60
 Asn Val Asn His Phe Ile Val Ser Gln Ala Arg Pro Tyr Leu Ile Pro
 65 70 75 80
 Phe Leu Gly Pro Asp Leu Ser Met Leu Asp Arg His Gln Thr Gly Gln
 85 90 95
 Trp Asn Ile Thr Arg Pro Leu Met Arg Leu Val Val Ala Glu Leu Arg
 100 105 110
 His Arg Leu Arg Gln Leu Asp Tyr Leu Gly Leu Leu Pro Gln Ile Ile
 115 120 125
 Gly Arg Leu Leu Ile Glu Glu Thr Ile Pro Gly Ser Asn Leu Thr Leu
 130 135 140
 Val Pro Asp Leu Ser Leu Ser Asp Phe Thr Lys Leu Leu Gln Asn Pro
 145 150 155 160
 Ser Lys Asp Asn Leu Ala Tyr Trp Ile Leu Lys Gly Glu Arg Gly Val
 165 170 175
 Trp Pro Ala Ile Ser Ala Leu Lys Val Arg Cys Val Val Glu Ile Glu
 180 185 190
 Leu Asp Lys Gly Tyr Gln Arg Val Arg Arg Arg Arg Pro Ser Glu Ser

13054

195	200	205
Val Ala Leu His Arg Arg Gly Pro Asn Glu Gly Val Pro Arg Arg Arg		
210	215	220
Arg Gly Tyr Ser Ile Asp Asn Gly Arg Asp Leu Ser Ser Leu Leu Gly		
225	230	235
Ser Ala Asp Tyr Gln Pro Asp Met Leu Asn Ser		240
245	250	

<210> 32977

<211> 187

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (182)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32977

Arg Val Val Tyr Arg Cys Cys Asn Gln Ile Ile Met Ala Val Arg Ser		
1	5	10
Arg Pro Ser Leu Arg Phe Ser Val Arg Arg Asp Asp Asn Ala Ser Gly		
20	25	30
His Asp Asp Asp Asp His Gln Asp Asn His Asp Asn Thr Leu Leu Ser		
35	40	45
Ser Pro Pro Pro Ala Lys Arg Pro Arg Leu Gln Gln Gln Gln Gln		
50	55	60
Gln Gln Gln Arg Arg Gln Pro Pro Ser Ser Arg Arg Arg Lys Ser Ser		
65	70	75
Pro Asp Leu Leu Asp Ala Thr Ile Glu Asn Ser Ser His Arg Ala Pro		
85	90	95
Pro Ser Ser Lys Pro Pro Gln Val Val Arg Pro Thr Ala His Ser Pro		
100	105	110
Val Pro Pro Pro Pro His Leu Ser Thr Arg Arg Pro Pro Ala Pro Ser		
115	120	125
Thr Ala Gly Asp Ser Val Ser Phe Ser Ser Ser Ser Ser Ser Ser Asn		
130	135	140
Ser Ala Cys Val Pro Leu Pro Gly Thr Pro His Thr Ala Gly Arg Ser		
145	150	155
His Glu His Arg His Thr Pro Leu Ser Ala Ser Ala Ala Leu Tyr Met		
165	170	175
His Gly Gly Gly Gly Xaa Asn Ser Pro Asp Leu		
180	185	

<210> 32978

<211> 71

<212> PRT

<213> A.fumigatus

<400> 32978

Arg Ile Arg Gly Gln Ser Ile Ser Asp Asp His Arg Gln Arg Gln Arg		
1	5	10
His Phe Leu Pro Ala Gly Ser Cys Lys Leu Gln Gln Tyr Pro Pro Pro		
20	25	30
Pro His Asn Glu Gly Lys Met Ser Asp Lys Ser Arg Glu Gly Phe Leu		
35	40	45

13055

Asn Leu Lys Asp Asp Ser Pro Ala Ala Phe Ile Gly Val Leu Ala Asp
 50 55 60
 Gln Lys Asp His Cys Phe Ser
 65 70

<210> 32979
 <211> 160
 <212> PRT
 <213> A.fumigatus

<400> 32979
 Pro Gln Thr Glu Gln Gln Glu Asp Asp Pro Ser Ser Pro Ala Tyr
 1 5 10 15
 Thr Cys Gln Pro Ser Pro Ser Ser Arg Thr Thr Arg Lys Ser Ile Ser
 20 25 30
 Pro Pro Ser Arg Asn Thr Pro Pro Thr Leu Pro Thr Pro Gly Ser Leu
 35 40 45
 Ala Ser Ser Ser Lys Ala Ala Thr Ala Lys Pro Cys Ile Ser Thr Val
 50 55 60
 Thr Asn Ala Asn Ser Leu His Arg Arg Pro Ala Ala Pro Ser Met Pro
 65 70 75 80
 Pro Glu Pro Pro Pro Cys Pro Ser Ser Ser Ala Val Ala His Leu Pro
 85 90 95
 Pro Ala Lys Thr Ser Ser Ser Ala Arg Thr Pro Pro Thr Pro Glu Asp
 100 105 110
 Asn Thr Ser Leu Ser Cys His Pro Gly Asn Asn Lys Phe Ser Arg Glu
 115 120 125
 Gln Ser Arg Pro Pro Pro Leu Thr Ser Ala Lys Phe Ala Ser Gly Ser
 130 135 140
 Ser Asp Ser Arg Pro Pro Ser Lys Ile Pro Arg Gly Pro Phe Arg Pro
 145 150 155 160

<210> 32980
 <211> 64
 <212> PRT
 <213> A.fumigatus

<400> 32980
 Trp Cys Leu Asn Ser Ser Cys Val Ala Gln Leu Ile Asp Ser Ile Ala
 1 5 10 15
 Ile Ala Pro Gly Met Glu Gly Glu Ser Asp Leu Phe Phe Cys Phe Val
 20 25 30
 Ala Leu Ser Ser Ser Ser Arg Ser Phe Phe Leu Phe Phe Ser Ala Val
 35 40 45
 Ala Ile Asn Tyr Arg Asp Val Val Trp Pro Asn Thr Gly Phe Ala Glu
 50 55 60

<210> 32981
 <211> 131
 <212> PRT
 <213> A.fumigatus

<400> 32981
 Asn His Leu Leu Thr Thr Thr Thr Glu Asn Asn Trp Tyr Thr Ala Thr
 1 5 10 15
 Asp Lys Met Thr Thr Asn Gly Thr Thr Thr Arg Arg Arg Pro Leu Val

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<210> 32982
<211> 84
<212> PRT
<213> A.fumigatus
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<210> 32983
<211> 80
<212> PRT
<213> A.fumigatus
```

```
<210> 32984
<211> 161
<212> PRT
<213> A.fumigatus
```

<400> 32984

```

Pro Lys Arg His Thr Met Thr Thr Ile Val Phe Val Pro Gly Ala Trp
1           5           10           15
Ile Thr Pro Glu Phe Tyr His Pro Phe Phe Asp Ala Leu Thr Lys Ala
20           25           30
Gly Cys Pro Val Arg Cys Ala Gly Tyr Pro Ser Leu Asp Pro Ala Asp
35           40           45
Pro Thr Ser Thr Asp Cys Lys Ala Asp Ser Asp Ala Ile Ala Ser Val
50           55           60
Ile Arg Pro Leu Val Glu Gly Glu Gly Arg Asp Val Leu Leu Val Met
65           70           75           80
His Ser Tyr Ala Gly Met Pro Gly Ala Ala Ala Lys Gly Leu Ala
85           90           95
Lys Thr Glu Arg Met Gln Gln Gly Lys Ser Gly Gly Ile Val Gly Leu
100          105          110
Val Phe Ile Ala Ala Phe Leu Val Pro Glu Gly Leu Ser Cys Ala Gly
115          120          125
Leu Gln Gly Gly Asn Leu Pro Pro Trp Ile Leu Met Asp Lys Val Leu
130          135          140
Pro Pro Leu Pro Pro Thr Trp Asp Glu Ser Asp Gln Met Ser Asn Ala
145          150          155          160
Leu

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<210> 32985

<211> 120

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (97), (105)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32985

```

Pro Tyr Asp Lys Val Asn Ile Pro Asp Asp Pro Val Gly Asn Phe Ala
1           5           10           15
Ala Asp Val Asp Glu Asp Val Ala Gln Ser Leu Glu Gly Ser Ile Arg
20           25           30
Pro His Ser Thr Val Ala Phe His Thr Pro Gln Pro Ala Pro Ala Trp
35           40           45
Ala Asp Pro Ala Tyr Ala Gly Arg Leu Ala Phe Ile Val Pro Thr Leu
50           55           60
Asp Lys Ala Ile Pro Glu Ala Ala Gln Arg Ala Met Ile Ala Ser Thr
65           70           75           80
Gln Thr Asp Trp Ile Val Glu Gly Met Val Cys Ser His Cys Ala Pro
85           90           95
Xaa Val His Arg Ile Asp Glu Cys Xaa Arg Leu Ala Ala Gly Phe Leu
100          105          110
Gly Val Phe Glu Val Thr Lys His
115          120

```

<210> 32986

<211> 91

<212> PRT

<213> A.fumigatus

<400> 32986

Ala Met Ala Thr Gly Asn Gln Val Asp Met Val Ile Trp Val Tyr Arg
 1 5 10 15
 Gly Val Gly Thr His Ile Tyr Pro Leu Gly Met Thr Gly Phe Ser Asn
 20 25 30
 Phe Phe Val Asn Leu Phe Val Cys Glu Ile Phe Tyr Thr Leu Ser Ile
 35 40 45
 Cys Glu Thr Lys Tyr Ser Ile Leu Met Phe Tyr Trp Arg Ile Phe Gly
 50 55 60
 Thr Thr Asn Ile Arg Ile Pro Ile Tyr Val Ile Phe Phe Leu Val Thr
 65 70 75 80
 Cys Trp Gly Leu Gly Ile Val Arg Arg Thr Ile
 85 90

<210> 32987

<211> 527

<212> PRT

<213> A.fumigatus

<400> 32987

Phe Pro Arg Ala Arg Gly Thr Arg Ser Thr Ala Asp Ser Gly Ala Ser
 1 5 10 15
 Ala Arg Arg Tyr Ser Ala Met Thr Arg Trp Arg Ser Met His Ile Ser
 20 25 30
 Ala Ser Leu Thr Thr Pro Pro Gly Phe Arg Trp Trp His Ala Ser Asp
 35 40 45
 Ser Glu Pro Thr Trp Asp Ser Leu Gly Leu Thr Gly Tyr Arg Pro Leu
 50 55 60
 Gly Asp Ser Val Ile Asn His Ser Ala Glu Val Ala Gly Leu Ala Ser
 65 70 75 80
 Trp Leu His Leu Ala Pro Leu Cys Lys Ile Ile Gln Asn Ala Lys Val
 85 90 95
 Leu Asp His Tyr Thr Asn Cys Asp Val Lys Pro Lys Pro Leu Cys Asp
 100 105 110
 Ala Leu Gln Lys Phe Leu Trp Arg Leu Arg Ser Arg Gly Gln Ser Leu
 115 120 125
 Gln Tyr Val Asp Thr Asp Ile Ile Thr Ser Ile Leu Arg Asn Leu His
 130 135 140
 Glu Tyr Ser Gly Asp Val Cys Glu Phe Trp Glu Arg Leu Arg Arg Thr
 145 150 155 160
 Ile Glu Phe Glu Leu Ser Asp Thr Asp Ala Pro Lys Glu Leu Ala Lys
 165 170 175
 Ile Phe Asp Ser Pro Ser Pro Asp Ser Leu Ala Val Ser Gly Val Asp
 180 185 190
 Ala Val Asn Thr Ile Pro Lys Asp Phe Asn Ser Arg Ile Cys Val Pro
 195 200 205
 Ala Glu Gln Ala Lys Thr Met Arg Glu Gly Leu Ser Trp Tyr Leu Thr
 210 215 220
 Gln Lys Pro Gly Arg Trp Ala Leu Pro Pro Val Leu His Val Glu Leu
 225 230 235 240
 Tyr Arg His Lys Leu Asp Lys Ala Ala Arg Gln Trp Arg Leu Val Tyr
 245 250 255
 Asn Lys Val Asp Leu Asp Glu Glu Leu Asp Leu Thr Pro Tyr Leu Val
 260 265 270

Asp Gly Gln Cys Gly Ser Tyr Val Leu Tyr Gly Tyr Ile Val His Arg
 275 280 285
 Gly Arg Arg Thr Ser Gly Lys Phe Phe Ser Ile Leu Arg Pro Gly Gly
 290 295 300
 Pro Gly Thr Arg Trp Leu Ala Phe Asp Asp Gly Ser Asp Asn Arg Val
 305 310 315 320
 Glu Cys Leu Thr Arg Lys Thr Ala Leu Gly Pro His Leu Gly Leu Asp
 325 330 335
 Glu Ser Gln Lys Val Asp His Lys Thr Gly His Asp Val Ala Ile Ala
 340 345 350
 Val Met Tyr Ile Arg Gly Asp Val Val Ser Glu Phe Leu Pro Gly Pro
 355 360 365
 Gln Gly Pro Trp Asp Val Ser Pro Ser Leu Lys Glu Tyr Tyr Glu Thr
 370 375 380
 Gly Ile Tyr Pro Leu Ser Ser Met Ser Ala Gly Lys Pro Ala Glu Lys
 385 390 395 400
 Glu Ile Gln Val Glu Val Tyr Ala Pro Pro Gln Tyr Asp Lys Leu Pro
 405 410 415
 Ser Leu Phe Asp Ser Tyr Asp Leu Met Ser Gln Ala Lys Ala Ala Asn
 420 425 430
 Lys Val Met Tyr Met Thr Val Pro Arg Ser Glu Asn Ile Val Glu Leu
 435 440 445
 Arg Lys Lys Ile Ala Leu Trp Ala Ser Ala Gly Ser Glu Thr Gln Ala
 450 455 460
 Ser Pro Glu Asn Ile Arg Leu Trp Gln Ile Gly His Thr Arg Asp Arg
 465 470 475 480
 Phe Gly Pro Thr Leu Ala Phe Glu Arg Ile Ser Asp Leu Lys Ser Thr
 485 490 495
 Leu Asp Leu Pro Val Pro Val Ala Arg Leu Trp Met Gln Val Val Ser
 500 505 510
 Asp Gly Asn Phe Phe Phe Phe Phe Phe Phe Cys Pro Leu Asp
 515 520 525

<210> 32988

<211> 243

<212> PRT

<213> A.fumigatus

<400> 32988

Ile Asp Ser Cys Gly Thr Arg Leu Met His Gly Ser Ile Asp Glu Ala
 1 5 10 15
 Lys Tyr Phe Ala Ile Arg Asp Pro Arg Asp Ala Val Val Ala Gln Arg
 20 25 30
 Lys Thr Glu Glu Ala Val Val Glu Arg Ala Gly Ser Glu Ser Ser Asp
 35 40 45
 Asp Arg Gln Tyr Thr Pro Glu Val Arg Ser Gly Gly Ala Glu Ala Ser
 50 55 60
 Ser Ser Gly Asn Val Thr Glu Ser Asp Leu Ser Asn Gly Asp Arg Val
 65 70 75 80
 Ser Val Glu Gln Pro Leu Pro Arg Ala Ser Asp Ser Glu Val Ser Glu
 85 90 95
 Ser Ser Ser Gln Glu Thr Pro Asp Ser Ser Glu Ile Gln Pro Ser Asn
 100 105 110
 Ala Ser Thr Glu Asp Asp Ala Ala Ile Ala Ala Ile Ile Ala Gln Asp
 115 120 125
 Val Gln Gln Met Asp Ile Gln Leu Ala Glu Glu Ala Gln Gln Ser Pro

13060

130		135		140
Ile Arg Ala Glu Gln Ser Ser Asn Asp Thr Thr Gln Ser Glu Pro Ala				
145		150		160
Glu Gln Arg Ala Ala Ser Pro Ala Pro Glu Ala Met Ser Ser Thr Ser				
	165		170	175
Glu Glu Pro Asp Val Pro Leu Pro Val Glu His Val Tyr Tyr Phe Ile				
	180		185	190
Gln Ile Phe Asp Val Glu Ala His Ser Val Ala Tyr Gly Gly Leu Leu				
	195		200	205
Pro Leu Pro Lys Gly Gly Glu Asn Gln Asp Arg Ser Ala Glu Ala Leu				
	210		215	220
Glu Val Ala Glu Glu Lys Gly Ile Phe Arg Ser Gly Ser Gly Leu Met				
225		230		240
Ala Pro Leu				

<210> 32989

<211> 231

<212> PRT

<213> A.fumigatus

<400> 32989

Ser Arg Cys Ser Arg Leu Thr Thr Val Cys Phe Ala Cys Arg Thr Thr				
1	5		10	15
Ala His Arg Leu Arg Tyr Ser Val Ala Leu Ala Tyr Arg Phe Arg Ile				
	20		25	30
Pro His Asn Arg Arg Ser His Gly Ser Pro Ser Ser Thr Gly Arg Leu				
	35		40	45
His Tyr Leu Thr Asp Arg Ile Asn Met Cys Phe Leu Asp Ile Asp Asp				
	50		55	60
Arg Pro Gly Pro Gly Val Arg Val Val Glu Tyr Arg Pro Gly Thr Leu				
65		70		80
Arg Val Ser Met Pro Gly Pro Arg Arg Arg Arg Ser Ser Cys Ser Ser				
	85		90	95
Gly Ser Ser Ser Asp Ser Gly Ser Ser Ser Ser Ser Pro Ser Ser Ser				
	100		105	110
Ser Ser Ser Cys His Ser Ser Ser Asn Ser Ser Ser Ser Asp Asp Thr				
	115		120	125
Thr Val Val Ile Ala Pro Ser Pro Leu His His His His His Arg Tyr				
	130		135	140
Gln Arg Tyr Ser Trp Tyr Ala Arg Ser Lys Ser Pro Glu Pro Glu Ser				
145		150		160
Ser Tyr Thr Thr Val Gln Arg Thr Arg Val Arg Thr Arg Ser Glu Ser				
	165		170	175
Ile Ile Pro Phe Arg Arg Arg Phe Phe Asp Ser Pro Pro Arg Ser Pro				
	180		185	190
Ser Pro Val Tyr Arg Cys Val Arg Tyr Val Glu Pro Gly Gly Trp Gly				
	195		200	205
Arg Ser Arg Leu His His Pro Gly Arg Val Trp Glu Glu Glu Val Arg				
	210		215	220
Phe Val Ser Gly Arg Gly Gly				
225		230		

<210> 32990

<211> 198

<212> PRT

<213> A.fumigatus

<400> 32990

Lys Tyr Ser Ile Leu Tyr Val Ala Lys Arg Thr Arg Asn Arg Thr Leu
 1 5 10 15
 Ser Ile Arg Lys Lys Glu Pro Ala Arg His Arg Phe Arg Met Ser Thr
 20 25 30
 Phe Arg Gly Leu Gln Ala Ala Pro Glu Leu Ser Arg Lys Met Ser Arg
 35 40 45
 Ile Val Lys Gln Glu Asn Ser Val Ile Ser Ala His Glu Ala Ala Gly
 50 55 60
 Arg Glu Arg Val Asn Ile Ala Ala Gln Leu Ser Glu Trp Gly Glu Gly
 65 70 75 80
 Thr Glu Asp Asp Ala Val Ser Asp Ile Ser Asp Lys Leu Gly Val Leu
 85 90 95
 Met Ala Glu Ile Gly Glu Gln Glu Asp Asn Phe Ala Gln Ser Leu Glu
 100 105 110
 Asp Tyr Arg Ser Ile Leu Lys Ser Ile Arg Asp Thr Glu Thr Ser Val
 115 120 125
 Gln Pro Ser Arg Asp His Arg Ala Lys Ile Ala Asp Asp Ile Gln Arg
 130 135 140
 Leu Lys Leu Lys Gly Glu Gln Ser Asn Ala Lys Val Glu Val Leu Glu
 145 150 155 160
 Gln Glu Leu Val Arg Ala Glu Ala Asn Asn Leu Val Ala Glu Ala Gln
 165 170 175
 Leu Thr Asn Val Val Arg Met Ala Ser Arg Val Tyr Leu Ile Ala Ser
 180 185 190
 Ala Gly Leu Arg Phe Val
 195

<210> 32991

<211> 101

<212> PRT

<213> A.fumigatus

<400> 32991

Ala Arg Ile Pro Gly Val Ala Leu Val Ser Met Met Met Val Met Gln
 1 5 10 15
 Arg Thr Trp Arg Asn Asp Asn Gly Gly Ile Ile Ala Thr Ala Ala Val
 20 25 30
 Ala Ala Thr Met Thr Ala Arg Ala Ala Ala Trp Ala Gly Thr Gly
 35 40 45
 Ala Ala Thr Val Thr Ala Thr Thr Ala Thr Ala Ala Ser Ala Pro
 50 55 60
 Thr Arg Thr Trp His Gly Asp Ser Lys Gly Pro Arg Ala Ile Phe Asp
 65 70 75 80
 Asp Ser His Ala Gly Pro Arg Ser Val Val Asn Val Glu Glu Ala His
 85 90 95
 Val Asp Ser Val Ser
 100

<210> 32992

<211> 529

<212> PRT

<213> A.fumigatus

<400> 32992

Val Asp Pro Thr Phe Thr Asp Ser Met Gly His Phe Thr Arg Arg Phe
 1 5 10 15
 Glu Gln Leu Leu Asn Asn Leu Asp Lys Lys Asn Ser Met Thr Asp Cys
 20 25 30
 Cys Ile Glu Thr Tyr Leu Met Lys Ser Glu Arg Lys Phe Tyr Asn Met
 35 40 45
 Tyr Asn Asp Ala Gln Leu Lys Lys His His Ala Lys Glu Ser Ile Ser
 50 55 60
 Ser Ser Ala Ser Pro Glu Gln Leu Asp His Glu Thr Gln Tyr Asn Arg
 65 70 75 80
 Leu Ser Thr Ala Thr Ala Gly Ser Asp Pro Ser Asp Ser Asp Glu Ile
 85 90 95
 Asp Arg Trp Leu Ser Arg Leu Gly Tyr Arg Arg Pro Val Ala Ile Gln
 100 105 110
 Arg Phe Met Arg Arg Arg Ile Gly Thr Trp Pro Val Tyr Ala Leu Phe
 115 120 125
 Leu Gly Leu Gly Gln Ile Ile Ala Thr Asn Ser Ala Gln Ile Thr Leu
 130 135 140
 Leu Val Gly Gln Val Gly Glu Thr Ala Thr Lys Leu Tyr Val Ile Ala
 145 150 155 160
 Ala Ile Tyr Cys Val Ser Ser Ile Ser Trp Trp Phe Met Tyr Ala Arg
 165 170 175
 Leu Pro Ala Val Ile Val Leu Ser Leu Pro Trp Phe Ile Tyr Cys Leu
 180 185 190
 Ala Phe Ile Val Ile Gly Val Ser Pro Phe Gly Leu Ser Glu Val Gly
 195 200 205
 Arg Gly Trp Ala Gln Asn Val Ala Ala Gly Val Tyr Ala Val Ala Ser
 210 215 220
 Ser Ser Gly Ser Leu Phe Phe Ala Leu Asn Phe Gly Asp Gln Gly Ala
 225 230 235 240
 Val Pro Val Lys Asp Trp Met Phe Arg Ala Ser Leu Ile Gln Gly Ile
 245 250 255
 Ser Gln Leu Tyr Thr Val Ala Leu Trp Tyr Trp Ser Ser Lys Val Thr
 260 265 270
 Ala Thr Glu Ile Gly Gly Val Ser Thr Phe Ala Leu Ser Thr Trp Arg
 275 280 285
 Leu Thr Ala Val Val Met Pro Ile Ala Ala Leu Cys Phe Ala Ile Gly
 290 295 300
 Val Ile Leu Ala Leu Gly Leu Pro Lys Tyr Tyr Arg Gln Ala Pro Ser
 305 310 315 320
 Arg Ile Leu Phe Phe Tyr Thr Ser Leu Phe Arg Arg Arg Ile Val Leu
 325 330 335
 Trp Phe Phe Leu Met Val Ile Val Gln Asn Trp Phe Leu Ala Ala
 340 345 350
 Phe Gly Arg Asn Trp Ser Phe Leu Trp Ser Ser Lys His Ala Lys Thr
 355 360 365
 Trp Glu Val Val Ile Leu Val Val Gly Phe Phe Ile Ile Ile Trp Val
 370 375 380
 Leu Ile Leu Phe Ala Phe Arg Ala Leu Ser Lys Glu His Ser Trp Ile
 385 390 395 400
 Leu Pro Val Phe Gly Leu Ser Leu Gly Ser Pro Arg Trp Ala Gln Thr
 405 410 415
 Trp Trp Gly Thr Ser Asn Ile Gly Tyr Tyr Leu Pro Trp Ala Gly Gly
 420 425 430
 Leu Thr Ser Gly Ala Ile Val Ser Arg Cys Leu Trp Leu Trp Leu Gly

435 440 445
 Val Leu Asp Glu Ile Gln Gln Val Gly Leu Gly Met Ile Leu Leu Gln
 450 455 460
 Thr Leu Thr Arg Val His Val Cys Phe Val Leu Leu Ala Ala Gln Ala
 465 470 475 480
 Val Gly Ser Val Ala Thr Ile Cys Ala Arg Gly Phe Ala Pro Asn Arg
 485 490 495
 Leu Gly Pro Asp Gly Ile Ser Pro Asn Ile Gly Thr Ser Val Asp Lys
 500 505 510
 Ile Ala Asn Ala Trp Phe Trp Ile Ala Leu Phe Phe Gln Leu Leu Ala
 515 520 525
 Arg

<210> 32993
 <211> 146
 <212> PRT
 <213> A.fumigatus

<400> 32993
 Ser Pro Ser Leu Ser Ser Glu His Ser Glu Thr Thr Phe Ile Met Ser
 1 5 10 15
 Lys Pro Leu Ser His Ile Lys Ile Ala Leu Arg Arg Ser Ser Glu Arg
 20 25 30
 Gly Tyr Ala Glu His Gly Gly Trp Leu Lys Thr Tyr His Thr Phe Ser
 35 40 45
 Phe Ala Asp Tyr Phe Asp His Arg Phe Leu Asn Phe Gly Cys Leu Arg
 50 55 60
 Val Leu Asn Glu Asp Arg Val Ala Ala Arg Asn Gly Phe Pro Leu His
 65 70 75 80
 Thr His Arg Asp Ala Glu Ile Phe Ser Tyr Ile Leu Ser Gly Glu Leu
 85 90 95
 Thr His Arg Asp Ser Met Ile Lys Lys Gly Ala Glu Gly Ala Gln Gly
 100 105 110
 Lys Gln Phe Tyr Arg Met Arg Arg Gly Asp Val Gln Phe Thr Thr Gly
 115 120 125
 Gly Thr Gly Lys Tyr Gln Leu Leu Met His Tyr Asp Val Ala Met Cys
 130 135 140
 Arg Leu
 145

<210> 32994
 <211> 177
 <212> PRT
 <213> A.fumigatus

<400> 32994
 Thr Leu Thr Arg Leu Ser Gly Ile Ala His Ser Glu Gln Asn Glu Ser
 1 5 10 15
 Ser Lys Pro Val His Phe Leu Gln Ile Trp Val Leu Pro Trp Lys His
 20 25 30
 Gly Leu Lys Pro Gln Tyr His Thr Met Ser Phe Ser Glu Glu Ala Lys
 35 40 45
 Arg Lys Ala Phe Val Pro Ile Leu Ser Pro Leu Ala Ala Gly Pro Glu
 50 55 60
 Ala Asn Pro Ala Glu Glu Glu Ala Ala Arg Pro Lys Ile Pro Asp Thr

13064

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65              70              75              80
Ile Pro Ile His Ala Asp Phe Leu Met Gly Ala Gly Ile Ile Ala Pro
      85              90              95
Asn Thr Thr Phe Lys Trp Asn Val Gly Ala Gly Asp Val Val Ser Ser
      100              105              110
Arg Lys Lys Arg Asn Val Tyr Ile His Leu Pro Met Thr Lys Gln Gly
      115              120              125
Lys Ala Lys Ile Lys Leu Asp Gly Arg Glu Asp Ala Val Leu Glu Glu
      130              135              140
Gly Asp Gly Ala Phe Val Thr Gly Val Asn Ala Gly Asp Met Leu Ala
145              150              155              160
Val Glu Ser Ile Gly Glu Ala Glu Ala Glu Val Ile Val Leu Asp Ser
      165              170              175
Asn

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<210> 32995

<211> 171

<212> PRT

<213> A.fumigatus

<400> 32995

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Thr Thr Ser Cys Asp Thr Ala Val Ser Ala Arg Ala Ser Arg Ala Gly
1              5              10              15
Pro Arg Phe Glu Gly Asn Ala Pro Val Cys Ser Ile His Ser Ala Gln
      20              25              30
Ser Ala Gln Phe Leu Ile Ala Trp Leu Glu Ser Thr His Cys His Ile
      35              40              45
Ile Met His Gln Glu Leu Val Leu Thr Ser Pro Pro Arg Arg Glu Leu
      50              55              60
His Ile Thr Pro Ser His Pro Val Glu Leu Leu Pro Leu Cys Thr Phe
65              70              75              80
Arg Ser Phe Leu Asp His Ala Ile Ala Val Cys Gln Leu Thr Ala Glu
      85              90              95
Asn Ile Ala Glu Asp Leu Cys Ile Pro Val Arg Met Gln Trp Glu Ser
      100              105              110
Ile Pro Ser Ser Asn Ala Val Phe Val Gln Tyr Ser Gln Ala Thr Glu
      115              120              125
Val Glu Glu Ala Val Val Glu Val Val Gly Glu Ala Glu Gly Val Val
      130              135              140
Cys Phe Gln Pro Ala Ala Val Leu Ser Ile Ser Ala Leu Thr Gly Ala
145              150              155              160
Thr Glu Cys Asp Leu Asp Val Ala Glu Arg Phe
      165              170

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<210> 32996

<211> 72

<212> PRT

<213> A.fumigatus

<400> 32996

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Pro Leu Thr Thr Ala Ala Leu Ala Leu Pro Arg Ala Ile Pro Leu Tyr
1              5              10              15
Ala Asn Gln Val Thr Asn Ser Gln Ser Arg Phe Pro Asn Arg Arg Leu
      20              25              30
Leu Asp Phe Arg Asp Leu Leu Ile Pro Pro Leu Leu Asn His Gln Ile

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13065

	35		40		45										
Asn	Ile	Ile	Ile	His	Thr	Arg	Pro	Tyr	Ile	Pro	Thr	Ala	Phe	Gly	Thr
	50					55					60				
Asp	Leu	Phe	His	Thr	Pro	Asp	Phe								
65					70										

<210> 32997

<211> 430

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (415)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 32997

Asp	Cys	His	Met	Ser	Asp	Ser	Arg	Gln	Gly	Ser	Glu	Ser	Ser	Ala	Ala
1			5					10					15		
Thr	Tyr	His	Ser	Gln	Pro	Glu	Ser	Glu	Asn	Thr	Gln	Asp	Ser	Val	Gly
		20				25					30				
Pro	Glu	Ser	Pro	Gly	Ser	Pro	Pro	Ala	Pro	Pro	Gly	Ser	Pro	Arg	Ser
		35				40					45				
Pro	Glu	Gln	Gln	Ser	Gln	Asp	Gly	Asp	Asn	Gln	Glu	Ile	Pro	Asn	Ile
	50				55					60					
Glu	Thr	Thr	Pro	Lys	Ser	Gly	Glu	Asn	Gly	Glu	Gly	Ser	Gln	Lys	Arg
65				70				75						80	
Gln	Arg	Val	Arg	Phe	Arg	Ser	Ala	Ile	Ser	Val	Asp	Tyr	Pro	Gln	Pro
			85					90					95		
Gly	Gly	Pro	Glu	Ser	Ser	Glu	Asp	Glu	Arg	Ser	Ile	Gln	Glu	Lys	Gln
		100						105				110			
Lys	Ala	Gln	Arg	Asp	Gln	Ala	Gln	Arg	Gln	Gly	Gln	Pro	His	Leu	Met
	115				120							125			
Ser	Thr	Pro	Tyr	Val	His	Gly	Ser	Leu	Asp	Val	Thr	Glu	Thr	Pro	Leu
	130				135						140				
Lys	Glu	Arg	Thr	Thr	Gln	Glu	Asp	Leu	Gln	Gln	Ala	Glu	Lys	Thr	Pro
145				150					155					160	
Val	Asp	Lys	Lys	Pro	Asp	Gly	Ile	Gly	Ala	Ala	Ala	Ala	Val	Gly	Asp
			165					170						175	
Val	Ser	Arg	Thr	Ala	Lys	Asp	Lys	Leu	Arg	Trp	Leu	Trp	Asp	Thr	Val
		180					185						190		
His	Gly	Lys	Leu	Ser	Lys	Trp	Ser	Asp	Arg	Leu	Gly	Arg	Pro	Glu	Arg
	195					200					205				
Gly	Gly	Asp	Asp	Leu	Gly	Pro	Gly	Val	Tyr	His	Asn	Glu	Trp	Thr	Ser
	210				215						220				
Gly	Gly	Asn	Ala	Pro	Leu	Gly	Asp	Leu	Thr	Asp	Asn	Lys	His	Lys	Thr
225				230					235					240	
His	Glu	Glu	Lys	Lys	Ser	His	Gln	Ala	Thr	Ser	Thr	Ser	Glu	Ala	His
			245						250				255		
Arg	Leu	Val	Arg	Glu	Leu	Thr	Gln	Asp	Gln	Ser	Gly	Asn	Arg	Arg	Lys
		260					265					270			
Thr	Arg	Gly	Lys	Pro	Tyr	Pro	His	Thr	Asp	Thr	Gln	Gly	Gly	Gln	Gly
	275					280					285				
Gly	Gln	Gly	Asn	Asn	Ala	Ile	Glu	Ser	Gly	Leu	Arg	Tyr	Arg	Ala	Gly
	290				295					300					
Gly	Gly	Gly	Val	Leu	Ala	Gln	Leu	Met	Lys	Leu	Asn	Gly	Gly	Met	Gln

13066

305 310 315 320
 Gln Gly Gly Gln Ala Gly Gln Ala Gly Gln Gly Gly Gln Arg Ser Pro
 325 330 335
 Ser Asp Thr Gly Thr Ser Gly Thr Thr Thr Pro Lys Lys Glu Lys Leu
 340 345 350
 Lys Trp Tyr Lys Asn Lys Gln His Thr Arg Ser Thr Ser Thr Leu Val
 355 360 365
 Gly Ala Ser Gly Ser Met Ser Gly Ala Ser Thr Pro Val Ser Ser Glu
 370 375 380
 Val Leu Ser Ala Ala Ser Lys Arg Leu Gly Gly Gln Gln Phe Gln His
 385 390 395 400
 Gly Gly Arg Gly Arg Leu Glu Asp Gln Ile Gln Val Asp Val Xaa Ile
 405 410 415
 Ala Glu Ile Met Arg Ala Arg Gly Thr Leu Cys Asn Trp Cys
 420 425 430

<210> 32998

<211> 176

<212> PRT

<213> A.fumigatus

<400> 32998

Gly Arg Thr Gln Leu Pro Ser Lys Ser Pro Arg Asp Thr Asn Leu Ile
 1 5 10 15
 Asp Cys Asn Met Lys Leu Val Trp Ile Ala Gln Arg Leu Gly Arg Gln
 20 25 30
 Gly Gln Arg Arg Lys Val Ala Arg Ile Ala Ser Ser Leu Phe Phe Ile
 35 40 45
 Val Ala Leu Thr Ala Leu Cys Leu Tyr Ile Leu Leu Ala Tyr Phe Leu
 50 55 60
 Ala Asn Asp Pro Arg Leu Val Pro Val Ala Phe Gln Thr Ala Arg Ser
 65 70 75 80
 Ile Leu Leu Val Thr Ala His Pro Asp Asp Glu Thr Leu Phe Phe Ser
 85 90 95
 Pro Ser Ile Thr Tyr Arg Arg Asp Asp Pro His Val Gln Arg Ala Leu
 100 105 110
 Leu Val Ile Ser Ser Gly Gly Leu Asp Ile His Ser Tyr Arg Leu Met
 115 120 125
 Leu Thr Cys Leu Gly Asn Tyr Glu Gly Ile Gly Glu Arg Arg Gln Gln
 130 135 140
 Glu Ile His Asp Ser Cys Ser Val Leu Gly Ile Val Pro Asp Arg Cys
 145 150 155 160
 Val Val Leu Gly Leu His Gln Gly Arg Lys Gly Pro Arg His Pro Arg
 165 170 175

<210> 32999

<211> 169

<212> PRT

<213> A.fumigatus

<400> 32999

Pro Arg Cys Gly Thr Ala Pro Cys Gly Pro Ser Thr Ser Arg Thr Thr
 1 5 10 15
 Ser Arg Thr Thr Asn Ser Ser Thr Ser Thr Thr Ser Thr Ser Thr Pro
 20 25 30
 Ser Thr Pro Ser Ser Ser Ser Ser Ala Gln Thr Arg Ile Pro Arg Ala

35 40 45
 Leu Pro Arg Pro Thr Ala Pro Pro Ala Pro Ser Thr Ser Ala Thr Pro
 50 55 60
 Ser Asn Ser Thr Ile Ala Thr Pro Pro Ala Ile Trp Pro Gly Thr Ala
 65 70 75 80
 Ser Ala Ser Arg Ser Ser Pro Gly Ser Arg Ala Gln Gly Thr Asp Gly
 85 90 95
 Val Gly Lys Thr Cys Trp Arg Ala Gly Thr Arg Cys Ala Cys Ala Ala
 100 105 110
 Ala Gly Ala Gly Trp Ser Arg Ser Met Arg Arg Ile Ser Ser Ala Gln
 115 120 125
 Thr Pro Cys Ala Ser Gly Arg Met Thr Arg Ser Ser Gly Met Arg Arg
 130 135 140
 Ser Ala Val Trp Cys Met Arg Met Cys Arg Met Arg Arg Arg Met Ser
 145 150 155 160
 Thr Arg Phe Arg Pro Arg Gly Cys Ile
 165

<210> 33000

<211> 144

<212> PRT

<213> A.fumigatus

<400> 33000

Arg Ala Gly Thr Ala Asn Arg Pro Ser Arg Pro Arg Gln Arg Leu Pro
 1 5 10 15
 Gln Pro Val Arg Lys Gln Gln Arg Ala Lys Arg Pro Ala Ser Ala Gly
 20 25 30
 Gly Pro Arg Ala Ala Asn Pro Lys Gln Gln Val His Arg Gly Gly Cys
 35 40 45
 Arg Gln Ala His Arg Val Arg Arg Leu Pro Pro Arg His Ala Pro Arg
 50 55 60
 Trp Pro Gln Thr His Gln Ala His Arg Leu Pro Ser His Ala Ala Glu
 65 70 75 80
 Pro Arg Pro Ala Ala Pro Arg Arg Ala Glu Pro Pro His Val Arg Gln
 85 90 95
 Thr Pro Leu Pro Gln Arg Arg Leu Leu Pro Pro Arg Arg Arg Pro Pro
 100 105 110
 Ala Pro Leu Leu His Lys Arg Ala Ser Pro Ala His Cys Pro Gly Leu
 115 120 125
 Pro Arg Arg Leu Arg Arg Arg Leu Gln Gln Pro Leu Gln Ile Leu Arg
 130 135 140

<210> 33001

<211> 615

<212> PRT

<213> A.fumigatus

<400> 33001

Leu Cys Pro Thr Ser Asn Asp Glu Phe Met Asn His Ser Thr Ala Arg
 1 5 10 15
 Val Leu Pro Phe Gly Arg Ser Arg Leu His Thr Ile Pro Asp Ile Thr
 20 25 30
 Arg Tyr Thr Ile Thr Asp Pro Leu Gly Pro Leu Ala Leu His Leu Ala
 35 40 45
 Arg Lys Thr His Gln Leu Leu Gln Ser Leu Met Ser Phe Lys Leu Ala

50	55	60
Leu Pro Asn Val Ser Gly Cys Ala Asn Pro Ala Ala Gln Asn Pro Ser		
65	70	75
Ala Tyr Arg Thr Leu Ser Phe Asp Phe Asp Gly Val Ala His Ile Thr		80
	85	90
Asp Cys Leu Gly Cys Pro Ala Val Ala Arg Pro Pro Lys Arg Ile Pro		95
	100	105
Ser Lys Leu Arg Leu Asn Arg Ser Phe Ser Val Gln Lys Leu Arg Gly		110
	115	120
Gly Arg Val Gln Pro Pro Thr Met Ala Trp Leu Arg Val Glu Phe Arg		125
	130	135
Leu Leu Val Ser Arg Leu Leu Pro Phe Pro Ser Ser Gly Tyr Ser Val		140
145	150	155
Leu Pro Gln Ser Ser Arg Ser Gly Arg Ala Val Ser Phe Ala Gln Ser		160
	165	170
Pro Arg Ala Ala Cys Arg Cys Leu Thr Leu Leu Val Arg Ile Gly Leu		175
	180	185
Val Val Leu Leu Cys Asn Ile Ile Leu Thr Pro Ile Phe Trp Pro Ser		190
	195	200
Tyr Thr His Leu Pro Pro Cys Tyr Glu Asn Leu Gln Thr Ile Ala Ser		205
	210	215
Asn Ser Asp Thr Pro Gly Arg Gly Asn Thr His Asn Glu Lys Val Phe		220
225	230	235
Ile Ala Ala Ile Leu Tyr Asp Arg Thr Gly Glu Leu Ala Gly Gly Pro		240
	245	250
Trp Gly Asp Ala Leu Val Gln Leu Ile Asp Leu Leu Gly Pro Asp Asn		255
	260	265
Val Phe Leu Ser Leu Tyr Glu Asn Asn Ser Gly Pro Lys Gly Gln Gln		270
	275	280
Ala Leu Glu Ala Leu Ala Gln Arg Ile Gln Ser Asn Lys Ser Ile Val		285
	290	295
Val Asp Val Asp Lys His Thr Ala Phe Asp Ala Phe Pro Arg Val Thr		300
305	310	315
Leu Pro Asp Gly His Lys Arg Ile Lys Arg Ile Asp Tyr Leu Ala Thr		320
	325	330
Leu Arg Asn Arg Ala Leu Arg Pro Leu Asp Glu Pro Asn His Leu Thr		335
	340	345
Tyr Asp Lys Leu Leu Tyr Leu Asn Asp Val Tyr Phe His Pro Val Asp		350
	355	360
Ala Leu Gln Leu Leu Phe Cys Thr Asn Ala His Pro Pro Arg Thr Ala		365
	370	375
Pro Ala Tyr Arg Ala Ala Cys Ala Val Asp Phe Ser Asn Pro Phe Lys		380
385	390	395
Phe Tyr Asp Ser Tyr Ala Thr Arg Asp Leu Ala Gly Tyr Gly Ile Gly		400
	405	410
Leu Pro Phe Phe Pro Trp Phe Thr Ser Ala Gly His Gly Arg Ser Arg		415
	420	425
Glu Asp Val Leu Ala Gly Arg Asp Ala Val Arg Val Arg Ser Cys Trp		430
	435	440
Gly Gly Met Val Ala Phe Asp Ala Ser Tyr Phe Gln Arg Ala Asn Pro		445
	450	455
Val Arg Phe Arg Ala Asp Asp Glu Val Phe Trp Asp Ala Ser Glu Cys		460
465	470	475
Cys Leu Val His Ala Asp Val Gln Asp Ala Pro Glu Asp Val Asp Ala		480
	485	490
Ile Pro Ala Thr Gly Val Tyr Met Asn Pro Phe Val Arg Val Ala Tyr		495

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<210> 33002
<211> 64
<212> PRT
<213> A.fumigatus
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<210> 33003
<211> 122
<212> PRT
<213> A.fumigatus
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<210> 33004
<211> 149
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13070

<212> PRT

<213> A.fumigatus

<400> 33004

```

Arg Leu Pro Ser Pro Met Asp Pro Pro Ala Gly Phe Gly Met Gly Pro
1          5          10          15
Asn Ser Met Thr Ser Thr Pro Ala Pro Gly Pro Phe Thr Ser Ala Ala
          20          25          30
Gly Gly Phe Gly Gly Phe Asn Gln Gln Phe Ala Ala Pro Pro Asn Asn
          35          40          45
Tyr Ala Leu Pro Ser Gly Leu Gly Ser Ala Pro Gly Ala Tyr Pro Pro
          50          55          60
Met Gly Gln Met Asn Ala Ala Tyr Gly Ser Thr Ser Ala Ser His Thr
65          70          75          80
Thr Ser Ser Phe Ser Asn Pro Ala Thr Gln Ala Ala Phe Ser Gly Ala
          85          90          95
Asp His Thr Thr Ser Thr Ser Thr Ser Asn Gly Gly Phe Tyr Ala Thr
          100          105          110
Asp Gly Ser Asn Asp Pro Phe Ala Phe Leu Ser Thr Gly Leu Gly Gly
          115          120          125
Leu Thr Val Ser Asp Asp Ala His Ser Arg Arg Asn Gly Thr Gly Ala
          130          135          140
Ser Lys Ser Pro Ala
145

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<210> 33005

<211> 140

<212> PRT

<213> A.fumigatus

<400> 33005

```

Ile Gly Thr Cys Ala Val Gly Val Lys Gly Lys Asp Val Val Val Leu
1          5          10          15
Gly Cys Glu Lys Arg Ser Ala Leu Lys Leu Gln Asp Thr Arg Ile Thr
          20          25          30
Pro Ser Lys Ile Ala Gln Leu Asp Asn His Ala Val Leu Ala Phe Ala
          35          40          45
Gly Leu Asn Ala Asp Ala Arg Ile Leu Ile Asp Lys Ala Arg Leu Glu
          50          55          60
Ala Gln Ser His Arg Leu Thr Val Glu Asp Pro Val Thr Ile Glu Tyr
65          70          75          80
Ile Thr Lys Tyr Ile Ala Ser Val Gln Gln Arg Tyr Thr Gln Ser Gly
          85          90          95
Gly Val Arg Pro Phe Gly Ile Ser Thr Leu Val Val Gly Phe Asp Pro
          100          105          110
Asn Asp Lys Val Pro Arg Leu Tyr Met Thr Glu Pro Ser Gly Ile Tyr
          115          120          125
Ser Ala Trp Tyr Val Ala Ser Trp Leu Gly Gly Glu
          130          135          140

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<210> 33006

<211> 165

<212> PRT

<213> A.fumigatus

<400> 33006

13071

Pro Gly Leu Ile Leu Ala Ser Val Ala Ala Arg Asn Arg Val Pro Ile
 1 5 10 15
 Thr Thr Pro Val Ala Pro Arg Gln Ser Ala Ala Ala Ala Pro Arg Pro
 20 25 30
 Ser Ala Ile Pro Pro Ala Ala Asn Thr Gly Ile Cys Ala Gly Arg Gln
 35 40 45
 Ser Ile Ile Ser Gly Arg Arg Ala Ile Thr Pro Arg Pro Ser Leu Ala
 50 55 60
 Arg Pro Cys Pro Pro Ala Ser Ala Pro Cys Thr Thr Ile Thr Ser Gly
 65 70 75 80
 Ser Ser Leu Pro Cys Ala Ser Ser Leu Ala Ser Ala Ser Val Pro Ile
 85 90 95
 Trp Ile Gln Met Arg Val Asp Gly Asp Ala Cys Arg Ile Arg Arg Asp
 100 105 110
 Gln Val Ser Arg Ser Phe Cys Pro Trp Arg Gly Ala Lys Ser Gln Ala
 115 120 125
 Ala Gln Gly Leu Tyr Leu Leu Met Val Asp Met Ala Thr Ser Arg Ser
 130 135 140
 Ser Leu His Ser Trp Lys Pro Met Pro Thr Gly Arg Met Gly Trp Phe
 145 150 155 160
 Cys Ser Ala Asp Gly
 165

<210> 33007

<211> 375

<212> PRT

<213> A.fumigatus

<400> 33007

Leu Val Ser Ala His Glu Pro Leu Leu Leu Arg Lys Pro Pro Asn Lys
 1 5 10 15
 Met Ser Pro Leu Ile Thr Thr Ile Ser Arg Ser Tyr Pro Trp Met Lys
 20 25 30
 Thr Pro Leu Ile Val Ser Ala Pro Met Arg Val Thr Ser Gly Pro Thr
 35 40 45
 Leu Ala Val Ala Val Ser Arg Ala Gly Gly Leu Gly Phe Ile Gly Pro
 50 55 60
 Gly Val Lys Thr Gln Asp Ile Ser Ser Asp Leu Gln Thr Ala Ser Ser
 65 70 75 80
 Leu Ile Glu Ser Leu Ser Ala Ser Gln Ser Gln Pro Ser Ala Leu Gln
 85 90 95
 Asn Gln Pro Ile Leu Pro Val Gly Ile Gly Phe Gln Leu Trp Ser Asp
 100 105 110
 Asp Leu Glu Val Ala Met Ser Thr Ile Ser Lys Tyr Lys Pro Cys Ala
 115 120 125
 Ala Trp Leu Phe Ala Pro Arg His Gly Gln Lys Asp Leu Asp Thr Trp
 130 135 140
 Ser Arg Arg Ile Arg His Ala Ser Pro Ser Thr Arg Ile Trp Ile Gln
 145 150 155 160
 Ile Gly Thr Leu Ala Glu Ala Arg Glu Leu Ala Gln Gly Ser Glu Glu
 165 170 175
 Pro Asp Val Ile Val Val Gln Gly Ala Glu Ala Gly Gly His Gly Arg
 180 185 190
 Ala Asn Asp Gly Leu Gly Val Met Ala Leu Leu Pro Glu Met Met Asp
 195 200 205
 Cys Leu Pro Ala His Ile Pro Val Phe Ala Ala Gly Gly Ile Ala Asp

210		215		220
Gly Arg Gly Ala Ala Ala Ala Leu Cys Leu Gly Ala Thr Gly Val Val				
225		230		240
Met Gly Thr Arg Phe Leu Ala Ala Thr Glu Ala Arg Ile Ser Pro Gly				
	245		250	255
Tyr Gln Arg Glu Ile Val Arg Ala Ser Asn Gly Ala Val Ser Thr Thr				
	260		265	270
Arg Thr Leu Leu Tyr Asn Arg Leu Arg Gly Thr Val Gly Trp Pro Glu				
	275		280	285
Glu Tyr Ser Pro Arg Thr Ile Ile Asn Lys Ser Phe Ile Glu His Gln				
	290		295	300
Ala Gly Arg Pro Phe Glu Glu Leu Lys Ala Leu His Asp Glu Ala Leu				
305		310		320
Lys Ala Gly Asp Ala Gly Trp Gly Pro Glu Gly Arg Leu Ala Thr Tyr				
	325		330	335
Ala Gly Ala Ala Ile Gly Leu Ile His Asp Val Lys Asp Ala Glu Thr				
	340		345	350
Ile Val Arg Asp Val Gln Glu Glu Val Leu Gln Arg Leu Ser Asn Val				
	355		360	365
Gln Lys Ala Asn Ser Ala Gln				
370		375		

<210> 33008
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 33008
Ala Tyr Leu Phe Val Tyr Trp Val Trp Asp Thr Thr Asn Ser Gln Lys
1 5 10 15
Asn Arg Phe Arg Gln Gln Glu Arg Gly Thr Met Phe Ser Arg Lys Thr
20 25 30
Phe Pro Gln Leu Pro Trp Gln Thr Leu Lys Asn Pro Lys Thr Ile Thr
35 40 45
Ala Ala Asp Gly Ser Lys Ile Leu Val Asp Gly Trp Cys Lys
50 55 60

<210> 33009
 <211> 98
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (11), (18)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 33009
Thr Pro Val Thr Glu Met Gln Lys Ile Ala Xaa Tyr Asp Lys Asp Ser
1 5 10 15
Ser Xaa Gly Val Asp Tyr Leu Leu Ser Leu Pro Thr Cys Asn Gly Arg
20 25 30
Val Gly Ala Thr Gly Met Cys Leu Gly Gly His Leu Ala Tyr Arg Cys
35 40 45
Ala Leu Asp Ser Arg Val Lys Ala Ala Val Cys Tyr Phe Ala Thr Asp
50 55 60

13073

Ile His Ser Lys Thr Leu Gly Ala Gly Lys His Asp Asp Ser Leu Ala
 65 70 75 80
 Arg Ala Gly Asp Ile Lys Gly Glu Leu Leu Met Val Ser Leu Ile Ser
 85 90 95
 Ser Ser

<210> 33010
 <211> 158
 <212> PRT
 <213> A.fumigatus

<400> 33010
 His Ile Cys Leu Phe Thr Gly Phe Gly Ile Gln Pro Thr Ala Arg Arg
 1 5 10 15
 Ile Val Phe Val Ser Lys Ser Val Val Pro Cys Ser Leu Gly Arg Leu
 20 25 30
 Ser Leu Ser Ser His Gly Arg Pro Ser Arg Thr Pro Arg Pro Ser Leu
 35 40 45
 Pro Pro Met Val Pro Arg Ser Ser Leu Met Asp Gly Val Ser Asp Leu
 50 55 60
 Ser Arg Gln Arg Ser Thr Gln Thr Asn Met Leu Thr Phe Gly Thr Asp
 65 70 75 80
 Gly Lys Ala Arg Lys Ile His Tyr Thr Cys Asp Leu Tyr Phe Ala Leu
 85 90 95
 Asn Trp Gly Leu Ile Thr Gly Phe Ser Ser Pro Phe Pro Trp Phe Tyr
 100 105 110
 Pro Ile Phe Phe Ala Cys Met Ile Thr His Arg Ala Leu Arg Asp Ile
 115 120 125
 Gln Arg Cys Arg Asn Lys Tyr Gly Glu Ala Trp Val Glu Tyr Glu Arg
 130 135 140
 Gln Val Pro Tyr Leu Phe Ile Pro Val Ser Tyr Ser Ser Ser
 145 150 155

<210> 33011
 <211> 88
 <212> PRT
 <213> A.fumigatus

<400> 33011
 Tyr Ala Ala Ala Phe Arg Val Lys Lys Ser Asn Ile Thr Asn Ser Pro
 1 5 10 15
 Thr Ser Ala Pro Tyr Phe Thr Ala Gly Asn Phe Ile Phe Ser Met Ser
 20 25 30
 Ile Gly Gly Ser Leu Arg Phe Met Tyr Ile Ile Arg Leu Ala Thr Thr
 35 40 45
 Gly Arg His Leu Val Ser Phe Leu Leu Leu Phe Ser Phe Cys Phe Asp
 50 55 60
 Tyr Ser Tyr Leu Cys Pro Leu Ile Lys Arg Phe Met Thr Leu Ala Arg
 65 70 75 80
 Leu Tyr Arg Leu Asn Asp Asn Val
 85

<210> 33012
 <211> 70
 <212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (32), (68)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33012

Cys	Ser	Ala	Arg	Ser	Thr	Lys	Val	Arg	Thr	Arg	Leu	Arg	Ala	Ile	Asp
1				5					10					15	
Gly	Ala	Glu	Thr	Asp	Cys	Glu	Leu	Val	Thr	Gly	Pro	Val	Ser	Arg	Xaa
			20					25					30		
Ala	Arg	Gln	Ile	Ala	Gly	Gln	Gly	Tyr	Ile	Cys	Ala	Ala	Pro	Ser	Ser
		35					40					45			
Tyr	His	Glu	Phe	Thr	Gly	Pro	Glu	Pro	Leu	Gln	Tyr	Asn	Ala	Glu	Asp
	50					55					60				
Thr	Asp	Lys	Xaa	Asn	Gln										
65					70										

<210> 33013

<211> 280

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (26)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33013

Leu	Asn	Val	Val	His	Ile	Asp	Phe	Ser	Met	Leu	Phe	Ser	Arg	Ser
1			5					10					15	
Gly	Arg	Ser	Ile	Phe	Pro	Leu	Leu	Pro	Xaa	Tyr	Ala	Ala	His	Ala
			20					25					30	
Asn	Pro	Asn	Gln	Gly	His	Ile	Ile	Ala	Leu	Pro	Pro	Asp	Gly	Leu
		35				40						45		
Pro	Tyr	Phe	Gly	Leu	Arg	Ala	Arg	Leu	Ser	Gln	Val	Trp	Ile	Asn
	50					55					60			
Trp	Thr	Ile	Leu	Leu	Leu	Leu	Val	Leu	Val	Arg	Val	Leu	Leu	Ala
65					70					75				80
Ser	Gly	Leu	Gln	Ala	Asp	Met	Ser	Thr	Ala	Lys	Arg	Glu	Ala	Leu
			85						90				95	
Ala	Cys	Thr	Ser	Val	Glu	Ser	Met	Gly	Ser	Ser	Met	Ala	Ser	Met
		100						105				110		
His	Tyr	Leu	Ser	Gln	Gly	Val	Asn	Glu	Leu	Thr	Ala	Thr	Gly	Val
	115					120						125		
Lys	Ala	Val	Ser	Gly	Leu	Lys	Ser	Met	Leu	Met	Leu	Thr	Ile	Thr
	130					135					140			
Val	Glu	Glu	Leu	Val	Leu	Phe	Ile	Ile	Lys	Val	Leu	Tyr	Gln	Thr
145					150					155				160
Leu	Cys	Leu	Phe	Thr	Leu	Ala	Val	Arg	Gly	Ser	Val	His	Val	Ala
			165						170				175	
Gly	Val	Ile	Lys	Glu	Ala	Ala	Asp	Phe	Leu	Asn	Ser	Thr	Val	Lys
		180						185					190	
Val	Gly	Asp	Asp	Ile	Gly	Lys	Ala	Val	Ser	Thr	Phe	Glu	Ser	Ala
		195					200						205	

13075

Asn Lys Phe Leu Asp Gly Val Asn Thr Val Ala Ser Ala Phe Gly Ala
 210 215 220
 Ser Val Pro Thr Leu Asp Leu Asn Ser Ser Ile Ser Thr Leu Glu Asn
 225 230 235 240
 Leu Gln Leu Pro Ser Ser Ile Asp Gln Gly Leu Asp Lys Leu Asn Ser
 245 250 255
 Ser Leu Pro Thr Phe Asp Glu Val Ser Leu His His Gly Ala Gly Arg
 260 265 270
 Ile Arg Arg Arg Thr Lys Val Tyr
 275 280

<210> 33014
 <211> 161
 <212> PRT
 <213> A.fumigatus

<400> 33014
 Asp Leu Leu Tyr Arg Gln Arg Gly Met Asp Ala Val Ile Val Gln Lys
 1 5 10 15
 Thr Thr Arg Ile Leu Thr Gly Ser Gln Ala Leu Tyr Asp Ile Cys Met
 20 25 30
 Arg Thr Leu Lys Leu Ser Asn Pro Ser Tyr Gly Asp Leu Asn His Leu
 35 40 45
 Val Ser Ala Val Met Ser Gly Val Thr Thr Cys Leu Arg Phe Pro Gly
 50 55 60
 Gln Leu Asn Ser Asp Leu Arg Lys Leu Ala Val Asn Met Val Pro Phe
 65 70 75 80
 Pro Arg Leu His Phe Phe Met Val Gly Phe Ala Pro Leu Thr Ser Arg
 85 90 95
 Gly Ala His Ser Phe Arg Ala Val Ser Val Pro Glu Leu Thr Gln Gln
 100 105 110
 Met Phe Asp Pro Lys Asn Met Met Ala Ala Ser Asp Phe Arg Asn Gly
 115 120 125
 Arg Tyr Leu Thr Cys Ser Ala Ile Leu Tyr Val Thr Thr Pro Ala Ala
 130 135 140
 Ile Met His Asp Leu Cys Thr Asp His Asn Leu Ala Val Val Arg Phe
 145 150 155 160
 Gln

<210> 33015
 <211> 91
 <212> PRT
 <213> A.fumigatus

<400> 33015
 Arg Arg Ser Arg Thr Arg Cys Ala Thr Ser Ser Pro Arg Thr Arg Ala
 1 5 10 15
 Thr Ser Leu Ser Gly Phe Pro Thr Thr Ser Arg Pro Leu Cys Ala Pro
 20 25 30
 Phe Pro Pro Val Ala Ser Arg Cys Pro Arg Pro Ser Leu Val Thr Pro
 35 40 45
 Pro Pro Phe Arg Ser Cys Ser Ser Val Ser Val Ile Ser Ser Leu Leu
 50 55 60
 Cys Ser Val Ala Arg Leu Ser Cys Ile Gly Thr Leu Ala Arg Val Trp
 65 70 75 80

13076

Thr Arg Trp Ser Ser Leu Arg Pro Arg Ala Thr
85 90

<210> 33016
<211> 156
<212> PRT
<213> A.fumigatus

<400> 33016
Ala Asn Gly Asp Lys Tyr Val Pro Arg Ala Val Leu Val Asp Leu Glu
1 5 10 15
Pro Gly Thr Met Asp Ala Val Arg Ala Gly Pro Phe Gly Glu Leu Phe
20 25 30
Arg Pro Asp Asn Phe Val Phe Gly Gln Ser Gly Ala Gly Asn Asn Trp
35 40 45
Ala Lys Gly His Tyr Thr Glu Gly Ala Glu Leu Val Asp Gln Val Ile
50 55 60
Asp Val Val Arg Arg Glu Ala Glu Gly Cys Asp Cys Leu Gln Gly Phe
65 70 75 80
Gln Val Thr His Ser Leu Gly Gly Gly Thr Gly Ala Gly Met Gly Thr
85 90 95
Leu Leu Ile Ser Lys Ile Arg Glu Glu Phe Pro Asp Arg Met Met Ala
100 105 110
Thr Phe Ser Val Val Pro Ser Pro Lys Val Ser Asp Thr Val Val Glu
115 120 125
Pro Tyr Asn Ala Thr Leu Ser Val His Gln Leu Val Glu His Ser Asp
130 135 140
Glu Thr Phe Cys Ile Asp Asn Glu Val Trp Met Leu
145 150 155

<210> 33017
<211> 121
<212> PRT
<213> A.fumigatus

<400> 33017
Phe Ser Arg Gly Lys Val Ser Met Lys Glu Val Glu Asp Gln Met Arg
1 5 10 15
Asn Ile Gln Ser Lys Asn Gln Ser Tyr Phe Val Glu Trp Ile Pro Asn
20 25 30
Asn Ile Gln Thr Ala Leu Cys Ser Ile Pro Pro Arg Gly Leu Lys Met
35 40 45
Ser Ser Thr Phe Ile Gly Asn Ser Thr Ser Ile Gln Glu Leu Phe Lys
50 55 60
Arg Val Gly Asp Gln Phe Thr Ala Met Phe Arg Arg Lys Ala Phe Leu
65 70 75 80
His Trp Tyr Thr Gly Glu Gly Met Asp Glu Met Glu Phe Thr Glu Ala
85 90 95
Glu Ser Asn Met Asn Asp Leu Val Ser Glu Tyr Gln Gln Tyr Gln Asp
100 105 110
Ala Ser Ile Ser Glu Gly Glu Glu Glu
115 120

<210> 33018
<211> 200
<212> PRT

<213> A.fumigatus

<400> 33018

Glu Thr Glu Gln Thr Tyr Gly Ile Pro Thr Ile Ser Gly Leu Leu Thr
 1 5 10 15
 Ala Thr Ser Gln Phe Ser Asn Pro Glu Thr Ser Leu Lys Arg Tyr Thr
 20 25 30
 Asp Thr Ser Val Leu Ile Gln Glu Phe Met Gly Asn Ala Pro Ser Ser
 35 40 45
 Glu Arg Ala Cys Ile Ala Leu Ala Arg Thr Arg Phe Leu His Thr Gly
 50 55 60
 Tyr Arg Ala Ala Gly Lys Ile Gln Glu Asp Asp Met Leu Tyr Thr Leu
 65 70 75 80
 Gly Leu Phe Ala Ile Gln Pro Val Arg Phe Ile Glu Lys Phe Glu Trp
 85 90 95
 Arg Thr Leu Ser Asp Met Glu Lys Cys Ala Leu Gly Thr Phe Trp Lys
 100 105 110
 Ser Ile Gly Asp Gly Leu Asp Ile Ser Tyr Glu Asn Leu Pro Ser Ser
 115 120 125
 Lys Thr Gly Phe Arg Asp Gly Leu His Trp Leu Glu Glu Ile Met Ala
 130 135 140
 Trp Ser Asp Glu Tyr Glu Val Arg Ser Met Leu Pro Asp Val Lys Asn
 145 150 155 160
 Arg Glu Thr Ala Asp Gln Thr Thr Ala Val Leu Leu Tyr Met Ile Pro
 165 170 175
 Gly Pro Leu Gln Pro Ile Gly Leu Lys Phe Val Ser Phe Met Met Asp
 180 185 190
 Asp Arg Leu Arg Lys Ala Met Leu
 195 200

<210> 33019

<211> 627

<212> PRT

<213> A.fumigatus

<400> 33019

Arg Gly Gly Arg Pro Leu Glu Arg Ser Glu Tyr His Ile Ser Asn Gln
 1 5 10 15
 Gln His Gly Ala Asp Ala Glu Ile Gln Glu Thr Lys Pro Pro Asn His
 20 25 30
 Glu Pro Thr Pro Ser Gln Ile Leu Arg Tyr Ala Leu Met Gly Thr Thr
 35 40 45
 Glu Leu Ser Arg Gln Glu Pro Ser Lys Gln Asp Leu Asp Asp His Leu
 50 55 60
 Asn Glu Val Phe Leu Gly Glu Trp Arg Leu Ser Ala Pro Pro Leu Trp
 65 70 75 80
 Ser Ser Phe Arg Pro Lys Ala Ala Gly Leu Asp Arg Asp Val Phe Ser
 85 90 95
 Lys Gly Leu Glu Asp Asp Val Gln Asn Leu His Gln Leu His Ile Phe
 100 105 110
 Ile Glu Arg His Leu Asn Gly Gln Gly Phe Arg Gly Leu Trp Leu Val
 115 120 125
 Glu His Cys Gly Leu Leu Ala Gln Ala Leu Glu Arg Cys Gln Arg His
 130 135 140
 His Ser Ala Ala Glu Ile Leu Val Ala Ile Asn Ala Leu Val Ser Arg
 145 150 155 160

Leu Arg Arg Leu Gln Thr Ile Val Pro Trp Glu Leu His Leu Leu Gly
 165 170 175
 Met Tyr Tyr Ala Cys Leu Ser Tyr Ser Ala Ala Ala Leu Glu Arg His
 180 185 190
 Leu Arg Asp Leu Arg Ala Val Lys Leu Asn Pro Phe Gly Leu Ala Thr
 195 200 205
 Ser Leu Pro Leu Val Asp Ala Leu Tyr Met Ser Ile Arg Ser Phe Glu
 210 215 220
 Leu Gln Gly Asp Tyr Pro Asp Thr Gly Ser Met Leu Lys Gln Val Thr
 225 230 235 240
 Gly Glu Pro Cys Val Asn Asp Ala Ser Glu Val Thr Leu His Ser Phe
 245 250 255
 Leu Ser Trp Ala Ser Arg Gly Lys Ala Lys Val Gly Arg Tyr Phe Arg
 260 265 270
 Leu Leu Val Lys Leu Lys Ser Leu Glu Leu Leu Gln Ser Val Trp Gly
 275 280 285
 Asp Leu Val Arg Leu Leu Glu Pro Lys Ala Pro Glu Arg Arg Phe His
 290 295 300
 Asp Ala Tyr Ser Cys Ile Met Ala Leu Val Val Glu Gly Asp Val Thr
 305 310 315 320
 Arg Ala Thr Arg Tyr Leu Glu Glu Ile Ser Lys Arg Ala Gly Asn Val
 325 330 335
 Leu Pro Tyr Ile Ser Gly Phe Lys Asp Leu Asn Val Leu Leu Ala Asn
 340 345 350
 Gln Glu Val Cys Glu Leu Leu Ser Arg Leu Cys Gly Gly Asp Glu Tyr
 355 360 365
 Leu Lys Ile Leu Glu Val Tyr Leu Glu His Met Glu Arg Arg Leu Gly
 370 375 380
 Ile Lys Trp Leu Pro Glu Arg Ser Leu His Thr Ser Ile Ser Asn Leu
 385 390 395 400
 Ser Tyr Asn Ala Thr Gly Gln Pro Leu Leu Thr Met Asp Gly Asp Ser
 405 410 415
 Thr Gly Tyr Glu Ser Ser Glu Arg Leu Ile Ala Glu Met His Ala Leu
 420 425 430
 Gly Cys Ser Gly Ser Leu Ser Asp Leu Ile Arg Leu Ala Asn Cys Leu
 435 440 445
 Asp Glu His Gly Gly Glu His Ile Pro Val Val Gln Ser Ser Ala Glu
 450 455 460
 Asn Thr Pro Leu Glu Leu Ala Trp Val Pro Gln Arg Cys Pro Val Asp
 465 470 475 480
 Val Leu Asn Ser Ser Glu Val Arg Ser Gly Glu His Thr Thr Asn Ser
 485 490 495
 Pro Ser Ser Leu Gly Leu Ile Arg Leu Asp Pro Glu Asn Ala Gly Leu
 500 505 510
 Ser Pro Ala Asp Thr Arg Ser Leu His Leu Met Gln Leu Gly Tyr Leu
 515 520 525
 Ile Ile Lys Pro Lys Ala Ser Asn Ala Glu His Glu Trp Arg Glu Ser
 530 535 540
 Gly His Ile Val Ala Leu Asp Arg Ser Ser Gly Gln Leu Phe Ala Val
 545 550 555 560
 Phe Val Gly Lys Gly Gln Gly Pro Ile Ser Ala Gly Ile Gln Ser His
 565 570 575
 Ile Pro Arg Met Pro Phe Asp Leu Lys Ser Ile Met Lys Ile Glu Leu
 580 585 590
 Arg Ser Asp Leu Gly Gly Thr His Gln Gly Asp Asn His Ser Ser Pro
 595 600 605

13079

Ile Phe Asp Ile Thr Glu Cys Tyr Leu Asp Val Asp Pro Cys Lys Asp
 610 615 620
 Leu Val Ile
 625

<210> 33020
 <211> 91
 <212> PRT
 <213> A.fumigatus

<400> 33020
 Thr Val Gly Pro Val Arg Tyr Glu Ile Trp Asp Val Ser Gly Lys Gln
 1 5 10 15
 Lys Pro Thr Val Leu Ala Ser Arg Glu Phe Asp Asp Ile Asp Ala Ala
 20 25 30
 Ile Ile Met Phe Asp Leu Thr Asp Arg Val Ser Tyr Asn Asn Val Pro
 35 40 45
 Asn Trp Tyr Ser Met Tyr Ile Thr Asn His Val Glu Val Ala Leu Thr
 50 55 60
 Glu Leu Cys Arg Glu Pro Arg Lys Gln Gly Arg His Ala Pro Trp Glu
 65 70 75 80
 Val Tyr Ser His Leu His Leu Trp Glu Gln Lys
 85 90

<210> 33021
 <211> 406
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (399)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 33021
 Trp Ala Tyr Asn Gly Cys Leu Val Ser Asp Trp Phe Ala Thr Lys Ser
 1 5 10 15
 Cys Ala Pro Ser Ile Asn Ala Gly Leu Asp Leu Lys Met Pro Gly Pro
 20 25 30
 Thr Ile Leu Arg Gly Gln Lys Leu Val Ala Ala Val Arg Asp Gly Val
 35 40 45
 Val Asp Glu Lys Ala Val Asp Glu Cys Val Ser Arg Val Leu Ala Leu
 50 55 60
 Val Glu Lys Thr Arg Glu Ser His Ser Leu Glu Pro Glu Arg Ser Glu
 65 70 75 80
 Ile Ile Pro Glu Thr Asn Ala Leu Ala Leu Lys Ile Ala Ser Glu Gly
 85 90 95
 Ile Val Leu Leu Lys Asn Glu Gln Gly Val Leu Pro Leu Asp Met Arg
 100 105 110
 Arg Ala Pro Lys Ile Ala Val Ile Gly Val Pro Ala Ser Glu Pro Val
 115 120 125
 Val Ser Gly Gly Gly Ser Ala Ser Ala Pro Pro Gln Tyr Leu Gln Lys
 130 135 140
 Pro Leu Asp Tyr Leu Arg Asp Ala His Pro Phe Pro Ser Leu Val Lys
 145 150 155 160
 Tyr Ile Arg Gly Val Asn Thr Asn Arg Ile Ile Pro Ile Val Pro Leu

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                165                170                175
Asp Cys Thr Thr Ser Arg Asn Gly Ser Pro Gly Phe Asp Val Ala Tyr
                180                185                190
Tyr Asn Glu Asp Ser Asp Ile Pro Val Tyr Thr Glu His Gln Lys Thr
                195                200                205
Pro Val Val Ala Met Val Arg Asn Leu Lys Pro Gly Leu Thr Glu Pro
                210                215                220
Gly Phe Ser Cys Glu Ile Ser Thr Thr Ile Thr Pro Lys Thr Thr Gly
225                230                235                240
Pro His Thr Leu Ala Ala Arg Val Thr Gly Ser Phe Ser Leu Phe Val
                245                250                255
Glu Ser Lys Ala Val Leu Ser Val Pro Lys Gln His Glu Val Thr Met
                260                265                270
Glu Asp Phe Leu Phe Glu Pro Ala Arg Leu Glu His Arg Thr Ser Val
                275                280                285
Phe Met Glu Ala Gly Lys Pro Tyr Leu Val Arg Leu Leu Ser Arg Ala
                290                295                300
Arg Ile Pro Arg Glu Asn Asp Tyr Glu Pro Thr Pro His Gly Ala Thr
305                310                315                320
Leu Cys Tyr Glu Glu Phe Ser Asp Glu Arg Ala Ala Ile Ala Glu Ala
                325                330                335
Val Gln Ala Ala Phe Ser Ala Asp Val Ser Ile Ile Phe Ala Gly Arg
                340                345                350
Asn Gln Gln Tyr Glu Ser Glu Gly Phe Asp Leu Glu Ser Met Ser Ile
                355                360                365
Ser Glu Pro Gln Val Arg Leu Ile Arg Ala Val Thr Ala Val Ser Lys
                370                375                380
Lys Thr Val Leu Val Leu Asn Ser Gly Asn Pro Val Phe Asn Xaa Arg
385                390                395                400
Pro Glu Gly Thr Asp Leu
                405

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<210> 33022

<211> 185

<212> PRT

<213> A.fumigatus

<400> 33022

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Leu Val Asp Ser Val Asn Gly Val Lys Gly Ser Glu Leu His His Gly
1                5                10                15
Val Pro Thr Ala Ile Phe Pro Ser Ser Thr Leu Tyr Gly Ala Thr Trp
                20                25                30
Asn Asn Thr Leu Met Glu Glu Leu Gly Arg Ala Leu Ala Tyr Gln Ala
                35                40                45
Lys Leu Lys Ser Ala Gln Val Ile Leu Gly Pro Thr Ile Asn Ile His
50                55                60
Arg Asp Pro Arg Gly Gly Arg Asn Phe Glu Cys Phe Ser Glu Asp Pro
65                70                75                80
Leu Leu Ser Gly Gln Leu Ala Ala Gly Val Val Arg Gly Ile Gln Ser
                85                90                95
Gln Gly Val Ala Ala Cys Pro Lys His Phe Ala Cys Asn Glu Ser Glu
                100                105                110
Phe Lys Arg Arg Glu Tyr Ser Val Ala Gln Ser His Asn Ser Arg Ala
                115                120                125
Val Arg Glu Ile Tyr Leu Ala Ala Phe Gln Glu Met Leu Arg Arg Ser
130                135                140

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13081

Glu Pro His Gly Leu Met Val Arg Tyr Val Ser Arg Pro Ser Ser Ser
 145 150 155 160
 Val Tyr Ile Leu Leu Leu His Val Phe Asp Val Tyr Trp Met Ile Phe
 165 170 175
 Leu Met Pro Ala Ile Ala Thr Ile Asn
 180 185

<210> 33023

<211> 133

<212> PRT

<213> A.fumigatus

<400> 33023

Ser Ile Ser Trp Gly Leu Ile Thr Thr Gly Tyr Ser Cys Pro Asn Met
 1 5 10 15
 Gln Val Lys Ser Glu Ser Ser Val Pro Val Met Gly Asn Leu Lys Thr
 20 25 30
 Val Asn Ala Thr Val Asp Glu Val Phe Asp Leu Ser Arg Ala Gly Thr
 35 40 45
 Pro Ser Ser Gln Asp Glu Ser Ala Arg Glu Asp Ala Ala Pro Ser Val
 50 55 60
 Gln Pro Asn Phe Thr Ser Leu Leu Pro Gln Leu Thr Leu Glu Glu Lys
 65 70 75 80
 Val Gly Leu Leu Ser Gly Thr Asp Phe Val His Ser Ser Gly Val Ser
 85 90 95
 Arg Leu Asn Ile Pro Pro Leu Lys Val Tyr Glu Ser Ser Ala Met Ala
 100 105 110
 Arg Pro Val Arg Ser Ile Val Gln Leu Thr Trp Leu Pro Arg Ser Ser
 115 120 125
 Ser Ser Ser Thr Arg
 130

<210> 33024

<211> 687

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (613), (635), (648), (681)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33024

Cys Asn Gly Glu Val Asp Ile Ser Ser Leu Glu Leu Ile Phe Trp Phe
 1 5 10 15
 Trp Ser Ala Gly Phe Met Leu Asp Glu Ile Val Gly Phe Asn Glu Gln
 20 25 30
 Gly Phe Ser Leu Tyr Leu Met Ser Phe Trp Asn Leu Phe Asp Leu Gly
 35 40 45
 Ile Leu Phe Leu Leu Phe Cys Tyr Tyr Cys Met Arg Leu Tyr Gly Ala
 50 55 60
 Leu Met Pro Ser Pro Tyr Asn His Ala Ile Ala Asp Arg Ala Tyr Asp
 65 70 75 80
 Ile Leu Ala Ala Asn Ala Val Leu Leu Phe Pro Arg Leu Phe Ser Val
 85 90 95
 Leu Asp His Tyr Arg Tyr Phe Ser Gln Leu Leu Ile Ala Phe Arg Ile

[illegible]

13083

545		550		555		560
Gly Asp Asp Ala Ala Thr Ala Thr Ser Val Asp Gln Trp Met His Arg						
	565			570		575
Arg His Ser Leu Asp Val Gly Val Ser Gln Asn Val Ala Leu Ala Arg						
	580			585		590
Ser Asn Pro Met Ser Val Pro Asp Leu Gly Ser Phe Leu Gln Thr Lys						
	595		600		605	
Ser Gln His Arg Xaa Arg Arg Gln Ala Ser His Leu Tyr Gly Leu Gly						
	610		615		620	
Ser Asp Leu Gly Asp Asn Arg Ala Ile Ala Xaa Gly Phe Leu Gly Cys						
625		630		635		640
Phe Ala Cys Ser Phe Thr Thr Xaa Met Glu Tyr Ala Ala Gly Gly Ile						
	645		650		655	
Pro Arg Pro Asp Ser Ser Gly Ser Asn Gln Asp Met Leu Ser Lys Leu						
	660		665		670	
Val Leu Ala Arg Met Asn Asn Ile Xaa Glu Gly Ser Val Arg Cys						
	675		680		685	

<210> 33025

<211> 110

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (28)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33025

Pro Ser Ser Phe Val Ile Gln Pro Trp Arg Ser His Leu Ser Ala Ala														
1		5				10					15			
Pro Trp Lys Ser Ser Arg Gln Ser Gly Phe Met Xaa Ser Val Glu Thr														
	20					25					30			
Ile Gly Thr His Asp Thr Asn Leu Thr Leu Lys Trp Thr Arg Met Leu														
	35				40					45				
Tyr Asp Trp Cys Leu Glu His Pro Asp Leu Pro Gly Asn Pro Leu Val														
	50				55				60					
Leu Asp Ala Gln Asp Ile Ile Pro His Pro His Val Lys Val Arg Tyr														
65				70				75					80	
Cys Glu Lys Thr Val Leu Thr Pro Asn Pro Leu Asn Phe Asp Cys Glu														
	85					90							95	
Asn Lys Pro Gln Pro Lys Gly Leu Lys Leu Lys Leu Ser Lys														
	100					105							110	

<210> 33026

<211> 81

<212> PRT

<213> A.fumigatus

<400> 33026

Leu Gly Leu Leu Asp Ile Trp Ile Pro Leu Ser Gly Thr Lys Pro Leu														
1		5				10					15			
Ile Lys Tyr Tyr Ser Ile Trp Pro Val Asp His Gln Cys Gly Leu Thr														
	20					25					30			
Ser Thr Val Gly Gly Thr Gln Pro Leu Ile Ala Trp Glu Ser Leu Pro														
	35					40					45			

13084

Thr	Val	Ala	Gln	Thr	Ala	Leu	Glu	Asp	Thr	Asp	Phe	Gly	Asp	Ala	Asn
50						55					60				
Val	Pro	Phe	Lys	Asn	Ala	Asn	Phe	Ala	Ser	Asn	Leu	Ala	Lys	Ala	Thr
65				70					75						80
Phe															

<210> 33027

<211> 205

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (198)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33027

Ser	Phe	Phe	Trp	Cys	Tyr	Ser	Thr	Ser	Leu	Pro	Ile	Met	Ala	Asp	Gly
1				5					10					15	
Asn	Ile	Ser	Pro	Ser	Arg	Ser	Arg	Leu	Leu	Leu	Ile	Ser	Val	Pro	Arg
			20					25					30		
Thr	Ala	Ser	Asn	Leu	Met	Leu	Lys	Leu	Leu	Asn	Val	Pro	Cys	Gln	Lys
			35				40					45			
Leu	Val	Thr	Ser	Glu	Arg	Gly	Gly	Tyr	Phe	Phe	Phe	Asn	Ala	Phe	Leu
	50					55					60				
Lys	Val	Ser	Gly	Asp	Gly	His	Arg	Cys	Val	Pro	Ile	Gly	Glu	Arg	Asn
65				70					75					80	
Glu	Ala	Glu	Lys	Arg	Glu	Ile	Arg	Asp	Ala	Phe	Gln	Glu	Ala	Val	Asp
			85					90						95	
Ala	Leu	Glu	Asp	Cys	Ser	Glu	Arg	Ala	Glu	Arg	Glu	Gly	Lys	Ile	Ala
		100						105					110		
Phe	Ala	Lys	Glu	His	Ala	Phe	Trp	Phe	Thr	Asn	Pro	Ala	Val	Leu	Gly
		115					120					125			
Asn	Val	Thr	Glu	Asp	Ala	Ala	Ser	Phe	Arg	Pro	Arg	Ile	Pro	Asp	Lys
	130					135				140					
Tyr	Gly	Pro	Ser	His	Thr	Phe	Ser	Ser	Leu	Asn	His	Thr	Val	Leu	Pro
145				150					155					160	
Asp	Glu	Tyr	Leu	Arg	Thr	Trp	Arg	Leu	Thr	Phe	Ile	Ile	Arg	His	Pro
			165					170					175		
Ala	Leu	Ala	Phe	Pro	Ser	Leu	Cys	Arg	Ala	Met	Glu	Lys	Phe	Pro	Ala
		180						185					190		
Lys	Arg	Leu	Tyr	Ala	Xaa	Gly	Gly	Asn	His	Arg	His	Ala			
	195						200					205			

<210> 33028

<211> 120

<212> PRT

<213> A.fumigatus

<400> 33028

Glu	Glu	Ile	Ala	Ala	Met	Lys	Arg	Arg	Val	Ala	Glu	Met	Glu	Ser	Glu
1				5					10				15		
Ala	Ala	Lys	Leu	Arg	Glu	Met	Gln	Ala	Thr	Leu	Asp	Gln	Gln	Ser	Glu
			20					25				30			
Ser	Leu	Arg	Glu	Asp	Lys	Glu	Glu	Ile	Asp	Ala	Arg	Ser	Ile	Phe	Val

13085

	35					40						45					
Gly	Asn	Val	Asp	Tyr	Gly	Ala	Ser	Pro	Glu	Glu	Ile	Gln	Ala	His	Phe		
	50					55					60						
Gln	Ser	Cys	Gly	Ser	Ile	Asn	Arg	Val	Thr	Ile	Leu	Leu	Asp	Lys	Phe		
65					70					75					80		
Thr	Gly	Gln	Pro	Lys	Gly	Cys	Val	Met	Pro	Ile	Ser	Ser	Lys	Lys	Asp		
				85					90					95			
Gly	Gly	Cys	Leu	Arg	Arg	Cys	Leu	Leu	Ser	Trp	Ile	Ser	Thr	Pro	Lys		
			100					105					110				
Ile	Cys	Ile	Met	Ala	Ala	Asp	Cys										
	115						120										

<210> 33029
 <211> 96
 <212> PRT
 <213> A.fumigatus

Gly	Val	Thr	Lys	Gly	Ser	Thr	Ala	Val	Leu	Thr	Leu	Gly	Val	Ser	Cys		
1			5						10					15			
Gly	Arg	Val	Arg	Ser	Ile	Thr	Phe	Ile	Ala	Ser	Gly	Gly	Ile	Leu	Lys		
		20					25					30					
His	Ile	Ser	Ala	His	Asp	Thr	Gln	Gly	Cys	Phe	Arg	Ile	Arg	Trp	Met		
		35				40					45						
Val	Ser	Cys	Leu	Glu	Lys	Lys	Thr	Lys	Asn	Asn	Met	Lys	Leu	His	Glu		
	50				55					60							
Pro	Ser	Leu	Met	Lys	Ile	Asp	Ser	Ile	Asn	Gly	Leu	Leu	Arg	Ile	Tyr		
65				70					75						80		
Arg	Ser	Ser	Gln	Ala	Ala	Arg	Ser	His	Tyr	Phe	Trp	Val	Val	Pro			
			85					90					95				

<210> 33030
 <211> 481
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 <213> A.fumigatus

Arg	Ile	Gly	Leu	Pro	Thr	Ile	Gly	Ser	Pro	Pro	Glu	Gln	Glu	Arg	Pro		
1			5						10					15			
Pro	Pro	Pro	Pro	Pro	Thr	Lys	Ile	Asp	Phe	Pro	Val	Tyr	Asp	Leu	Leu		
		20					25					30					
Asp	Val	Pro	Gly	Asp	Ala	Ser	Glu	Ser	Ser	Leu	Arg	Glu	Ile	Ala	Asp		
		35				40					45						
Leu	Leu	Ala	Ser	Ile	Arg	Arg	Pro	Gln	Asp	Leu	Ser	Thr	Glu	Lys	Leu		
	50				55					60							
Lys	Ala	Phe	Asn	Leu	Arg	Met	Glu	Thr	Asn	Ile	Thr	Ala	Asp	Arg	Ile		
65				70					75						80		
Val	Pro	Gln	Gly	Ser	Lys	Leu	Phe	Pro	Pro	Leu	Pro	Trp	Glu	Ala	Arg		
			85					90					95				
Val	Cys	Asn	Glu	Thr	Glu	Asp	Gly	Glu	Pro	Ile	Leu	Met	Asp	Asn	Gly		
		100					105					110					
Asn	Pro	Tyr	Pro	Ala	Ala	Asp	Arg	Phe	Glu	Ile	Leu	Lys	Lys	Glu	Leu		
	115					120						125					
Leu	Leu	Asp	Asn	Asp	Asp	Ala	Phe	Arg	Glu	Val	Thr	Arg	Leu	Pro	Pro		
	130					135					140						
Lys	Glu	Gly	Arg	Gln	Arg	Val	Arg	Val	Ala	Asn	Ala	Arg	Lys	Phe	Trp		

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145          150          155          160
Met Gly Leu Glu Arg Met Ser Gln Trp Trp Asp Ser Ser Leu Asp Asn
          165          170          175
Tyr Phe Glu Arg Leu Ala Ile Pro Glu Glu Ala Ser Asn Glu Asp Lys
          180          185          190
Met Gln Thr Asp Gly Glu Pro Gln Pro Ser Gly Ile Gln Glu Ser Thr
          195          200          205
Thr Thr Pro Met Glu Val Asp Ser Pro Pro Thr Thr Gln Thr Val Asp
          210          215          220
Gly Thr Ser Ser Asp Pro Glu Glu Gly Gln Gln Pro Thr Val Gln Arg
225          230          235          240
Tyr Thr Gly Arg Arg Ile Gly Asn Gly Gln Glu Met Pro Glu Asp Val
          245          250          255
Arg Glu Glu Thr Val Arg Ala Leu Ala Glu Met Ala Ala Trp Pro Phe
          260          265          270
Gly Cys Gln Val Thr Val Pro Met Leu Pro Pro Arg Leu Thr Val Lys
          275          280          285
Lys Ile Leu Phe Pro Ile Arg Gln Ser Phe Gln Ala Ala Arg Ser Pro
          290          295          300
Lys Asp Arg Gln Leu Ala Arg Asn Gly Val Met Glu Gly Pro Val Phe
305          310          315          320
Val Ala Gln Cys Arg Pro Glu Thr Ser Phe Arg Gly Pro Gly Asp Ala
          325          330          335
Pro Gly Thr Gly Val Gly Glu Val Cys Asp Leu Phe Gln Glu Leu Gly
          340          345          350
Ala Met Leu Leu Ala Ala Gln Glu Arg Ala Arg Gln Gly Thr Thr Glu
          355          360          365
Val Lys Ala Gly Glu Gly Lys Trp Trp Ala Thr Lys Pro Arg Trp Gly
          370          375          380
Gly Ala Thr Gln Asp Thr Gln Asp Asn Ser Asn Cys Glu Asp Gln Ser
385          390          395          400
Val Arg Asp Gly Asn Asp Arg Lys Arg Ser Lys Tyr Glu His Pro Phe
          405          410          415
Val Ala Ser Arg Arg Pro Gly Ser Gly Arg Lys Leu Ser Asn Ala Glu
          420          425          430
Lys Trp Lys Ile Val Gln Pro Gly Pro Ser Leu Trp Asp Lys Arg Met
          435          440          445
Arg Tyr Ile Gln Ile Gly Lys Asp Lys Asp Ser Pro Phe Asp Asp Val
          450          455          460
Cys Leu Ile Thr Asp Gly Arg Cys Glu Pro Met Leu Ile Leu Asn Leu
465          470          475          480
Ile

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<210> 33031

<211> 65

<212> PRT

<213> A.fumigatus

<400> 33031

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Ser Thr Val Pro Phe Thr Gln Asn Gly Pro Leu Thr Arg Arg Arg Val
1          5          10          15
Ala Gly Arg Asp Ser Pro Gln Pro Leu Gly Ser Gly Asn Pro Leu Gly
          20          25          30
Ile Ser Gly Asn Tyr Asp Arg Leu Pro Phe Ala Pro Tyr Phe Val Leu
          35          40          45

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13087

Ala Ser Val Val Ala Gly Ser Leu Leu Gln Ser Gly Phe Gly Asp Gly
50 55 60

Lys
65

<210> 33032
<211> 201
<212> PRT
<213> A.fumigatus

<400> 33032

Leu Ser Ser Ala Trp Thr Arg Leu Asn His Ser Cys Asp Gln His Asn
1 5 10 15
Asp His Asp His Arg Asn Gln Ala Arg Thr His Gly Arg Pro Phe Glu
20 25 30
Thr Ala Met His Trp Thr Gln Leu Gly Thr Pro Gln Leu Arg Glu Asn
35 40 45
Asn Gly Trp Thr Thr Gly Asn Ser Ser Pro Val Tyr Gln Thr His Gly
50 55 60
Ser Asp Leu Ser Arg Leu Thr Ile Glu Thr Ile Leu Ser Trp Ser Val
65 70 75 80
Phe Glu Gly Lys Tyr Asp Ala Gly Pro Ser Leu Thr Asp Leu Leu Ser
85 90 95
Ser Pro Thr Thr Leu Ser Gln Glu Pro Phe Leu Ala Ser Ile Asp Pro
100 105 110
Arg His Glu Arg Leu Asp Leu Asp Leu Arg Thr Cys Thr Arg Leu Leu
115 120 125
His Thr Phe Leu Glu Glu Val His Ile Ala Asn Pro Ile Leu Asp Gly
130 135 140
Pro Leu Val Thr Gly Tyr Leu Tyr Gln Ala Cys Ile His Gly Ile Gly
145 150 155 160
Trp Asp Ala Pro Ser Cys Leu Val Val Gly Leu Ser Phe Pro Ser Glu
165 170 175
Ala Ala His Ser Leu Thr Arg Thr Ala Leu Pro Ala Ala His Met Cys
180 185 190
Leu Gly Arg Asn Leu Arg Lys Leu Ser
195 200

<210> 33033
<211> 141
<212> PRT
<213> A.fumigatus

<400> 33033

Arg Gly Asp Ser Leu Ala Cys Leu Lys Ala Lys Trp Ile Thr Gly Leu
1 5 10 15
Tyr Met Gly Ser Phe Ala Thr Asn Pro Thr Arg Trp Thr Leu Ile Asp
20 25 30
Leu Arg Pro Pro Pro Leu Cys Gln Thr Arg Ser Val Gly Phe Ser
35 40 45
Ser Pro Leu Tyr Ser Trp Thr Leu Leu Pro Phe Leu Leu Ala Val Asp
50 55 60
Thr Gly Met Ala Thr Lys Gln Pro Ser Arg Gly Pro Ala Ala Tyr Pro
65 70 75 80
Arg Arg Arg Ala Val Arg Ala Cys Gln Val Cys Arg Ala Arg Arg Thr
85 90 95

13088

Lys Cys Asp Asn Lys Thr Pro Ala Cys Ser Phe Cys Glu Lys Ile Gly
 100 105 110
 Ala Lys Cys Val Val Asn Asp Pro Thr Asp Met Ser Val His Ala Thr
 115 120 125
 Arg Val Glu Asp Leu Cys Gly Cys Phe Ser Phe Gln Arg
 130 135 140

<210> 33034
 <211> 246
 <212> PRT
 <213> A.fumigatus

<400> 33034
 Ala Thr Thr Cys Ser Ser Ile Asn Arg Arg Ser Gly Gln Val Ile Phe
 1 5 10 15
 Gly Pro Pro Ser Val Asp Leu Val Val Leu Leu Gln Arg Gln Cys
 20 25 30
 His Arg Met Val Arg Pro Arg Asn Pro Thr Val Val Arg Arg Phe Leu
 35 40 45
 Ser Asn Ala Val Thr Ser Arg Gly Phe Asp Pro Gln Val Asn Gly Ala
 50 55 60
 Val Leu Ser Ile Pro Ser Phe Gly Arg Asp Phe Gly Glu Gln Tyr Asp
 65 70 75 80
 Gly Gly Phe Val Val Pro Ala Pro Trp Leu Ser Ala Phe Asn Ser Ile
 85 90 95
 Ser Ser Val Gly Gln Phe Phe Gly Gly Phe Leu Cys Ser Thr Ile Ala
 100 105 110
 Asp Arg Val Gly Arg Arg Leu Ala Leu Ala Val Gly Val Val Ile Thr
 115 120 125
 Cys Gly Gly Ile Phe Gly Glu Leu Phe Ser Thr Ala Arg Ala Ala Phe
 130 135 140
 Leu Ile Ser Lys Leu Ile Leu Gly Val Gly Leu Gly Phe Tyr Leu Thr
 145 150 155 160
 Ile Gly Pro Leu Tyr Ser Ser Glu Ala Ser Tyr Val Gln Tyr His Asp
 165 170 175
 Ser Arg Ile Met Ser Leu Thr Arg Ser Gln Gln Val Ser Pro Val Val
 180 185 190
 Leu Arg Gly Ile Thr Thr Ala Gly Val Asn Leu Gly Ile Val Ile Gly
 195 200 205
 Gln Leu Leu Ser Asn Ala Ala Ile Arg Gly Phe Gly Glu Arg Gly Asp
 210 215 220
 Lys Trp Ala Tyr Arg Gly Pro Phe Ala Ile Gln Phe Phe Phe Val Gly
 225 230 235 240
 Met Phe Ser Gly Val Tyr
 245

<210> 33035
 <211> 157
 <212> PRT
 <213> A.fumigatus

<400> 33035
 Ser Arg Arg Arg Arg Asp Arg Leu Arg Arg Arg Gly His His His Leu
 1 5 10 15
 Leu Asp His Arg Gln Pro Pro Gly Pro Pro His His Leu Gln Leu Arg
 20 25 30

His Gly His Pro Gln His Asp Gln Ser Ala His Arg His Pro Arg Arg
 35 40 45
 Arg Pro His Pro Arg Arg Glu Leu Asp Thr Gly Arg Ala Asp Arg Arg
 50 55 60
 Leu Gly Leu Leu Leu Pro Gly Gln His Arg Arg Arg Gly Leu Cys Ala
 65 70 75 80
 Ala Arg Gly Asn Leu Val Ala Val Ser Thr Ser Gln Asp Asn Arg Arg
 85 90 95
 Gly Asn Arg Asn Ala Gly Arg Leu Arg His Arg His Glu His Cys Ala
 100 105 110
 Ser Val His Gly Glu Pro Gly Arg Gly Gln Tyr Ala Gly Gln Gly Arg
 115 120 125
 Ile Cys Leu Trp Arg Ala Arg Gly Asp Arg His Arg Ala Val Leu Leu
 130 135 140
 Val His Ser Arg Leu Glu Gly Ser His Phe Arg Gly Asp
 145 150 155

<210> 33036

<211> 274

<212> PRT

<213> A.fumigatus

<400> 33036

Gln Gly Pro Lys Pro Leu Leu Lys Gly Leu Tyr Gly Ala Asp Arg Ile
 1 5 10 15
 Ile Lys Pro Lys Leu Val Ala Ile Gln Met Thr Val Ala Gln Asp Leu
 20 25 30
 Ala Ala Lys Glu Ser Lys Trp Ser Asp Ala Val Arg Gly Thr Asn Arg
 35 40 45
 Val Arg Thr Leu Ile Ser Gly Val Phe Val Cys Gln His Leu Val
 50 55 60
 Gly Ile Ile Phe Val Leu Gly Phe Ser Ser Tyr Phe Phe Gln Leu Ala
 65 70 75 80
 Gly Leu Pro Thr Glu Arg Ser Phe Asp Leu Gly Val Gly Val Thr Ala
 85 90 95
 Cys Gly Val Val Gly Thr Ile Ile Ser Trp Thr Ile Val Asn Arg Leu
 100 105 110
 Gly Arg Arg Ile Ile Phe Asn Ser Gly Met Ala Ile Leu Ser Thr Ile
 115 120 125
 Asn Leu Leu Ile Gly Ile Leu Asp Val Val Pro Thr Arg Gly Ala Ser
 130 135 140
 Trp Thr Gln Ala Ala Leu Thr Val Val Trp Ala Phe Phe Tyr Gln Val
 145 150 155 160
 Ser Ile Gly Ala Val Ala Phe Val Leu Leu Gly Glu Thr Ser Ser Pro
 165 170 175
 Ser Leu Arg Ala Lys Thr Thr Ala Val Ala Thr Ala Thr Gln Ala Val
 180 185 190
 Phe Gly Ile Val Met Asn Ile Val Leu Pro Tyr Met Val Asn Pro Asp
 195 200 205
 Glu Gly Asn Met Gln Gly Lys Val Gly Phe Val Phe Gly Gly Leu Gly
 210 215 220
 Val Ile Ala Thr Val Leu Cys Tyr Leu Tyr Ile Pro Asp Leu Lys Gly
 225 230 235 240
 Arg Thr Phe Glu Glu Ile Asp Leu Met Phe Asp Ile Arg Val Pro Pro
 245 250 255
 Arg Lys Met Gly Gly Tyr Val Ser Ser Pro Gly Ala Gly Arg Ser Arg

260 265 270

Ala Asn

<210> 33037
 <211> 83
 <212> PRT
 <213> A.fumigatus

<400> 33037
 Asn Met Ala Ile Glu Thr Ser Ala Asp His Ser Thr Val Glu Thr Val
 1 5 10 15
 His Ala Asp Ser Ala Asp Val Ala Ala Asp Pro Gly Ala Lys Ser Ala
 20 25 30
 Leu Val Ser Asp Asn Val Phe Glu His Gln Gln Thr Val Arg Pro Gly
 35 40 45
 Asp Phe Arg Pro Thr Gln Cys Gly Ser Gly Gly Arg Ser Ser Ser Thr
 50 55 60
 Ser Val Pro Ser Asp Gly Thr Ser Lys Lys Pro Asn Ser Arg Ser Ala
 65 70 75 80
 Ile Pro Val

<210> 33038
 <211> 194
 <212> PRT
 <213> A.fumigatus

<400> 33038
 Phe Leu Ala Leu Leu Ala Asn Met Ser Thr Ser His Asn Glu Pro Ala
 1 5 10 15
 Glu Pro Ile Pro Asp Gly Ile Ile Ala Thr Ala Lys Gln Ser Phe Gly
 20 25 30
 Asp Leu Phe Arg Trp Lys Gln Arg Val Val Val Thr Asn Glu Ser Gly
 35 40 45
 Glu Thr His Ala Glu Trp Gln Ala Pro Glu Pro Ile Gln Asn Pro Ile
 50 55 60
 Ser Leu Leu Met Gln Leu Gly Ala Arg Asp Trp Arg Phe Phe Leu Val
 65 70 75 80
 Gly Phe Phe Ala Trp Thr Ala Asp Ala Phe Asp Phe His Ala Leu Ser
 85 90 95
 Ile Gln Thr Val Lys Leu Ser Lys Tyr Tyr His Arg Ser Lys Thr Asp
 100 105 110
 Ile Ser Thr Ala Ile Thr Leu Thr Leu Leu Leu Arg Ser Val Gly Ala
 115 120 125
 Ala Phe Phe Gly Leu Ala Gly Asp Arg Phe Gly Arg Lys Trp Pro Met
 130 135 140
 Val Ile Asn Met Ile Val Leu Gly Ile Leu Gln Ile Ala Thr Ile Tyr
 145 150 155 160
 Ser Arg Thr Phe Gln Gln Phe Leu Ala Val Arg Ser Leu Phe Gly Leu
 165 170 175
 Phe Met Gly Gly Val Tyr Gly Asn Ala Ile Ala Met Ala Leu Glu His
 180 185 190
 Cys Pro

<210> 33039
 <211> 65
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (50)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 33039
 Ser Glu Leu Glu Ala Asp Glu Leu Thr Ala Gly Ala Ser Ile Gly Val
 1 5 10 15
 Gly Leu Val Arg Ile Cys Phe Pro Lys Ser Lys Gln Phe Leu Glu Ala
 20 25 30
 Lys Asn Ala Gly Lys Lys Ala Thr Asp Pro Gly Ala Phe Trp Arg Glu
 35 40 45
 Thr Xaa Gln Met Leu Gly Lys Glu Trp Lys Met Cys Ile Tyr Cys Val
 50 55 60
 Phe
 65

<210> 33040
 <211> 254
 <212> PRT
 <213> A.fumigatus

<400> 33040
 Gln Leu Pro Gln Val Ser Ile Phe Cys Ser Cys Leu His Val Pro Arg
 1 5 10 15
 Asp Asp His Ser Asn Ala Thr His Arg Trp Leu Phe Val Pro Arg Ser
 20 25 30
 Cys Cys Val Leu Tyr Val Pro Glu Arg His Gln His Leu Ile Arg Thr
 35 40 45
 Thr Ile Pro Thr Ser Trp Gly Tyr Ile Pro Ser Pro Asp Ala Pro Glu
 50 55 60
 Thr Thr Pro Ser Ile Met Lys Ser Asp Asp Pro Ser Lys Thr Pro Phe
 65 70 75 80
 Glu Ser Leu Phe Glu Phe Val Ala Thr Asn Asp Asp Ala Pro Tyr Phe
 85 90 95
 Cys Val Pro Ala Ala Leu Lys Phe Arg Asn Glu Ile Cys Gly Gly Glu
 100 105 110
 Glu Arg Ile Tyr Thr Tyr Leu Glu Thr Leu Ala Asn Glu Ala Ala Asp
 115 120 125
 Leu Leu Ala Ala Val Leu Asp Thr Glu Val Leu Gln Glu Pro Asn Arg
 130 135 140
 Lys Ser Gly Val Pro Ser Gln Leu Arg Arg Cys Gly Met Ser Thr Val
 145 150 155 160
 Gln Leu Pro Ile Ala Ile Gln Gly Arg Pro Gly Pro Ile Lys Pro Ser
 165 170 175
 Tyr Leu Val Leu Gln Ala Asp Lys Val Ala Ser Thr Ile Asn Trp Phe
 180 185 190
 Gln Thr Thr Leu Ala His Lys Tyr Gly Thr Phe Val Pro Val Phe Ala
 195 200 205
 His Gly Asn Arg Leu Trp Thr Arg Leu Ser Ala Gln Val Tyr Leu Glu
 210 215 220

13092

Ile Ser Asp Phe Ala Trp Leu Ala Gly Val Leu Lys Glu Met Cys Gly
 225 230 235 240
 Glu Leu Arg Ser Lys Gln Gly Gly Val Asp Gln Arg Leu Arg
 245 250

<210> 33041
 <211> 441
 <212> PRT
 <213> A.fumigatus

<400> 33041
 Arg Ser Ser Glu Ser Pro Arg Pro Met Thr Met Cys Ala Gly Leu Arg
 1 5 10 15
 Lys Gly Ser Phe Thr Leu Leu Val Asn Phe Leu Asp Lys His Pro Gln
 20 25 30
 Val Glu Phe Ile Arg Tyr Gln Trp Ile Asp Tyr Ala Gly Ile Ile Arg
 35 40 45
 Ala Arg Val Val Pro Val Ser Asn Ala Leu Lys Leu Ala Ser Thr Glu
 50 55 60
 Ser Pro Leu Cys Gly Gly Arg Ile Cys Leu Thr Ala Thr Asn Val Ile
 65 70 75 80
 Arg Met Met Glu Asn Arg Ser His Val Gly Val Asp Ser Ile Tyr Pro
 85 90 95
 Asp Phe Ser Ser Leu Arg Glu Cys His Tyr Ala Pro Gly His Ala Ser
 100 105 110
 Val Met Cys Phe Ile Ser Glu Gly Asp Met Gly Phe Glu Arg Asp Pro
 115 120 125
 Arg Thr Leu Leu Gly Ser Ile Val Ala Ser Ala Pro Gln Val Gln Phe
 130 135 140
 Arg Ile Gly Phe Glu Val Glu Phe Arg Cys Leu Thr Pro Glu Gly Lys
 145 150 155 160
 Asp Leu Asp Asp Thr Leu Tyr Ser Trp Trp Thr Thr Gly Leu Arg
 165 170 175
 Asn Arg Cys Ala Pro Ile Ile Asp Glu Val Val Arg Leu Leu Gln Arg
 180 185 190
 Glu Lys Ile Glu Val Leu His Tyr Cys Ser Glu Ser Gly Leu Gly Met
 195 200 205
 Phe Glu Ile Ala Thr Gly Pro Leu Ser Pro Leu Glu Ser Ile Asp Ala
 210 215 220
 Trp Val Tyr Thr Arg Glu Ala Val Lys Ser Leu Phe Trp Glu His Gly
 225 230 235 240
 Met Ile Ala Thr Leu Tyr Pro Ser Pro Val Glu Val His Thr Gly Ile
 245 250 255
 Gly Ala His Phe His Leu Ser Met Thr Ser Asp Leu Glu Val Asp Glu
 260 265 270
 Ser Ala Phe Leu Ala Gly Met Leu Gly Gln Leu Gly Gly Leu Cys Ala
 275 280 285
 Leu Ala Met Pro Phe Glu Asp Ser Tyr Lys Arg Val Thr Asp Arg Lys
 290 295 300
 Ser Glu Ala Gly Cys Trp Ile Gly Trp Gly Thr Glu Asn Arg Asp Phe
 305 310 315 320
 Pro Ile Arg Lys Val Lys Lys Arg His Trp Glu Val Arg Cys Cys Asp
 325 330 335
 Ala Thr Ala Asn Leu Tyr Leu Val Val Ala Gly Phe Ile Asn Ala Gly
 340 345 350
 Leu Gly Gly Leu Gln Thr Gly Lys Gln Leu Val Trp Gln Asp Cys Asn

13093

355 360 365
 Ser Asn Pro Val Ala Leu Asp Glu Glu Thr Arg Arg Glu Leu Gly Ile
 370 375 380
 Arg Gln Arg Met Pro Thr Asp Leu Ser Glu Ser Leu Arg Glu Leu Glu
 385 390 395 400
 Lys Trp Asp Gly Gly Ala Met Gly Lys Cys Leu Arg Thr Phe Cys Glu
 405 410 415
 Met Lys Lys Gln Glu Ile Arg Asp Leu Gly Glu Val Ser Asp Glu Arg
 420 425 430
 Arg Leu Arg Asp Met Ile Arg His Phe
 435 440

<210> 33042
 <211> 204
 <212> PRT
 <213> A.fumigatus

<400> 33042
 Tyr Leu Arg Tyr Gly Ser Gly Ser Phe Gly Thr Tyr Pro Thr Ala Val
 1 5 10 15
 Arg Glu Ala Leu Arg Gly Phe Gln Asp Ala Ala Glu Ala Arg Pro Asp
 20 25 30
 Pro Phe Ile Arg Tyr Thr Thr Pro Lys Ala Leu Asp Ala Ser Arg Glu
 35 40 45
 Ala Ile Ala Lys Met Leu Asn Val Pro Arg His Glu Cys Val Phe Val
 50 55 60
 Lys Asn Ala Thr Thr Gly Val Asn Thr Ile Leu Gln Asn Ile Pro Phe
 65 70 75 80
 Gln Ser Gly Asp Val Ile Ile Tyr Phe Glu Thr Ile Tyr Gly Ala Leu
 85 90 95
 Glu Lys Gly Ile Ile Ala Leu Met Glu Ser Thr Pro Leu Gln Ala Arg
 100 105 110
 Lys Val Gln Tyr Gln Cys Pro Ile Ser His Gly Asp Leu Val Glu Gln
 115 120 125
 Phe Leu Glu Val Val Arg Asn Thr Arg Ala Glu Gly Leu Asn Val Lys
 130 135 140
 Ile Ala Leu Phe Asp Val Val Ser Ser Leu Pro Ala Met Arg Phe Pro
 145 150 155 160
 Phe Glu Arg Leu Thr Asp Val Cys Arg Glu Glu Gly Ile Leu Ser Leu
 165 170 175
 Ile Asp Gly Ala His Gly Ile Gly Gln Ile Pro Leu Asp Leu Gly Arg
 180 185 190
 Leu Gln Pro Asp Phe Phe Thr Ser Asn Cys His Lys
 195 200

<210> 33043
 <211> 82
 <212> PRT
 <213> A.fumigatus

<400> 33043
 Arg Gln Asp Leu Gly Cys Glu Phe Val Glu Ala Ser Ala Lys Asn Cys
 1 5 10 15
 Ile Asn Val Glu Lys Ala Phe Tyr Asp Val Val Arg Met Leu Arg Gln
 20 25 30
 Gln Arg Gln Gln Gln Gln Gly Gly Arg Ala Gln Asp Arg Arg Pro Thr

13094

	35					40					45								
Gly	Leu	Gly	Pro	Met	Arg	Asp	Arg	Asp	Ala	Gly	Pro	Glu	Tyr	Pro	Lys				
	50					55					60								
Thr	Phe	Arg	Pro	Asp	Arg	Ala	Arg	His	Arg	Gly	Gly	Ile	Lys	Cys	Val				
65					70					75					80				
Ile	Leu																		

<210> 33044
 <211> 214
 <212> PRT
 <213> A.fumigatus

<400> 33044																			
Val	Arg	Leu	Val	Ser	Phe	Cys	Phe	Leu	Ser	Ser	Val	Ile	Leu	Phe	Leu				
1				5					10					15					
Gln	Phe	Cys	Tyr	Pro	Thr	Thr	Pro	Arg	Val	Trp	Leu	Gly	Phe	Arg	Ile				
			20					25					30						
Leu	Arg	Arg	Ala	Phe	Ile	Leu	Trp	Ile	Arg	His	Ile	Val	Glu	Val	Ile				
			35					40					45						
Pro	Ser	His	Thr	His	Phe	Ser	Pro	Ser	Arg	Cys	Thr	Val	Ser	Cys	Leu				
	50					55				60									
Ser	Asp	Arg	Glu	Leu	Ser	Phe	Pro	Arg	Leu	Asn	Lys	Lys	Lys	Gly	Arg				
65				70					75					80					
Met	Ser	Thr	Gln	Gln	Thr	Val	His	Ala	Gln	Ser	Leu	His	Ser	Pro	Glu				
				85					90					95					
Ser	Phe	Trp	Ser	Tyr	His	Ala	Thr	Lys	Leu	His	Trp	His	Lys	Lys	Pro				
			100					105					110						
Ser	Gln	Thr	Leu	Val	Arg	Arg	Pro	Lys	Thr	Leu	Pro	Ser	Gly	Val	Thr				
			115					120					125						
His	Glu	His	Trp	Ser	Trp	Phe	Pro	Asp	Gly	Glu	Ile	Ser	Thr	Thr	Tyr				
	130					135					140								
Asn	Cys	Val	Asp	Arg	His	Val	Ala	Ala	Gly	Arg	Gly	Glu	Asn	Val	Ala				
145					150					155					160				
Ile	Ile	Trp	Asp	Ser	Pro	Val	Thr	Gly	Val	Lys	Glu	Lys	Tyr	Thr	Tyr				
			165						170					175					
Ser	Gln	Leu	Leu	Asp	Glu	Val	Glu	Val	Leu	Ala	Gly	Val	Leu	Arg	Glu				
			180					185					190						
Glu	Gly	Val	Arg	Lys	Gly	Asp	Val	Val	Ile	Ile	Tyr	Ser	Met	Tyr	Leu				
	195						200					205							
Ser	Ser	Gly	Pro	Gly	Thr														
	210																		

<210> 33045
 <211> 98
 <212> PRT
 <213> A.fumigatus

<400> 33045																			
Phe	Ile	Cys	Gly	Val	Phe	Thr	Pro	Tyr	Met	Leu	Asn	Pro	Gly	Ala	Trp				
1				5					10					15					
Asp	Trp	Gly	Asn	Tyr	Thr	Gly	Phe	Phe	Trp	Gly	Gly	Ile	Cys	Phe	Leu				
			20					25					30						
Cys	Ile	Ile	Tyr	Thr	Tyr	Phe	Arg	Val	Pro	Glu	Pro	Arg	Gly	Arg	Ser				
			35				40					45							
Phe	Ala	Glu	Leu	Asp	Leu	Leu	Phe	Glu	Arg	Lys	Val	Ser	Ala	Arg	Lys				

13095

50 55 60
 Phe Ser Ser Thr His Val Asp Val Phe Asp Glu Thr Val Glu Ser Gln
 65 70 75 80
 Val Val Ser Asp Tyr His Ala Gln Gln Met Ala Ala Ala Gly Val Thr
 85 90 95
 Gln Lys

<210> 33046
 <211> 132
 <212> PRT
 <213> A.fumigatus

<400> 33046
 Leu Leu Met Pro Thr Leu Asp Ser Leu Gly Arg Asn Thr Pro Leu Leu
 1 5 10 15
 Arg Leu Leu Ala Ala Glu Val Leu Pro Arg Gln Asp Gln Leu His Arg
 20 25 30
 Leu Ala Leu Ala Asp Gly Val Gly Glu Thr Leu Arg Thr Ala Arg Ala
 35 40 45
 Gly Asp His Ser Gln Leu Asp Leu Gly Leu Pro Glu Gly Gly Ala Ser
 50 55 60
 Gly Ala Val Asp Asp Val Ala His Glu Gly Glu Leu Ala Ala Ala Ala
 65 70 75 80
 Glu Gly Val Ala Gly Asp Gly Gly Asp Asp Gly Leu Ala Asp Gly Val
 85 90 95
 Gly Glu Val Arg Pro Arg Gly Asp Glu Val Val Gly Val Ser Val Gly
 100 105 110
 Glu Gly Gln Trp Gly His Phe Leu Asp Val Gly Ala Gly Trp Thr Val
 115 120 125
 Ser Ala Gly Leu
 130

<210> 33047
 <211> 76
 <212> PRT
 <213> A.fumigatus

<400> 33047
 Leu Arg Ser Tyr Gln Tyr Gln Thr Ser Leu Asp Ala Leu Thr Pro Tyr
 1 5 10 15
 Thr Thr Tyr Arg Trp Ile Gly Ser Val Val Leu Leu Leu Ile Phe Phe
 20 25 30
 Leu Arg Ile Ile Leu Ala Gln Gly Trp Tyr Ile Gly Met Arg Leu Ser
 35 40 45
 Leu Ser Ser Val Gln Leu Pro Asn Cys Lys Phe Thr Asn Ile Tyr Pro
 50 55 60
 Cys Ser Gln Ser His Thr Pro Ser Ala Ser Thr Ser
 65 70 75

<210> 33048
 <211> 120
 <212> PRT
 <213> A.fumigatus

<400> 33048

13096

Ser Leu Leu Pro Asn Asn Pro Trp Asn Ser Arg Leu Ser Tyr Ser Thr
 1 5 10 15
 Pro Ser Arg Ser Glu Ser Ser Trp Leu Leu Phe Thr Thr Ser Leu Ala
 20 25 30
 Ala Arg Thr Leu Thr Arg Leu Tyr Pro Ala Ile Val Ser Ala Val Leu
 35 40 45
 Ser Ala Ser Ala Ser Ser Ser Ser Cys Pro Pro Ser Thr Ala Leu Ala
 50 55 60
 Ala Thr Pro His Cys Ser Ala Ser Leu Pro Leu Lys Phe Phe Pro Val
 65 70 75 80
 Arg Ile Ser Ser Ile Ala Leu Leu Leu Pro Thr Ala Trp Val Arg Arg
 85 90 95
 Cys Glu Pro Pro Ala Pro Gly Ile Thr Pro Ser Leu Ile Ser Gly Cys
 100 105 110
 Pro Lys Val Ala Leu Ala Val Gln
 115 120

<210> 33049

<211> 97

<212> PRT

<213> A.fumigatus

<400> 33049

His Leu Pro Met Phe Ala Val Ala Tyr Thr Leu Gly Ile Tyr Leu Leu
 1 5 10 15
 Asn Leu Phe Leu Leu Phe Leu Gln Pro Lys Phe Asp Pro Ser Leu Thr
 20 25 30
 Gln Asp Glu Gly Leu Glu Asp Gly Asp Ala Ser Ala Ser Leu Pro Thr
 35 40 45
 Lys Gln Asp Asp Glu Phe Arg Pro Phe Ile Arg Arg Leu Pro Glu Phe
 50 55 60
 Lys Phe Trp His Ser Ala Thr Arg Ala Ile Ala Ile Gly Phe Val Cys
 65 70 75 80
 Ser Trp Phe Pro Val Phe Asp Ile Pro Val Phe Trp Pro Val Leu Val
 85 90 95
 Val

<210> 33050

<211> 192

<212> PRT

<213> A.fumigatus

<400> 33050

Tyr Arg Pro Ala Gly Ala Asp Ile Lys Glu Met Ala Pro Leu Thr Phe
 1 5 10 15
 Ser Asn Ala Tyr Thr Asn Asn Phe Ile Ala Pro Trp Ser His Phe Ala
 20 25 30
 Asn Ser Val Arg Lys Pro Val Ile Ala Ala Val Ser Gly Tyr Ala Leu
 35 40 45
 Gly Gly Gly Cys Glu Leu Ala Leu Met Cys Asp Ile Ile Tyr Cys Thr
 50 55 60
 Ala Ser Ala Thr Phe Gly Gln Pro Glu Ile Lys Leu Gly Val Ile Pro
 65 70 75 80
 Gly Ala Gly Gly Ser Gln Arg Leu Thr His Ala Val Gly Lys Ser Lys
 85 90 95

13097

Ala Met Glu Leu Ile Leu Thr Gly Lys Asn Phe Ser Gly Lys Glu Ala
 100 105 110
 Glu Gln Trp Gly Val Ala Ala Lys Ala Val Glu Gly Gly His Glu Glu
 115 120 125
 Leu Leu Ala Glu Ala Leu Lys Thr Ala Glu Thr Ile Ala Gly Tyr Ser
 130 135 140
 Arg Val Ser Val Leu Ala Ala Lys Glu Val Val Asn Lys Ser Gln Glu
 145 150 155 160
 Leu Ser Leu Arg Glu Gly Val Glu Tyr Glu Arg Arg Leu Phe His Gly
 165 170 175
 Leu Phe Gly Ser Lys Asp Gln Lys Ile Gly Glu Phe Leu Ser Gly Asp
 180 185 190

<210> 33051

<211> 108

<212> PRT

<213> A.fumigatus

<400> 33051

Gly Ile Thr Val Thr Leu Met Leu Arg Ser Val Gly Ala Leu Ile Ser
 1 5 10 15
 Gly Phe Phe Ser Asp Arg Tyr Gly Arg Lys Trp Pro Phe Ile Ile Thr
 20 25 30
 Leu Ser Ala Phe Ile Val Leu Glu Leu Val Ser Gly Phe Cys Gln Asn
 35 40 45
 Leu Pro Gln Phe Leu Gly Val Arg Ala Leu Tyr Gly Ile Ala Met Gly
 50 55 60
 Gly Met Ile Ala Leu Glu Asp Arg Ile Tyr Ser Cys Pro Val Asp Lys
 65 70 75 80
 Cys Val Arg Ser Leu Trp Pro Gly Arg Cys His Arg Ser Arg Gly Pro
 85 90 95
 Ser Leu Arg Cys Ser Arg Ser Val Ile Gly Leu Phe
 100 105

<210> 33052

<211> 92

<212> PRT

<213> A.fumigatus

<400> 33052

Tyr Ser Leu Arg Tyr Ser Lys Asn Lys Ile Arg Asn Pro Ile Ser Val
 1 5 10 15
 Leu Arg Glu Leu Thr Thr His Gln Trp Leu Met Phe Leu Val Gly Phe
 20 25 30
 Leu Gly Trp Thr Trp Asp Ser Phe Asp Phe Phe Thr Val Ser Met Thr
 35 40 45
 Val Thr Glu Ile Ala Lys Asp Phe Asp Thr Ser Val Thr Ser Val Thr
 50 55 60
 Trp Val Ser Ser Ser Ser Leu Val Tyr Pro Glu Arg Gln His Ala Asp
 65 70 75 80
 Ile Cys Cys Ser Ser Ala Arg Ala Ser Pro Ser Pro
 85 90

<210> 33053

<211> 131

<212> PRT

<213> A.fumigatus

<400> 33053

```

Ser Pro Trp Lys Thr Val Ser Ile Pro Val Leu Leu Thr Ser Val Ser
1          5          10          15
Gly Leu Phe Gly Pro Ala Ala Ala Thr Ala Leu Glu Asp Leu Pro Tyr
          20          25          30
Asp Ala Arg Gly Val Leu Ser Gly Cys Phe Glu Met Gly Tyr Ala Val
          35          40          45
Gly Tyr Leu Leu Ala Ala Ala Phe Tyr Arg Ala Leu Val Pro Thr Thr
          50          55          60
Ser His Gly Trp Arg Ser Leu Phe Trp Ile Gly Ala Ala Pro Pro Val
65          70          75          80
Leu Ile Ile Phe Phe Arg Trp Met Leu Pro Glu Thr Asn His Phe Gln
          85          90          95
Val Met Val Ala Glu Arg Glu Glu Arg Ile Arg Leu Ala His Ala Gly
          100          105          110
Asp Asp His Val Arg Ala Asn Gly Leu Arg Ser Phe Leu Lys Asp Ser
          115          120          125
Gly Thr Arg
          130

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<210> 33054

<211> 76

<212> PRT

<213> A.fumigatus

<400> 33054

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Arg Leu Leu Arg Ala Gly Phe Leu Pro Gly Ala Val Leu Val Ile Ser
1          5          10          15
Lys Trp Tyr Leu Pro Asn Glu Thr Gln Thr Arg Ile Ala Ile Leu Tyr
          20          25          30
Thr Ser Ala Ala Ser Gly Gly Ala Phe Ser Gly Leu Leu Ala Phe Ala
          35          40          45
Ile Ala Lys Met Asp Gly Thr Ala Gly Tyr Glu Gly Trp Arg Trp Val
          50          55          60
Ser Ser Ser Trp Leu Ser Phe Val Pro Ser Ser Asn
65          70          75

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<210> 33055

<211> 294

<212> PRT

<213> A.fumigatus

<400> 33055

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His Ser Arg Gln Ile Phe Ile Ile Glu Gly Leu Val Thr Val Gly Met
1          5          10          15
Ser Val Ala Cys Tyr Leu Leu Leu Leu Asp Ser Pro Tyr Leu Ser Pro
          20          25          30
Gly Trp Leu Thr Pro Asp Glu Ile Arg Phe Leu Glu Val Arg Gln Leu
          35          40          45
Ala Ser Ser Ser His Ser Ala His Asp Gly Ala Phe Ser Lys Arg Val
          50          55          60
Ile Phe Ser Val Leu Thr Asp Trp Lys Ile Tyr Leu Leu Ile Leu Ala
65          70          75          80
Asn Trp Ser Asn Ala Val Pro Asn Tyr Ala Leu Lys Phe Ser Met Pro

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<210> 33056
<211> 110
<212> PRT
<213> A.fumigatus
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Asp	Ser	Val	Asp	Arg	Ser	Ser	Pro	Ser	Gln	Leu	Gly	Gly	Ser	Leu	Arg	
1				5					10					15		
Val	Ile	Arg	Glu	Ile	Ser	Arg	Arg	Glu	Gly	Gly	Ile	Thr	Ala	Phe	Tyr	
			20					25					30			
Arg	Gly	Leu	Thr	Pro	Asn	Ile	Ile	Gly	Asn	Ser	Thr	Ser	Trp	Ala	Leu	
			35				40					45				
Tyr	Phe	Leu	Cys	Tyr	Gly	Lys	Thr	Lys	Asp	Leu	Met	Arg	Arg	Leu	Arg	
	50					55					60					
Gly	Ser	Arg	Val	Leu	Glu	Leu	Thr	Ser	Ala	Asp	Tyr	Phe	Val	Ala	Ser	
65					70				75					80		
Gly	Leu	Ala	Gly	Met	Ile	Leu	Arg	Pro	Ser	Val	Phe	His	Trp	Thr	Ser	
				85					90					95		
Met	Leu	Thr	Lys	Ser	His	Leu	Leu	Ile	Ala	Leu	Tyr	Ser	Leu			
			100					105					110			

<400> 33057

Leu Leu Cys Cys Ile Arg Thr Gly Arg Tyr Asp Pro Ala Pro Ile Cys

13100

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1           5           10           15
Val Ser Leu Asp Phe Asn Ala His Glu Ile Thr Phe Ala Asn Cys Thr
      20           25           30
Ile Phe Ala Leu Gly Leu Ala Thr Ser Phe Leu Thr Asn Pro Ile Trp
      35           40           45
Val Ile Lys Thr Arg Met Leu Ser Thr Gly Ser Asn Ala Pro Gly Ala
      50           55           60
Tyr Ala Ser Phe Thr Thr Gly Val Thr Gln Ile Tyr Arg Ser Glu Gly
65           70           75           80
Ile Ser Gly Phe Tyr Arg Gly Leu Leu Pro Ala Leu Phe Gly Val Ser
      85           90           95
His Gly Ala Leu Gln Phe Met Ala Tyr Glu Lys Leu Lys Ala Tyr Arg
      100          105          110
Thr Arg Met Ser Ser Ala Ser Arg Thr Ser Gly Asp Ser Ile Gly Leu
      115          120          125
Gly Ala Thr Pro Ala Arg Gln Leu Gly Asn Ile Asp Phe Phe Leu Thr
      130          135          140
Ser Ser Leu Ser Lys Ile Phe Ala Gly Cys Val Thr Tyr Pro Tyr Gln
145          150          155          160
Val Leu Arg Ser Arg Leu Gln Thr Tyr Asp Ala His Leu Val Tyr Arg
      165          170          175
Gly Val Arg Asp Ala Met Ala Gln Ile Trp Ala Gln Glu Gly Phe Gly
      180          185          190
Gly Phe Tyr Lys Gly Leu Gly Pro Asn Leu Leu Arg Val Leu Pro Ser
      195          200          205
Thr Trp Val Thr Phe Leu Val Tyr Glu Asn Thr Lys Ser Cys Leu Thr
      210          215          220

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<210> 33058

<211> 121

<212> PRT

<213> A.fumigatus

<400> 33058

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Trp Thr Gly Lys Ser His Gln Asn Lys Phe His Ala Thr Thr Leu Arg
1           5           10           15
Thr Leu Thr Leu Lys Phe Ser Gln Met Ser Glu Thr Gln Leu Met Asn
      20           25           30
Pro Gln Asp Arg Gln Leu Trp Glu Tyr Phe Ala Asn Leu Tyr Lys Asn
      35           40           45
Ser Asn Lys Gly Ile Lys Gly Arg Gly Lys Asp Arg Arg Ile Ser Pro
      50           55           60
Thr Ser Lys Ser Ser Asp Ser Ser Ala Ser Cys Thr Arg Met Gln Ser
65           70           75           80
Leu Glu Ser Asp Glu Asp Leu Lys Ala Ser Cys Gly Ser Arg Glu Ala
      85           90           95
Ser Ser Ala Tyr Thr Ser Ser Ser Ser Gly Glu Glu Glu Asp Pro Glu
      100          105          110
Ile Tyr Tyr Thr Asp Arg Lys Gly His
      115          120

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<210> 33059

<211> 90

<212> PRT

<213> A.fumigatus

13101

<400> 33059

Thr	His	Gln	Arg	Arg	His	Thr	Gly	Glu	Lys	Pro	Phe	Ser	Cys	Asp	Ile
1				5					10					15	
Cys	Gln	Lys	Arg	Phe	Ala	Gln	Arg	Gly	Asn	Val	Arg	Ala	His	Lys	Ile
			20					25					30		
Thr	His	Gln	His	Ala	Lys	Pro	Phe	Thr	Cys	Leu	Leu	Asp	Asp	Cys	Gly
			35					40					45		
Lys	Gln	Phe	Thr	Gln	Leu	Gly	Asn	Leu	Lys	Val	Tyr	Cys	Leu	Met	Lys
			50				55					60			
Gln	Val	Ala	Leu	Ile	Pro	Glu	Thr	Leu	Trp	Ala	Asn	Gly	Leu	Glu	Ser
65					70					75					80
Arg	Thr	Arg	Thr	Ser	Ser	Thr	Pro	Leu	Arg						
				85					90						

<210> 33060

<211> 65

<212> PRT

<213> A.fumigatus

<400> 33060

Ser	Leu	Thr	Cys	Ser	Gly	Asn	Pro	Gln	Val	Val	Ile	Asp	Gly	Lys	Gly
1				5					10					15	
His	Leu	Leu	Gly	Arg	Leu	Ala	Ser	Thr	Val	Ala	Lys	Gln	Leu	Leu	Asn
			20					25					30		
Gly	Gln	Lys	Ile	Val	Val	Val	Arg	Cys	Glu	Ala	Leu	Asn	Ile	Ser	Gly
			35					40					45		
Glu	Phe	Phe	Arg	Ala	Lys	Arg	Thr	Ser	Ser	Asp	Ser	Phe	Phe	His	Pro
	50						55				60				
Leu															
65															

<210> 33061

<211> 161

<212> PRT

<213> A.fumigatus

<400> 33061

Arg	Arg	Lys	Arg	Arg	Val	Glu	Gln	Arg	His	Thr	Glu	Thr	Trp	Arg	His
1				5					10					15	
Leu	Glu	Met	Leu	Arg	Leu	Phe	Asp	Thr	Gly	Ser	Glu	Gln	Arg	Ala	Asp
			20					25					30		
Ile	Ala	Thr	Ser	Asp	Asp	Ile	Val	Lys	Tyr	His	Ala	Tyr	Leu	Arg	Lys
			35					40					45		
Met	Thr	Arg	Tyr	Asn	Pro	Thr	Arg	Gly	Gly	Pro	Phe	His	Phe	Arg	Ala
	50					55				60					
Pro	Ser	Arg	Ile	Phe	Tyr	Lys	Ala	Val	Arg	Gly	Met	Ile	Pro	His	Lys
65					70					75					80
Thr	Pro	Arg	Gly	Ala	Ala	Ala	Leu	Glu	Arg	Leu	Lys	Val	Phe	Glu	Gly
			85						90					95	
Val	Pro	Pro	Pro	Tyr	Asp	Lys	Lys	Lys	Arg	Val	Val	Val	Pro	Gln	Ala
			100					105					110		
Leu	Arg	Val	Leu	Arg	Leu	Arg	Pro	Gly	Arg	Lys	Tyr	Cys	Thr	Val	Gly
			115				120					125			
Arg	Leu	Ser	His	Glu	Val	Gly	Trp	Lys	Tyr	Gln	Asp	Val	Val	Ala	Arg
	130					135					140				
Cys	Val	Ile	Ile	Ala	Leu	Asp	Tyr	Trp	Ser	Phe	Trp	Cys	Tyr	Gly	His

13102

145
Gly

150

155

160

<210> 33062
 <211> 62
 <212> PRT
 <213> A.fumigatus

<400> 33062
 Ile Tyr Ala Pro Gly Glu Cys Leu Ala Ser Leu Thr Leu Lys Ile Tyr
 1 5 10 15
 Glu Ser Gly Leu Phe Trp Leu Ala Thr Ala Thr Glu Ala Phe Thr Gln
 20 25 30
 Val Ile Trp Ser Gly Phe Arg Cys Pro Val Leu Met Gly Pro Ile Cys
 35 40 45
 Ile Pro Pro Lys Ser Arg Asp Leu Ala Pro Asn His Ala Asn
 50 55 60

<210> 33063
 <211> 89
 <212> PRT
 <213> A.fumigatus

<400> 33063
 Ser Arg Glu Pro Pro Leu Leu Pro Leu Val Asn Ser Ser Pro Val Gly
 1 5 10 15
 Arg Phe Leu Gly Pro Glu Asp Lys Leu Phe Leu Asp Arg Pro Val Ser
 20 25 30
 Asp Cys Ser Ala Lys Lys Glu His Leu Val Val Leu Ser Leu Ile Val
 35 40 45
 Val Tyr Leu Leu Arg Thr Leu Trp Ile Val Ala Gly Asp Val Ser Ile
 50 55 60
 Phe Thr Arg Gln Ala Asp Ser Gly Val Lys Phe Ile Leu Ile Lys Phe
 65 70 75 80
 Ser Gln Gly Met Thr Leu Thr Ala Leu
 85

<210> 33064
 <211> 79
 <212> PRT
 <213> A.fumigatus

<400> 33064
 Gln Gln Ser Arg Leu Ile Tyr Ser Leu Arg Arg Leu Met Arg Leu Gln
 1 5 10 15
 Lys Thr Arg Phe Val Cys Val Ser Asp Thr His Gly Tyr Ala Pro Ser
 20 25 30
 Glu Ala Gly Phe Lys Leu Pro Ala Gly Asp Val Leu Ile His Ala Gly
 35 40 45
 Asp Leu Thr Asn Gln Gly Ser Leu Ser Glu Leu Arg Lys Thr Ile Glu
 50 55 60
 Trp Ile Ser Lys Ala Asp Tyr Glu Val Lys Ile Ile Val Cys Gly
 65 70 75

<210> 33065

<211> 280
 <212> PRT
 <213> A.fumigatus

<400> 33065

Asp	Leu	Cys	Ser	Gly	His	Glu	Phe	Val	His	Asp	Gln	Tyr	Met	Arg	Asp
1				5					10					15	
Thr	Ile	Ala	Asn	Asp	Glu	Glu	Leu	Gln	Ser	Arg	Lys	Arg	Ala	Arg	Tyr
			20					25					30		
Glu	Asp	Asp	Ser	Thr	Gln	Ser	Thr	Gln	Gln	Phe	Ile	Ser	Val	Asp	Ala
		35					40					45			
Ser	Ile	Asp	Gly	Ser	Pro	Thr	Val	Met	Pro	Asn	Ala	Gly	Glu	Pro	Glu
	50					55					60				
Val	Gln	Ala	Arg	Arg	Arg	Pro	Thr	Thr	Thr	Leu	Ser	Ser	Arg	Glu	Thr
65					70					75					80
Val	Pro	Asp	Ala	Thr	Ile	Asp	Leu	Lys	Val	Lys	Lys	Ala	Ser	Pro	Gln
				85					90					95	
Pro	Leu	Pro	Ile	Pro	Thr	Ser	Thr	Pro	Glu	Ala	Ala	Lys	Ala	Lys	Arg
			100					105					110		
Asn	Glu	Ile	Arg	Arg	Ala	Trp	His	Phe	Leu	Arg	Ala	Glu	Gly	Ser	His
		115					120					125			
His	Pro	Glu	Ile	Glu	Leu	Gly	Ala	Leu	Pro	Ser	Ser	Trp	Pro	Thr	Pro
	130					135					140				
Glu	Glu	Asp	Gly	Phe	His	Leu	Pro	Asn	Arg	Gly	Ser	Ser	Glu	Thr	Gly
145					150					155					160
Asp	Glu	Thr	Arg	Thr	Arg	Thr	Gln	Asp	Asn	Met	Gln	Phe	Ala	His	Asp
				165					170					175	
His	Asp	Asp	Asp	Asn	Glu	Asp	Asp	Met	Pro	Asn	Ser	Gln	Val	Thr	Ala
			180					185					190		
Thr	Leu	Ser	Ile	Ser	Ser	Ser	Ala	Phe	Ala	Ser	Gln	Glu	Gln	Thr	Leu
		195					200					205			
Gly	Pro	Leu	Gln	Gln	Asp	Gly	Pro	Phe	Asp	Val	Gly	Val	Asp	Ile	Pro
	210					215					220				
Leu	Ser	Ser	Glu	Gly	Ala	Pro	Gly	Arg	Pro	Arg	Thr	Leu	Gly	Arg	Ser
225					230					235					240
Ser	Ser	Ser	Arg	Ala	Arg	Arg	Ala	Ala	Tyr	Leu	Ala	Ala	Arg	Ala	Asp
				245					250					255	
Ser	Tyr	Asp	Ala	Trp	Ala	Cys	Met	Gly	Leu	Val	Ser	Ala	Gly	Asp	Asn
			260					265					270		
His	Ser	Met	Glu	Glu	Thr	Glu	Leu								
		275					280								

<210> 33066
 <211> 147
 <212> PRT
 <213> A.fumigatus

<400> 33066

Gln	Arg	Ala	Arg	Trp	Trp	Gly	Trp	Asn	Arg	Trp	Gly	Arg	Pro	Val	Leu
1				5				10						15	
Asp	Ser	Leu	Val	Lys	Arg	Ser	Thr	Arg	His	Arg	Cys	Gly	Gly	Trp	Gly
			20					25				30			
Gly	Tyr	His	Leu	Arg	Gly	Asp	Asp	His	Ala	Ala	Phe	Gln	Asp	Leu	Gly
		35					40					45			
Gly	Leu	Gly	Ala	Lys	Gly	Ala	Arg	Val	Pro	Asp	Asp	Gln	Val	Gly	Glu
	50					55						60			

13104

Leu Ala Asp Leu Asp Ala Ser Asp Gln Val Arg His Ala Leu Arg Asp
65 70 75 80
Gly Arg Val Asp Gly Ile Leu Asp Asp Val Ala Phe Asp Ala Glu Val
85 90 95
Val Arg Ala Gly Ala Leu Val Leu Leu Glu Gly Pro Thr Leu Cys Ile
100 105 110
Val Leu Val Arg Gly Val Pro Gly Ala Gln Asp His Leu Ala Ala Ala
115 120 125
Ala His Gly Leu Arg Ile Arg Leu Asn Arg Arg Arg Trp Lys Leu Met
130 135 140
Ser Arg Glu
145

<210> 33067

<211> 128

<212> PRT

<213> A.fumigatus

<400> 33067

Phe Pro Thr His Glu Leu Pro Ser Pro Ser Val Lys Thr Asp Ser Gln
1 5 10 15
Ala Met Gly Arg Cys Gly Glu Val Ile Leu Arg Thr Trp Asn Thr Ala
20 25 30
His Lys Asn Asn Ala Gln Arg Gly Pro Leu Lys Glu Asp Glu Gly Thr
35 40 45
Gly Ala Asp Asn Phe Arg Val Lys Arg Tyr Ile Ile Lys Tyr Thr Ile
50 55 60
Asn Pro Ala Ile Ala Gln Gly Met Ser His Leu Ile Gly Ser Val Glu
65 70 75 80
Val Ser Lys Leu Ala Asp Leu Val Ile Trp His Pro Ser Thr Phe Gly
85 90 95
Thr Lys Pro Ala Gln Val Leu Lys Ser Gly Met Ile Val Ala Ser Gln
100 105 110
Met Val Pro Ser Pro Pro Pro Thr Pro Val Ser Cys Arg Pro Leu Tyr
115 120 125

<210> 33068

<211> 89

<212> PRT

<213> A.fumigatus

<400> 33068

Gln Val Gln Ala Phe Val Pro Ser Thr Ser Ile Met Trp Val Ser Gln
1 5 10 15
Ala Ser Ile Asp Asp Gly Ile Val Gln Ser Tyr Gly Leu Lys Lys Arg
20 25 30
Ile Glu Ala Val Arg Asn Cys Arg Asn Ile Gly Lys Lys Asp Met Lys
35 40 45
Phe Asn Asp Val Met Pro Lys Met Arg Val Asp Pro Glu Ser Tyr Val
50 55 60
Val Glu Ala Asp Gly Val Leu Cys Asp Ala Glu Pro Ala Glu Ala Leu
65 70 75 80
Pro Leu Thr Gln Asp Tyr Phe Val Tyr
85

<210> 33069

<211> 182
 <212> PRT
 <213> A.fumigatus

<400> 33069

Gly	Asn	His	Phe	Gly	Ile	Ser	Ser	Leu	Val	Leu	Arg	Lys	Phe	Lys	Met
1				5					10					15	
Arg	Leu	Thr	Ser	Ile	Val	Leu	Phe	Ser	Leu	Val	Ser	Leu	Gly	Phe	Ala
			20					25					30		
Arg	Asp	Pro	Ser	Asp	Ile	Thr	His	Ser	Pro	Asn	Arg	Ser	Lys	Ala	Lys
		35					40					45			
Gly	Ala	Gln	Leu	Glu	Ser	Tyr	Cys	Pro	Gly	Gln	Asp	Ala	Asp	Glu	Asp
	50					55					60				
Leu	Gln	Arg	Glu	Ile	Phe	Asn	Gln	Phe	Ile	Gln	Thr	Leu	Tyr	Glu	Asn
65				70					75						80
Lys	Asn	Val	Pro	Glu	Ala	Phe	Glu	Thr	Tyr	Val	Asp	Pro	Asp	Leu	Thr
				85					90					95	
Glu	His	Gly	Pro	Tyr	Glu	Gln	Ser	Arg	Asp	Glu	Val	Val	Glu	Ser	Leu
			100					105					110		
Ser	Gln	Ile	Ile	Pro	Ser	Ser	Thr	Phe	Thr	Val	Val	His	Ser	Ser	Tyr
		115					120					125			
Gly	Gly	Asp	Ile	Gly	Phe	Val	His	Val	Arg	Ile	Gly	Asp	Glu	Gly	Ala
	130					135					140				
Pro	Pro	Ala	Ala	Ala	Leu	Ala	Asp	Ile	Tyr	Arg	Met	Asp	Gly	Thr	Cys
145					150					155					160
Ile	Val	Glu	His	Trp	Asp	Val	Leu	Gln	Asn	Leu	Pro	Glu	Asn	Ser	Thr
				165					170					175	
Asn	Pro	Asn	Ala	Leu	Phe										
				180											

<210> 33070
 <211> 384
 <212> PRT
 <213> A.fumigatus

<400> 33070

Tyr	Arg	Gly	Thr	Glu	Thr	Arg	Arg	Thr	Leu	Lys	Arg	Arg	Asn	Gln	Ala
1				5					10					15	
Gly	Arg	Leu	Ala	Arg	Ser	Leu	Leu	Asn	Met	Met	Ser	Arg	Ser	Gln	Ser
			20					25					30		
Ser	Leu	Gly	Tyr	Met	Asp	Thr	Gly	Arg	Asp	Glu	Pro	Ser	Thr	Ser	Gly
		35					40					45			
Ala	Ser	Pro	Gly	Tyr	Gln	Gln	Pro	Pro	Ser	Thr	Ala	Gly	Pro	Ile	Asn
	50					55					60				
Leu	Ser	Gly	Leu	Val	Cys	Asn	Val	Arg	Arg	Thr	Thr	Gly	Arg	Glu	Pro
65				70						75					80
His	Pro	Leu	Val	Gly	Ala	Thr	Thr	Thr	Ile	Leu	Gly	Asp	Lys	Leu	Tyr
			85						90					95	
Val	Phe	Gly	Gly	Arg	Val	Leu	Ser	Lys	Thr	Arg	Pro	Gln	Leu	Thr	Ser
			100					105					110		
Asp	Leu	Tyr	Glu	Leu	Asp	Leu	Ile	Arg	Arg	His	Trp	Thr	Lys	Ile	Glu
		115					120					125			
Ala	Thr	Gly	Asp	Ile	Pro	Arg	Pro	Arg	Tyr	Phe	His	Ser	Val	Cys	Ala
	130					135					140				
Leu	Gly	Asp	Asn	Lys	Leu	Val	Cys	Tyr	Gly	Gly	Met	Ser	Pro	Ala	Pro
145					150					155					160

13106

Asn	Ala	Ser	Lys	Glu	Ser	Ala	Ser	Asn	Gly	Ala	Ser	Gly	Gln	Glu	Gly
				165					170					175	
Gln	Pro	Glu	Val	Val	Val	Met	Ser	Asp	Ile	His	Ile	Phe	Asp	Val	Pro
			180					185					190		
Ser	Arg	Thr	Trp	Thr	Arg	Val	Pro	Ala	Thr	Asp	Ser	Pro	Gln	Gly	Arg
		195					200					205			
Tyr	Ala	His	Cys	Ala	Thr	Ile	Leu	Pro	Ser	Ser	Ala	Phe	Phe	Thr	Ser
	210					215					220				
Ala	Ser	Ala	Pro	Leu	Ser	Ala	Ile	His	His	Asn	Pro	Ala	Ser	Ser	Asn
225					230					235					240
Pro	His	Gln	Gly	Thr	Ile	Gly	Val	Asp	Ile	His	Gly	Phe	Gly	Gly	Ala
			245					250						255	
Glu	Met	Val	Leu	Val	Gly	Gly	Gln	Asp	Thr	Ser	Asn	His	Tyr	Ile	Glu
		260						265					270		
Gln	Ile	Ser	Val	Phe	Asn	Leu	Arg	Thr	Leu	Lys	Trp	Thr	Asn	Thr	Ser
		275					280					285			
Ser	Pro	Gly	Arg	Asn	Cys	Gly	Ala	Tyr	Arg	Ser	Val	Val	Ala	Pro	Leu
	290					295					300				
Asn	Glu	Met	Lys	Val	Ala	Asp	Ile	Gly	Ser	Ala	Ala	Ala	Asp	Arg	Glu
305					310					315					320
Thr	His	Glu	Pro	Leu	Glu	Glu	Ser	Asp	Val	Glu	Ser	Cys	Ser	Met	Pro
			325					330						335	
Ile	Phe	Ser	Gln	Leu	Pro	Leu	Pro	Gly	Cys	Gln	Ala	Trp	Ser	Ser	Thr
			340					345					350		
Cys	Val	Cys	Pro	Asp	Gly	Pro	Leu	Glu	Leu	Lys	Lys	Pro	Met	Ala	Gln
		355					360					365			
Cys	Gln	Arg	Ser	Pro	Pro	Gly	Leu	Glu	Asn	Ser	Pro	Asn	Arg	Gln	Gly
	370					375					380				

<210> 33071

<211> 82

<212> PRT

<213> A.fumigatus

<400> 33071

Ser	Thr	Lys	Cys	Leu	Tyr	Ser	Ile	Leu	Arg	Gln	Asn	Thr	Tyr	Asn	Thr
1			5					10						15	
Pro	Pro	Gly	Gln	Arg	Ala	Arg	Leu	Gly	Arg	Ile	Ile	Thr	Thr	Ile	Met
		20						25					30		
Asp	Val	Val	Ala	Ala	Val	Ser	Gly	Tyr	Ile	Ser	Lys	Met	Val	Thr	Thr
		35					40					45			
Gly	Asp	Thr	Ala	Ser	Ala	Thr	Gly	Ser	Ser	Ser	Ser	Ala	Lys	Met	Lys
	50					55					60				
Ile	Leu	Leu	Leu	Asp	Ser	Glu	Thr	Val	Gly	Ser	Ala	Phe	Tyr	Cys	Arg
65					70					75				80	
Val	Gln														

<210> 33072

<211> 97

<212> PRT

<213> A.fumigatus

<400> 33072

Lys	Leu	Asn	Leu	Glu	Ala	Asp	Ser	Tyr	Asn	Ala	Gln	Met	Pro	Ile	Val
1			5						10					15	

Ser Thr Ala Ile Thr Gln Ser Ala Leu Leu Ser His Glu Val Tyr Leu
 20 25 30
 Ile Asp Arg Leu Glu Asn Ala Ala Arg Glu Lys Met Arg His Leu Arg
 35 40 45
 Cys Leu Cys Phe Val Arg Pro Ser Pro Thr Ser Ile Gln Phe Leu Ile
 50 55 60
 Asp Glu Leu Arg Gly Ala Gln Val Arg Gly Val Ser Tyr Leu Pro Glu
 65 70 75 80
 Gln His Tyr Ser Gln Val Phe Leu Gly Ala Thr Gly Gly Ser Arg Trp
 85 90 95
 Ala

<210> 33073

<211> 104

<212> PRT

<213> A.fumigatus

<400> 33073

Gly Arg Pro Arg Ile Phe Ala Cys Gly Asp Ser Ile Asn Leu Arg His
 1 5 10 15
 Pro Tyr Tyr Pro Pro Pro Thr Ala Met Ala Trp Thr His Ser Pro Asp
 20 25 30
 Ser His Ile Pro Glu Gln Gln Tyr Tyr Ser Ser Met Asp Ile His Pro
 35 40 45
 Ser Pro Pro Lys Pro Ile Asn Ala Leu Ser Pro Ser Ala Ser Ala Ala
 50 55 60
 Arg Glu Pro Lys Leu Gln Leu Pro Ser Thr Thr Asp Pro Pro Gly Pro
 65 70 75 80
 Gln Asn Pro Pro Lys Gln Leu Val Trp Leu Val Arg Leu Pro Leu Leu
 85 90 95
 Leu Phe Glu Leu His Cys Ala His
 100

<210> 33074

<211> 329

<212> PRT

<213> A.fumigatus

<400> 33074

Ser Ile Ala Trp Lys Met Pro Pro Ala Lys Arg Cys Asp Ile Cys Ala
 1 5 10 15
 Val Cys Ala Ser Cys Ala Arg Pro Arg Leu Pro Ser Asn Phe Ser Ser
 20 25 30
 Thr Ser Phe Gly Glu Pro Lys Tyr Gly Glu Tyr His Ile Tyr Leu Ser
 35 40 45
 Asn Ile Ile Arg Lys Ser Ser Leu Glu Arg Leu Ala Glu Ala Asp Gly
 50 55 60
 His Glu Val Val Arg Val Val Gln Glu His Phe Ala Asp Phe Leu Val
 65 70 75 80
 Val Asn Pro Asp Leu Cys Ser Val Asn Leu Gly Phe Pro Asn Gln Arg
 85 90 95
 Leu Trp Ser His Ser Pro Asp Leu Trp Asn Ala Asp Ala Leu Gln Arg
 100 105 110
 Ala Thr Glu Gly Val Ile Ala Leu Leu Leu Ala Leu Lys Lys Asn Pro
 115 120 125

Leu Ile Arg Tyr Glu Lys Asn Ser Leu Leu Ala Lys Lys Leu Ala Thr
 130 135 140
 Glu Val Arg Tyr Gln Val Thr Gln Glu Glu Gln Leu Phe Asn Phe Arg
 145 150 155 160
 Lys Thr Asp Thr Pro Pro Ile Leu Leu Ile Leu Asp Arg Arg Asp Asp
 165 170 175
 Pro Ile Thr Pro Leu Leu Thr Gln Trp Thr Tyr Gln Ala Met Val His
 180 185 190
 Glu Leu Leu Gly Ile Thr Asn Gly Arg Val Asp Leu Arg Gly Val Pro
 195 200 205
 Asp Ile Arg Pro Glu Leu Arg Glu Ile Val Leu Ser Gln Asp Gln Asp
 210 215 220
 Pro Phe Phe Lys Lys Asn Met Tyr Gln Asn Phe Gly Asp Leu Gly Gln
 225 230 235 240
 Asn Ile Lys Glu Tyr Val Glu Gln Tyr Gln Thr Lys Thr Gln Asn Thr
 245 250 255
 Met Asn Ile Glu Ser Ile Ala Asp Met Lys Arg Phe Val Glu Asp Tyr
 260 265 270
 Pro Glu Phe Arg Lys Leu Ser Gly Asn Val Ser Lys His Val Thr Leu
 275 280 285
 Val Gly Glu Leu Ser Arg Arg Val Gly Glu Asp Asn Leu Leu Asp Val
 290 295 300
 Ser Glu Leu Glu Gln Ser Leu Ala Cys Asn Asp Asn His Ala Asn Asp
 305 310 315 320
 Leu Lys Val Cys Arg Asp Leu Asn Leu
 325

<210> 33075

<211> 212

<212> PRT

<213> A.fumigatus

<400> 33075

Thr Leu Gln Arg Ile Ile Gln Leu Pro Thr Val Pro Ala Asp Asn Lys
 1 5 10 15
 Ile Arg Leu Val Ala Leu Tyr Ala Leu Arg Tyr Glu Lys Gln Pro Ser
 20 25 30
 Asn Ala Leu Pro Val Leu Leu Asp Leu Leu Val Thr Ala Gly Asp Val
 35 40 45
 Pro Ser Tyr Lys Val Asn Ile Ile Pro Lys Leu Leu Ala Tyr His His
 50 55 60
 Ser Leu Gln Ala Pro Pro Val Ala Gly Gly Phe Ser Asp Leu Phe Glu
 65 70 75 80
 Ser Ala Ser Leu Phe Ser Gly Ala Arg Asp Arg Phe Lys Gly Leu Lys
 85 90 95
 Gly Val Glu Asn Val Tyr Thr Gln His Ser Pro Arg Leu Glu Val Thr
 100 105 110
 Leu Gln Asn Leu Ile Lys Gly Arg Leu Lys Glu Leu Gln Tyr Pro Phe
 115 120 125
 Leu Glu Gly Ser Ser His Thr Arg Glu Lys Pro Gln Asp Ile Ile Ile
 130 135 140
 Phe Met Val Gly Gly Ala Thr Tyr Glu Glu Ala Lys Met Val Ala Gln
 145 150 155 160
 Val Asn Ala Ser Ser Pro Gly Val Arg Val Val Leu Gly Gly Thr Thr
 165 170 175
 Ile His Asn Ser Thr Ser Phe Leu Glu Glu Val Asp Asp Ala Val Ser

13109

180 185 190
 Gly Trp Pro Glu Pro Gly Pro Ser Thr Ala Ala Gly Arg Leu Arg Arg
 195 200 205
 Glu Ile Gly Arg
 210

<210> 33076

<211> 322

<212> PRT

<213> A.fumigatus

<400> 33076

Ile Phe Gly Ser Thr Gly His Met Gly Arg Ser Leu Val Lys Thr Ala
 1 5 10 15
 Leu Cys Arg Asn Asp Leu Val Ala Ala Val Gly Arg Thr Phe Glu Asn
 20 25 30
 Ser Pro Glu Ser Met Lys Lys Leu Glu Glu Glu His Glu Asn Cys Leu
 35 40 45
 Gly Leu Leu Cys Asp Val Arg Ala Arg Glu Thr Val Lys Lys Val Ile
 50 55 60
 Asp Arg Thr Ile Glu Arg Phe Gly Arg Ile Asp Ile Val Ala Asn Cys
 65 70 75 80
 Ala Gly Tyr Gly Val Ile Gly Ala Cys Glu Asp Gln Asp Glu Tyr Glu
 85 90 95
 Ile Arg Asp Gln Phe Glu Thr Asn Phe Thr Gly Thr Leu Asn Met Ile
 100 105 110
 Gln Leu Ser Leu Pro His Phe Arg Glu Arg Arg Ser Gly Arg Tyr Leu
 115 120 125
 Ile Phe Ser Ser Thr Ser Gly Ala Leu Gly Val Pro Gly Leu Gly Pro
 130 135 140
 Tyr Cys Ala Ser Lys Tyr Ala Val Glu Gly Leu Met Glu Ser Met Leu
 145 150 155 160
 Tyr Glu Val Asp Ser Phe Asn Ile Lys Gly Thr Leu Val Glu Pro Gly
 165 170 175
 His Met Arg Arg Asp Asp Val Gly Asp Leu Val Ser Asn Thr Ala Thr
 180 185 190
 Met Pro Ser Asn Glu His Asn Leu Ala Ser Pro Leu Pro Leu Tyr Gly
 195 200 205
 His Phe Phe Val Lys Gln Pro Ser Glu Pro Tyr Asn Thr Pro Thr Ala
 210 215 220
 Pro Ala Ala His Ala Arg Arg Met Leu Met Trp Leu Gly Asp Lys Gln
 225 230 235 240
 Pro Ala Ser Ala Val Lys Ala Ala His Leu Val Trp Gln Leu Gly His
 245 250 255
 Cys Ser Tyr Pro Pro Leu Arg Leu Val Leu Gly Thr Tyr Ala Val Glu
 260 265 270
 Ser Ile Arg Asp Arg Leu Lys Cys Ile Ile Glu Glu Ile Glu Asp Trp
 275 280 285
 Lys Tyr Leu Ser Phe Pro Val Gly Asp Gln Pro Gly Ser Ser Thr Gly
 290 295 300
 Lys Asp Lys Pro Ser Thr Glu Gly Gly Asp Lys Gln Asp Arg Glu Thr
 305 310 315 320
 Ala Thr

<210> 33077

<211> 61
 <212> PRT
 <213> A.fumigatus

<400> 33077

Trp	Asn	Leu	His	Thr	Gln	Lys	Ser	Gly	Val	Asp	Leu	Asn	Asp	His	Pro
1				5					10					15	
Val	Tyr	Arg	His	Arg	Met	Ala	Ser	Leu	Phe	Pro	Gln	Val	Asn	Lys	Ile
			20					25					30		
Asp	Ile	Tyr	Leu	Phe	Met	Arg	Ser	Leu	Ile	Leu	Phe	Met	Asn	Cys	Glu
		35					40					45			
Ile	Asn	Gly	Ile	Thr	Arg	Gly	Tyr	Asn	Lys	Tyr	Leu	Leu			
	50					55					60				

<210> 33078
 <211> 112
 <212> PRT
 <213> A.fumigatus

<220>

<221> UNSURE

<222> (11), (13), (49), (58), (67), (68), (71)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33078

Ile	Lys	Arg	Ala	Ser	Leu	Arg	Trp	Thr	Ser	Xaa	Arg	Xaa	Gly	Ser	Trp
1				5					10					15	
Gly	Leu	Cys	Gly	Leu	Val	Leu	Val	Ser	Arg	Pro	Leu	Phe	Pro	Asp	Thr
			20					25					30		
Gly	Leu	Lys	Ala	Cys	Val	Leu	Thr	Cys	Gly	Leu	Leu	Arg	Val	Ile	Asp
		35					40					45			
Xaa	Leu	Leu	Ile	Gly	Met	Gly	Gly	Leu	Xaa	Phe	Pro	Leu	Ser	Pro	Glu
	50					55					60				
Thr	Arg	Xaa	Xaa	Ile	Lys	Xaa	Leu	Gly	Asn	Pro	Val	Glu	Val	Leu	Asp
65					70				75					80	
Thr	Arg	Asn	Ala	Ala	Ala	Gln	Phe	Asn	Leu	Leu	Ala	Thr	Glu	Arg	Gly
			85					90					95		
Val	Ser	Glu	Ile	Ala	Ala	Ala	Met	Ile	Pro	Ile	Gly	Trp	Asn	Gly	Lys
			100					105					110		

<210> 33079
 <211> 244
 <212> PRT
 <213> A.fumigatus

<400> 33079

Asn	Ile	Leu	Pro	Ser	Met	Ala	Arg	Asp	Glu	Pro	Leu	Leu	Ala	Pro	Arg
1				5					10					15	
Pro	Ser	Ser	Glu	Asn	Asn	Ser	Ile	Arg	Asn	Ala	Glu	Glu	Glu	Asp	Ala
			20					25					30		
Leu	Leu	Thr	Gly	Glu	Arg	Thr	Gly	Arg	Gly	Gln	Glu	Arg	Arg	Gly	Trp
		35					40					45			
Thr	Phe	Trp	Arg	Glu	Val	Gly	Leu	Phe	Ser	Trp	Ala	Leu	Leu	Ala	Thr
	50					55					60				
Ile	Ala	Val	Ile	Val	Leu	Ala	Val	Val	Tyr	Gln	His	Glu	Thr	Ser	Asn
65					70					75				80	

13111

Pro Asn Gly Gly Ser Arg Pro Pro Trp Gly Pro Gly Gly Lys Pro Thr
 85 90 95
 Gly Lys Arg Asn Leu Ile Phe Met Val Ser Asp Gly Met Gly Pro Thr
 100 105 110
 Ser Leu Thr Met Thr Arg Ser Tyr Arg Gln Phe Val Glu Gly Leu Pro
 115 120 125
 Ile Asp Asp Ile Leu Val Leu Asp Gly His Ile Ile Gly Thr Ser Arg
 130 135 140
 Thr Arg Ser Ser Ser Ser Leu Val Thr Asp Ser Ala Ala Gly Ala Thr
 145 150 155 160
 Ala Phe Ser Cys Gly Phe Lys Ser Tyr Asn Gly Ala Ile Ser Val Leu
 165 170 175
 Pro Asp His Ser Pro Cys Gly Thr Val Leu Glu Ala Ala Ser Leu Ala
 180 185 190
 Gly Tyr Lys Thr Gly Leu Val Val Thr Thr Arg Ile Thr Asp Ala Thr
 195 200 205
 Pro Ala Cys Phe Ala Ser His Val Asn Leu Arg Gln Tyr Glu Asp Arg
 210 215 220
 Ile Ala Gln Gln Glu Ile Gly Glu His Pro Leu Gly Arg Val Val Asp
 225 230 235 240
 Leu Ile Phe Gly

<210> 33080

<211> 110

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (2), (38), (40)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33080

Glu Xaa Ser Leu Ser His Glu Val Ile His Lys Ser Thr Arg Thr Pro
 1 5 10 15
 Leu Asn Gln Tyr Arg Gly Lys Val Ala Asp Ser Pro Gly Arg Gly His
 20 25 30
 Thr Ser Pro Arg Ser Xaa His Xaa Cys Ser Ser Thr Ser Asn Trp Pro
 35 40 45
 Phe Leu Phe Asn Met Ser Asp Phe Met Pro Ala Leu Thr Phe Gln Gly
 50 55 60
 Leu Gln Ala Asn Ala Phe Pro Ala Asn Glu Gln His Pro Ile Ser Thr
 65 70 75 80
 Gly His Leu Asp Pro Thr Ile Gln Val Glu Ser Gly Ile Lys Ala Gly
 85 90 95
 Ile Asn Ala Trp Trp Ser Ala Gln Glu Cys Tyr Gln Ala His
 100 105 110

<210> 33081

<211> 133

<212> PRT

<213> A.fumigatus

<400> 33081

Thr Pro Leu Pro Trp Trp Pro Phe Gly Tyr Gly Lys Ser Tyr Ser Thr

13112

1		5		10		15									
Phe	Glu	Tyr	Gly	Pro	Val	Thr	Val	Asp	Lys	Ala	Asn	Val	Thr	Ala	Ser
			20					25					30		
Asp	Thr	Val	Thr	Val	Ser	Val	Asp	Val	Thr	Asn	Thr	His	Lys	Ser	Met
		35					40					45			
Asp	Gly	Thr	Glu	Val	Val	His	Val	Tyr	Ile	Gln	Asp	Glu	Ile	Ser	Ser
	50					55					60				
Val	Val	Val	Pro	Asn	Arg	Gln	Leu	Lys	Gly	Phe	Glu	Lys	Val	Val	Ile
65					70				75					80	
Pro	Ala	Lys	Asn	Thr	Lys	Thr	Val	Lys	Ile	Lys	Ile	Lys	Val	Gln	Asp
			85					90					95		
Leu	Gly	Leu	Trp	Asn	Ser	Ala	Met	Lys	Tyr	Val	Val	Glu	Pro	Gly	Ala
		100						105					110		
Phe	Thr	Ala	Leu	Val	Gly	Ser	Ser	Ala	Asp	Ile	Arg	Gly	Asn	Ala	
		115					120					125			
Thr	Phe	Tyr	Val	Gln											
		130													

<210> 33082

<211> 70

<212> PRT

<213> A.fumigatus

<400> 33082

Asp	Gly	Ile	Pro	Arg	Ala	Glu	Ala	Lys	Leu	Leu	Ala	Met	Glu	Glu	Val
1				5				10					15		
Ser	Leu	Ala	Gly	Asn	Arg	Val	Leu	Pro	Thr	Asn	Leu	Gly	Gly	Gly	Gly
		20						25				30			
Cys	Cys	Trp	Cys	Cys	Ala	Cys	Ser	Gly	Lys	Val	Gly	Asp	Ser	Leu	Val
		35				40					45				
Val	Ser	Asp	Ser	Pro	Ala	Pro	Val	Cys	Ala	Val	Ala	Ala	Asp	Leu	Val
	50					55					60				
Leu	Thr	Gly	Phe	Ser	Cys										
65					70										

<210> 33083

<211> 536

<212> PRT

<213> A.fumigatus

<400> 33083

Ala	Leu	Arg	Thr	Leu	Gln	Leu	Leu	Glu	Gln	His	His	Lys	Lys	Leu	Ala
1				5				10						15	
Gln	Ile	Leu	Arg	Phe	Gln	His	Glu	Asn	Pro	Val	Ser	Thr	Lys	Ser	Ala
		20						25					30		
Ala	Thr	Ala	Gln	Thr	Gly	Ala	Gly	Glu	Ser	Glu	Thr	Thr	Lys	Leu	Ser
		35				40						45			
Pro	Thr	Leu	Pro	Glu	Gln	Ala	Gln	His	Gln	Gln	Gln	Pro	Pro	Pro	Pro
	50					55					60				
Arg	Leu	Val	Gly	Asn	Thr	Arg	Leu	Pro	Ala	Arg	Glu	Thr	Ser	Ser	Ile
65				70					75					80	
Ala	Ser	Asn	Leu	Ala	Ser	Ala	Arg	Gly	Ile	Pro	Ser	Gln	Pro	Leu	Arg
		85						90					95		
Pro	Ser	Pro	Val	Ser	Pro	Thr	Val	Ser	Ser	Gln	Gln	Ala	Gly	Ala	Arg
		100						105					110		
Met	Thr	Gly	Gly	Pro	Ser	Lys	Leu	Lys	Thr	Gly	Glu	Ser	Arg	Leu	Arg

	115		120		125	
Gly Thr Gln Ala His Asn Leu Arg Asp Arg Pro Ser Gly Val Ser Ala						
130			135		140	
Ser Lys Gln Pro Trp Ser Pro Pro Val Thr Ser Pro Thr Gly Ile Thr						
145			150		155	160
Thr Gln Gln Phe Val Pro Pro Glu Ala Val Glu Ser Ser Arg Gln Lys						
	165		170			175
Ser Lys Thr Ala Pro Ser Glu Glu Pro Phe Gln Arg Phe Tyr Ser Thr						
	180		185			190
Phe Glu Gly Leu Ile Ser Lys Ile Ser Ala Pro Leu Ala Phe Ala Gly						
	195		200		205	
Leu Pro Leu Gly Thr Glu Ala Ser Thr Gln Ser Asp Ser Ala Arg Arg						
	210		215		220	
Lys Ser Ser Ala Ala Asp Thr Lys Val Asp Arg His Gln Ala Thr Ser						
225		230		235		240
Asp Arg Leu Gly Gln Phe Thr Glu Pro Asp Val Ser Arg Ile Phe Ser						
	245		250			255
Arg Ala Ala Leu Arg Ala Ile Arg Asp Ser Asn Gly Asn Gly Ala Gly						
	260		265			270
Asn Thr Ala Glu Ser Phe Tyr Val Val Pro Thr Thr Gly Gly Thr Val						
	275		280		285	
Ser Tyr Ala Gly Ile Leu Thr Arg Ala Glu Lys Glu Ala Arg Arg Asn						
	290		295		300	
Ser Leu Asp Glu Ala Asp Asp Asp Phe Val Asp Ala Arg Glu Thr Pro						
305		310		315		320
Ala Ser Pro Glu Leu Arg Gln Ser Leu Thr Gly Ser Arg Gly Arg Ala						
	325		330			335
Ser Arg Ala Ala Asp Lys Leu Thr Thr Leu His Asn Pro Lys Thr Met						
	340		345			350
Glu Glu Leu Gln Met Glu Asn Gln Ala Leu Lys His Leu Ser Asp Thr						
	355		360		365	
Leu Ser Lys Arg Leu His Met Trp Glu Val Asn Ala Gln Ser Ser Ser						
	370		375		380	
Met Ala Leu Gln Gln Ser Leu Lys Ala Met His His His Thr Gly Pro						
385		390		395		400
Trp Pro Asp His Pro Tyr Gly Ala Gln Gly Ser Ser Ala Ala Val Thr						
	405		410			415
Pro Ser Ala Ala Met Asp Ser Asp Gln Arg Ile Lys Glu Leu Glu Glu						
	420		425			430
Arg Met Arg Arg Asn Glu Lys Glu Leu Glu Arg Val Arg Arg Glu Asn						
	435		440		445	
Glu Lys Leu Arg Asp Val Leu Gly Arg Tyr Arg Glu Arg Trp Glu Lys						
	450		455		460	
Leu Lys Glu Gly Ala Lys Thr Arg Arg Ala Glu Gly Arg Ala Ala Ala						
465		470		475		480
Gly Pro Ser Ser Thr Ala Gly Thr Val Glu Ser Ser Asp Lys Pro Gly						
	485		490			495
Ala Thr Pro Asn Pro Asp Ser Asn Pro Gln Glu Gln Ala Glu Ser Ala						
	500		505			510
Lys Ser Lys Ser Asp Gly Asp Met Glu Asn Glu Ser Thr Gly Pro Glu						
	515		520		525	
Ala Lys Gly Asp Ala Ser Asp Ser						
	530		535			

<210> 33084

<211> 63

Tyr	Gly	Ile	Arg	Ala	Gly	Ser	Gly	Gly	Asp	Gly	Gly	Gly	Gly	Gly	Gly	Gly
1				5					10						15	
Gly	Gly	Gly	Gly	Gly	Val	Val	Ser	Ala	Thr	Phe	Pro	Arg	Asn	Met	Glu	
				20				25					30			
Ala	Leu	Ala	Arg	Lys	Ser	Leu	Thr	Lys	Pro	Ile	Glu	Ile	Val	Val	Gly	
				35				40				45				
Gly	Lys	Ser	Val	Val	Ala	Pro	Glu	Ile	Thr	Gln	Ile	Val	Glu	Val	Arg	
	50					55					60					
Asn	Glu	Asp	Thr	Lys	Cys	Gly	Arg	Leu	Val	Glu	Ile	Leu	Gly	Asn	Leu	
65					70						75				80	
Tyr	Ser	Asp	Asp	Ala	Asn	Glu	Glu	Gly	Arg	Gly	Gly	Met	Leu	Val	Asp	
				85					90						95	
Arg	Gln	Glu	Ala	Ala	Gly	Ala	Leu	Leu	Arg	Glu	Leu	Met	Arg	Lys	Gly	
				100				105					110			
Tyr	Pro	Cys	Met	Ser	Ile	His	Gly	Gly	Lys	Asp	Gln	Ile	Asp	Arg	Asp	
				115			120					125				
Ser	Thr	Ile	Glu	Asp	Phe	Lys	Ala	Gly	Ile	Phe	Pro	Val	Leu	Ile	Ala	
	130					135					140					
Thr	Ser	Val	Ala	Ala	Arg	Gly	Leu	Asp	Val	Lys	Gln	Leu	Lys	Leu	Val	
145					150					155					160	
Val	Asn	Tyr	Asp	Ala	Pro	Asn	His	Leu	Glu	Asp	Tyr	Val	His	Arg	Ala	
				165					170						175	
Gly	Arg	Thr	Ala	Arg	Ala	Gly	Asn	Thr	Gly	Thr	Ala	Val	Thr	Phe	Leu	
				180				185					190			
Thr	Glu	Glu	Gln	Glu	Arg	Tyr	Ser	Val	Asp	Ile	Ala	Lys	Ala	Leu	Arg	
				195			200					205				
Gln	Ser	Gly	Gln	Lys	Val	Pro	Glu	Pro	Val	Gln	Lys	Met	Val	Asp	Ser	
	210					215					220					
Phe	Leu	Glu	Lys	Val	Lys	Ala	Gly	Lys	Glu	Lys	Ala	Ser	Ala	Ser	Gly	
225					230					235					240	
Phe	Gly	Gly	Lys	Gly	Leu	Glu	Arg	Leu	Asp	Gln	Glu	Arg	Asp	Ala	Ala	
				245					250					255		
Arg	Met	Arg	Glu	Arg	Arg	Thr	Tyr	Lys	Thr	Gly	Glu	Glu	Gly	Glu	Asp	
			260					265					270			
Glu	Glu	Asp	Lys	Glu	Asp	Lys	Ala	Glu	Lys	Ala	Asp	Glu	Arg	Phe	Ser	
	275					280					285					
Lys	Ile	Val	Ser	Ser	Val	Gln	Ser	Ala	Ala	Ala	Ala	Ala	Thr	Thr	Pro	

13115

290 295 300
 Leu Pro Gly Val Pro Lys Gly Ile Asp Leu Asp Gly Lys Ile Thr Val
 305 310 315 320
 His Arg Thr Glu Lys Asp Pro Ala Gly Ala Ser Lys Asn Pro Leu Asp
 325 330 335
 Lys Val Gly Ser Ala Val Ala Asp Ile His Ala Arg Leu Ser Arg Ala
 340 345 350
 Gly Val Met Arg Ser Gly Val Pro Ile Asp Asn Arg Gly Pro Asp Ala
 355 360 365
 Gly Ala Phe His Ala Thr Leu Glu Ile Asn Asp Phe Pro Arg Lys Leu
 370 375 380
 Phe Pro Val Met Val Arg Tyr
 385 390

<210> 33086

<211> 340

<212> PRT

<213> A.fumigatus

<400> 33086

Arg Pro Glu Ser Glu Lys Met Glu Val Asp Ala Ala Glu Glu Glu Val
 1 5 10 15
 Asp Pro Leu Asp Ala Phe Met Ser Glu Leu Ala Glu Thr Ala Pro Pro
 20 25 30
 Lys Lys Thr Thr Gly Ala Arg Phe Thr Lys Ala Lys Asp Gln Gln Pro
 35 40 45
 Glu Ala Met Phe Gly Asp Glu His Asp Val Asp Leu Thr Ala Val Gly
 50 55 60
 Glu Gly Asp Ala Asp Asp Phe Leu Ala Ile Ala Asn Lys Ala Lys Lys
 65 70 75 80
 Lys Lys Asp Ile Pro Thr Val Asp His Glu Lys Met Glu Tyr Glu Pro
 85 90 95
 Phe Arg Lys Lys Phe Tyr Thr Glu Pro Ser Asn Leu Ala Glu Met Thr
 100 105 110
 Asp Glu Glu Ala Ala Ser Leu Arg Leu Glu Leu Asp Gly Ile Lys Val
 115 120 125
 Arg Gly Val Asp Val Pro Lys Pro Val Met Lys Trp Ser Gln Cys Gly
 130 135 140
 Leu Gly Val Gln Thr Leu Asp Val Ile Gln Lys Leu Gly Tyr Glu Asn
 145 150 155 160
 Pro Thr Ser Ile Gln Ser Gln Ala Ile Pro Ala Ile Met Ser Gly Arg
 165 170 175
 Asp Val Ile Gly Val Ala Lys Thr Gly Ser Gly Lys Thr Ile Ala Phe
 180 185 190
 Leu Ile Pro Met Phe Arg His Ile Arg Asp Gln Arg Pro Leu Glu Asn
 195 200 205
 Met Glu Gly Pro Ile Gly Leu Ile Met Thr Pro Thr Arg Glu Leu Ala
 210 215 220
 Thr Gln Ile His Lys Asp Cys Lys Pro Phe Leu Lys Ala Leu Asn Leu
 225 230 235 240
 Arg Ala Val Cys Ala Tyr Gly Gly Ala Pro Ile Lys Asp Gln Ile Ala
 245 250 255
 Glu Leu Lys Arg Gly Ala Glu Ile Val Val Cys Thr Pro Gly Arg Met
 260 265 270
 Ile Asp Leu Leu Ala Ala Asn Ala Gly Arg Val Thr Asn Leu Arg Arg
 275 280 285

13116

Val Thr Tyr Val Val Leu Asp Glu Ala Asp Arg Met Phe Asp Met Gly
 290 295 300
 Phe Gly Arg Gly Val Val Glu Met Val Ala Gly Gly Gly Gly Gly Gly
 305 310 315 320
 Glu Ala Val Trp Cys Arg Pro Pro Ser Leu Gly Thr Trp Arg Leu Trp
 325 330 335
 Leu Val Ser Arg
 340

<210> 33087

<211> 132

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (85), (87), (90), (95), (102), (104), (111)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33087

Ala Phe Cys Ala Ala Ser Phe Asp Pro Asn Leu Pro Phe Trp Ala Phe
 1 5 10 15
 Ala Ala Asp Ser Ala Arg Phe Trp His Ser Pro Val Ser Gln Arg Pro
 20 25 30
 His Thr Arg Ala Ala Pro Leu Arg Ser Thr Val Ser Leu Thr Cys Ala
 35 40 45
 Ala Ile Ala Ala Phe Val Arg Ala Ser Ala Leu Ser Ala Pro Gly Thr
 50 55 60
 Ser Gly Ala Ala Ser Pro Ser Asp Leu Pro Gly Asp Leu Asn Gly Ala
 65 70 75 80
 Phe Asp Phe Ala Xaa Ser Xaa Ala Arg Xaa Ala Ala Phe Gly Xaa Gly
 85 90 95
 Leu Ala Ala Glu Pro Xaa Thr Xaa Ala Gly Arg Glu Lys Gly Xaa Ala
 100 105 110
 Ser Phe Leu Glu Val Glu Gln Lys Ile Thr His Leu Phe Gly Leu Gly
 115 120 125
 Val Ile Ala Leu
 130

<210> 33088

<211> 252

<212> PRT

<213> A.fumigatus

<400> 33088

Cys Phe Lys His Ala Glu Thr Ile Asp Ile Val Ile Met Thr Leu Gly
 1 5 10 15
 Tyr Leu Ser Met His Leu Ser Phe Val Ser Leu Phe Phe Ser Met Arg
 20 25 30
 Arg Leu Gly Ser Asn Phe Trp Leu Ala Ala Thr Val Leu Phe Ser Gly
 35 40 45
 Val Phe Ala Phe Leu Phe Gly Leu Leu Val Thr Thr Glu Leu Gly Val
 50 55 60
 Pro Ile Asn Val Leu Leu Leu Ser Glu Gly Leu Pro Phe Leu Val Val
 65 70 75 80
 Thr Ile Gly Phe Glu Lys Pro Ile Ile Leu Thr Arg Ala Val Leu Thr

```
<210> 33089
<211> 159
<212> PRT
<213> A.fumigatus
```

Asn	Ser	Cys	Thr	Leu	Thr	Phe	Tyr	Trp	Pro	Gln	Gly	Val	Asn	His	Leu
1				5					10					15	
Ala	Leu	Thr	Thr	Phe	Ile	Phe	Ser	Asp	Ser	Leu	Ser	Lys	Ser	Ser	Ser
			20					25					30		
Ile	Ala	Pro	Ala	Ala	Thr	Glu	Leu	Pro	Ile	Pro	Ser	Asn	Ala	Ser	Ala
		35					40					45			
Gln	Pro	Val	Pro	Phe	Thr	Pro	Asn	Leu	Phe	Ser	Pro	Phe	Ser	His	Asp
	50					55					60				
Ser	Ser	Leu	Ala	Phe	Thr	Leu	Pro	Phe	Asp	Gln	Val	Pro	Gln	Phe	Leu
65					70					75					80
Lys	Ala	Val	Gln	Glu	Ile	Pro	Asp	Thr	Ser	Ser	Asp	Glu	Asp	Asp	Gly
				85				90						95	
Glu	Gln	Lys	Lys	Trp	Ile	Met	Arg	Ala	Ala	Arg	Gly	Pro	Ala	Tyr	Gly
			100					105					110		
Ser	Gly	Gly	Ala	Ile	Lys	Leu	Trp	Leu	Ala	Asp	Ala	Trp	Gly	Ser	Phe
		115					120					125			
Val	Asp	Leu	Ile	Lys	Val	Asn	Val	Phe	Ala	Leu	Arg	Tyr	Ala	Thr	Ile
	130					135					140				
Phe	Ala	Asp	Val	Leu	Ser	Thr	Arg	Lys	Leu	Leu	Ile	Leu	Ser	Ser	
145					150						155				

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<210> 33090
<211> 75
<212> PRT
<213> A.fumigatus
```

Thr Val Leu His Leu Pro Phe Pro Arg Cys Thr Leu Thr Gln Pro Lys

13118

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1           5           10           15
Ile Pro Ala Ala Leu Lys Gln Ser Ile Asp Val His Leu Thr Ser Asn
           20           25           30
Ile Pro Gly Val Pro Asp Ala Val Glu Gln Thr Pro Phe Lys Glu Thr
           35           40           45
Asp Val Arg Arg Thr Gly Glu Gln Cys Asn Asn His Asn Gly Val Tyr
           50           55           60
Arg Val Leu Thr Ser Val Thr Arg Asp Gly Leu
65           70           75

```

<210> 33091

<211> 115

<212> PRT

<213> A.fumigatus

<400> 33091

```

Arg Ser Leu Thr Ser Ser Ala Pro Val Val Arg Cys Arg Ser Glu Asn
1           5           10           15
Ser Pro Gly Lys Asn Asp Trp Leu Leu Glu Thr Asp Ser Asp Asn Lys
           20           25           30
Glu Trp Lys Ala Leu Gly Gln Gln Lys Asp Ile Asp Arg Asp Ala Lys
           35           40           45
Leu Arg Cys Asp Gln Lys Thr Lys Gln Lys Cys Lys Asn Ala Arg Glu
           50           55           60
Glu Asp Cys Gly Ser Gln Pro Glu Val Arg Ala Glu Thr Pro His Arg
65           70           75           80
Glu Glu Glu Gly His Glu Ala Lys Val His Arg Lys Val Ser Gln Gly
           85           90           95
His Asp Asp Asn Ile Asn Ser Phe Arg Val Leu Lys Thr Ser Ala Asn
           100           105           110
Met Val Ala
           115

```

<210> 33092

<211> 162

<212> PRT

<213> A.fumigatus

<400> 33092

```

Ala Cys Leu Gly Ala Ile Gly Leu Thr Cys Met Cys Cys Gln Arg Ala
1           5           10           15
Leu Asn Val Tyr Thr Thr Asp Thr Ser Leu Glu Ser Leu Ala Ser Arg
           20           25           30
Trp Tyr Val Cys Trp Asn Asp Ile Val Glu Val Leu Pro Leu Phe Asn
           35           40           45
Met Asn Ile Leu Thr Val Pro Ala Tyr Gly Lys Ile Ala Asn Asn Glu
           50           55           60
Val Val Lys Ile Glu Cys Leu Asp Trp Thr Gly Gly Gln Ile Lys Asn
65           70           75           80
Asn Asp Ser Ala Asp Asp Ile Lys Asn Val Asp Leu Thr Gln Ile His
           85           90           95
Tyr Leu Ser Gly Pro Phe Glu Ile Glu Thr Ala Glu Pro Gly Asp Val
           100           105           110
Leu Leu Val Glu Ile Gln Asp Val Gln Pro Phe Glu Asp Gln Pro Trp
           115           120           125
Gly Phe Thr Gly Ile Phe Ser Arg His Asn Gly Gly Gly Phe Leu Asp

```

13119

130		135		140	
Glu Ile Tyr Pro Glu Pro Cys Ala Cys Leu Leu Pro Thr Leu His His					
145		150		155	160
Cys Thr					

<210> 33093
 <211> 110
 <212> PRT
 <213> A.fumigatus

<400> 33093

Leu Thr Ser Leu Pro Tyr Ser Ala Lys Ala Ile Trp Asp Phe Glu Gly					
1	5		10		15
Ile Phe Cys Ser Ser Arg His Ile Pro His Val Arg Phe Ala Gly Leu					
	20		25		30
Ile His Pro Gly Ile Leu Gly Cys Ala Pro Ser Ala Glu Val Leu Ala					
	35		40		45
Glu Trp Asn Arg Arg Glu Gly Glu Leu Ile Ala Thr Asn Thr Arg Gly					
	50		55		60
Arg Asp Val Ala Lys Pro Pro Glu Pro Lys Asn Val His Ala Gly Ser					
65		70		75	80
Ala Asp Glu Asp Leu Lys Ala Lys Ile Gly Arg Glu Gly Ala Arg Thr					
	85		90		95
Ile Pro Val Arg Ile His Leu Thr Pro Ser Ile Pro Trp Thr					
	100		105		110

<210> 33094
 <211> 64
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (43)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 33094

Gly Arg Pro Glu His Gly Gly Asn Cys Asp Ile Lys Asn Leu Ser Arg					
1	5		10		15
Gly Ser Lys Val Tyr Leu Pro Val His Val Pro Gly Ala Lys Phe Ser					
	20		25		30
Val Gly Asp Leu His Phe Ser Gln Gly Asp Xaa Glu Ile Ser Phe Cys					
	35		40		45
Gly Ala Ile Glu Met Ala Gly Val Ile Thr Leu Lys Phe Thr Val Ile					
	50		55		60

<210> 33095
 <211> 122
 <212> PRT
 <213> A.fumigatus

<400> 33095

Leu Glu Pro Tyr Phe Cys Arg Ile His Phe Thr Pro Glu Gln Lys Arg					
1	5		10		15
Arg Trp Phe Met Asp Arg Gln Gly Val Leu Phe Gly Phe Ala Phe Ala					

Parameter	Estimate	Standard Error	t-Statistic	p-Value
Intercept	0.0000	0.0000	0.0000	0.0000
Age	0.0000	0.0000	0.0000	0.0000
Age squared	0.0000	0.0000	0.0000	0.0000
Age cubed	0.0000	0.0000	0.0000	0.0000
Age quart	0.0000	0.0000	0.0000	0.0000
Age quint	0.0000	0.0000	0.0000	0.0000
Age sext	0.0000	0.0000	0.0000	0.0000
Age sept	0.0000	0.0000	0.0000	0.0000
Age oct	0.0000	0.0000	0.0000	0.0000
Age non	0.0000	0.0000	0.0000	0.0000
Age dec	0.0000	0.0000	0.0000	0.0000
Age elev	0.0000	0.0000	0.0000	0.0000
Age twelv	0.0000	0.0000	0.0000	0.0000
Age thirte	0.0000	0.0000	0.0000	0.0000
Age fourte	0.0000	0.0000	0.0000	0.0000
Age fift	0.0000	0.0000	0.0000	0.0000
Age sixt	0.0000	0.0000	0.0000	0.0000
Age seve	0.0000	0.0000	0.0000	0.0000
Age eigh	0.0000	0.0000	0.0000	0.0000
Age nine	0.0000	0.0000	0.0000	0.0000
Age ten	0.0000	0.0000	0.0000	0.0000
Age elev	0.0000	0.0000	0.0000	0.0000
Age twelv	0.0000	0.0000	0.0000	0.0000
Age thirte	0.0000	0.0000	0.0000	0.0000
Age fourte	0.0000	0.0000	0.0000	0.0000
Age fift	0.0000	0.0000	0.0000	0.0000
Age sixt	0.0000	0.0000	0.0000	0.0000
Age seve	0.0000	0.0000	0.0000	0.0000
Age eigh	0.0000	0.0000	0.0000	0.0000
Age nine	0.0000	0.0000	0.0000	0.0000
Age ten	0.0000	0.0000	0.0000	0.0000
Age elev	0.0000	0.0000	0.0000	0.0000
Age twelv	0.0000	0.0000	0.0000	0.0000
Age thirte	0.0000	0.0000	0.0000	0.0000
Age fourte	0.0000	0.0000	0.0000	0.0000
Age fift	0.0000	0.0000	0.0000	0.0000
Age sixt	0.0000	0.0000	0.0000	0.0000
Age seve	0.0000	0.0000	0.0000	0.0000
Age eigh	0.0000	0.0000	0.0000	0.0000
Age nine	0.0000	0.0000	0.0000	0.0000
Age ten	0.0000	0.0000	0.0000	0.0000
Age elev	0.0000	0.0000	0.0000	0.0000
Age twelv	0.0000	0.0000	0.0000	0.0000
Age thirte	0.0000	0.0000	0.0000	0.0000
Age fourte	0.0000	0.0000	0.0000	0.0000
Age fift	0.0000	0.0000	0.0000	0.0000
Age sixt	0.0000	0.0000	0.0000	0.0000
Age seve	0.0000	0.0000	0.0000	0.0000
Age eigh	0.0000	0.0000	0.0000	0.0000
Age nine	0.0000	0.0000	0.0000	0.0000
Age ten	0.0000	0.0000	0.0000	0.0000
Age elev	0.0000	0.0000	0.0000	0.0000
Age twelv	0.0000	0.0000	0.0000	0.0000
Age thirte	0.0000	0.0000	0.0000	0.0000
Age fourte	0.0000	0.0000	0.0000	0.0000
Age fift	0.0000	0.0000	0.0000	0.0000
Age sixt	0.0000	0.0000	0.0000	0.0000
Age seve	0.0000	0.0000	0.0000	0.0000
Age eigh	0.0000	0.0000	0.0000	0.0000
Age nine	0.0000	0.0000	0.0000	0.0000
Age ten	0.0000	0.0000	0.0000	0.0000
Age elev	0.0000	0.0000	0.0000	0.0000
Age twelv	0.0000	0.0000	0.0000	0.0000
Age thirte	0.0000			

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<210> 33096
<211> 61
<212> PRT
<213> A.fumigatus
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<210> 33097
<211> 139
<212> PRT
<213> A.fumigatus
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<210> 33098
<211> 100
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<212> PRT

<213> A.fumigatus

<400> 33098

Lys Gln Met Ala Ser Thr Val Pro Ile Thr Tyr Arg Val Ala Ser Ile
 1 5 10 15
 Pro Gly Asp Gly Ile Gly Pro Glu Val Val Glu Ala Thr Ile Gln Val
 20 25 30
 Val Arg Lys Leu Cys Gln Lys Phe Gln Thr Phe Asp Ile Asp Phe Thr
 35 40 45
 His Ile Pro Trp Gly Thr Glu Tyr Tyr Lys Ala His Gly Arg Tyr Ala
 50 55 60
 Ser Glu Asp Cys Leu Asp Thr Leu Arg Gln Phe Asp Ala Val Leu Phe
 65 70 75 80
 Gly Ala Val Gly Ala Pro Gly Lys Ile Val Leu Ser Asp Arg Leu Gly
 85 90 95
 Pro Thr Ser Asn
 100

<210> 33099

<211> 296

<212> PRT

<213> A.fumigatus

<400> 33099

Asp Cys Pro Glu Arg Ser Thr Arg Ala Asn Gln Gln Leu Thr Trp Leu
 1 5 10 15
 Asp Val Pro Asp His Ile Ser Leu Trp Gly Leu Leu Leu Ala Ile Arg
 20 25 30
 Arg Pro Leu Gln Leu Tyr Ala Asn Val Arg Pro Val Arg Thr Phe Pro
 35 40 45
 Gly Thr Lys Cys Pro Leu Asn Thr Ala Thr Lys Gly Ile Asp Trp Val
 50 55 60
 Leu Val Arg Glu Asn Ser Glu Gly Glu Tyr Ser Gly Gln Gly Gly Arg
 65 70 75 80
 Ser His Val Gly Gln Pro Trp Glu Ala Ala Thr Glu Val Ala Ile Phe
 85 90 95
 Thr Arg Val Gly Ile Glu Arg Ile Met Arg Phe Ala Phe Glu Thr Ala
 100 105 110
 Arg Ser Arg Pro Arg Arg His Leu Thr Val Val Thr Lys Ser Asn Ser
 115 120 125
 Met Arg Asn Gly Met Val Leu Trp Asp Gln Val Ala Ala Glu Val Ala
 130 135 140
 Arg Glu Phe Pro Asp Val Thr Trp Asp Lys Met Leu Val Asp Ala Met
 145 150 155 160
 Thr Ile Arg Met Val Gly Lys Pro Asp Ser Leu Asp Thr Ile Val Gly
 165 170 175
 Thr Asn Leu His Met Asp Ile Leu Ser Asp Leu Ala Ala Ala Leu Ala
 180 185 190
 Gly Ser Ile Gly Val Ala Pro Ser Ser Asn Leu Asp Pro Thr Arg Lys
 195 200 205
 Asn Pro Ser Leu Phe Glu Pro Val His Gly Ser Ala Phe Asp Ile Thr
 210 215 220
 Gly Lys Gly Val Ala Asn Pro Val Ala Thr Phe Trp Ser Ala Ala Glu
 225 230 235 240
 Met Leu Ser Trp Leu Gly Glu Lys Asp Ala Ala Lys Gln Leu Met Gly

13122

				245				250					255		
Cys	Val	Glu	Arg	Val	Cys	Ala	Ala	Gly	Val	Leu	Thr	Pro	Asp	Leu	Gly
			260					265					270		
Gly	Thr	Ala	Asn	Thr	Gln	Gly	Val	Val	Asp	Ala	Val	Cys	Ala	Glu	Ile
		275					280					285			
Glu	Arg	Leu	Val	Leu	Gln	His	Asp								
	290					295									

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<210> 33100
<211> 249
<212> PRT
<213> A.fumigatus
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[illegible]

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<210> 33101
<211> 150
<212> PRT
<213> A.fumigatus
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<400> 33101
Ala Ala Ser Thr Trp Val Leu Ala Thr Ser Leu Leu Pro Thr Leu Leu
1          5          10          15
Leu Leu Leu Leu Ser Val Met Val Val Leu Phe Ser Cys Leu Leu Ala
```


13123

		20						25					30				
Cys	Gly	Arg	Cys	Phe	Leu	Ser	Ser	Leu	Glu	Leu	Glu	Leu	His	Asp	Arg		
		35						40					45				
Ile	Leu	Leu	Ser	Arg	Pro	Leu	Thr	Gln	Phe	Arg	Glu	Met	Ala	Ile	Gly		
	50					55					60						
Asn	Thr	Phe	Gly	Ala	Thr	Ala	Leu	Ser	Ser	Tyr	Gly	Gly	Phe	Trp	Ile		
65					70					75					80		
Ser	Phe	Ala	Ile	Val	Leu	Thr	Pro	Gly	Gly	Phe	Asn	Ile	Glu	Ser	Ala		
				85					90					95			
Leu	Val	Lys	Ala	Asp	Asn	Gly	Ser	Thr	Ser	Met	Phe	Asp	Asn	Ser	Phe		
			100					105					110				
Gly	Leu	Phe	Leu	Met	Val	Arg	Ser	Ser	Ala	Arg	Val	Leu	Ser	Ser	Cys		
	115						120					125					
Gln	Arg	Pro	Gln	Leu	Thr	Thr	His	Arg	Ala	Gly	Ser	Ser	Ser	Pro	Pro		
	130					135					140						
Ser	Cys	Cys	Ser	Ala	Pro												
145					150												

<210> 33102

<211> 75

<212> PRT

<213> A.fumigatus

<400> 33102

Ser	Ser	Arg	Ala	His	Gln	Arg	Ser	Thr	Phe	Asp	Gly	Leu	Ala	Gln	Gln		
1				5					10					15			
Arg	His	Asp	Ser	Lys	Lys	Asn	Asn	Thr	Gln	Lys	Asn	Lys	Asn	Lys	Thr		
			20					25					30				
Gly	Ala	Arg	Ala	Glu	Thr	Gly	His	Thr	Leu	Tyr	Val	Ile	Tyr	Leu			
	35					40					45						
Glu	Ala	Phe	Phe	Phe	Phe	Val	Phe	Ser	Ser	Ser	Leu	Ala	Ala	Gly	Val		
	50					55					60						
Val	Thr	Arg	Cys	Gly	Ser	Ala	Ala	Val	Val	Arg							
65					70					75							

<210> 33103

<211> 138

<212> PRT

<213> A.fumigatus

<400> 33103

Ser	Thr	Met	Ser	Thr	Glu	Gln	Asn	Ala	Ala	Leu	Glu	Lys	Asp	Val	Gly		
1			5						10					15			
Pro	Asp	Asn	Ser	Ile	Asn	Gly	Thr	Pro	Glu	Asn	Thr	Asn	Ala	Pro	Gln		
			20					25					30				
Leu	Thr	Ser	Gln	Met	Thr	His	Glu	Glu	His	Glu	Val	Ala	Lys	Ala	Ala		
	35					40						45					
Ala	Arg	Phe	Gly	Tyr	Gly	Pro	Leu	Ala	Lys	Pro	Asn	Pro	Asn	Glu	Tyr		
	50					55					60						
Asn	Leu	Pro	Pro	Phe	Gly	Gly	Glu	Phe	Gln	Pro	Gly	Leu	Tyr	Lys	Ser		
65				70					75					80			
Val	Glu	Lys	Arg	Lys	Phe	Ala	Asn	Pro	Ala	Pro	Leu	Gly	Leu	Cys	Ala		
				85					90					95			
Phe	Ala	Leu	Thr	Thr	Phe	Val	Leu	Ser	Cys	Ile	Asn	Met	Gly	Ala	Arg		
			100					105					110				
Asp	Ile	Thr	Ala	Pro	Asn	Ile	Val	Val	Ala	Leu	Ala	Phe	Gly	Tyr	Gly		

13124

115 120 125
 Gly Leu Val Gln Leu Leu Ala Gly Met Trp
 130 135

<210> 33104
 <211> 135
 <212> PRT
 <213> A.fumigatus

<400> 33104
 Gln Leu Phe Arg Pro Val Pro Asp Gly Glu Ile Phe Cys Ser Gly Phe
 1 5 10 15
 Val Leu Leu Ser Ala Thr Thr Ala Asn Asn Pro Gln Gly Trp Phe Ile
 20 25 30
 Phe Thr Thr Ile Leu Leu Phe Cys Thr Leu Arg Ser Thr Val Ala Phe
 35 40 45
 Phe Leu Leu Phe Phe Phe Leu Asp Leu Ala Phe Leu Leu Leu Gly Ile
 50 55 60
 Gly Tyr Ile Gln Arg Asp Ser Ala Gly Lys Pro Asn Pro Pro Val Ile
 65 70 75 80
 Lys Ala Gly Gly Phe Phe Gly Leu Leu Ala Ala Phe Thr Ala Trp Tyr
 85 90 95
 Asn Ala Leu Ala Gly Ile Ala Asp Ser Ser Asn Ser Phe Phe Val Ile
 100 105 110
 Pro Val Ala His Phe Pro Trp Ser Pro Thr Gly Gln Ala Arg Arg Thr
 115 120 125
 Lys Thr Glu Arg Glu Thr Val
 130 135

<210> 33105
 <211> 119
 <212> PRT
 <213> A.fumigatus

<400> 33105
 Phe Val Asp Ser Leu Ile Leu Met Arg Val Leu Arg Asn Glu Ala His
 1 5 10 15
 Arg Arg Ile Ser Trp Leu Ile Ala Glu Lys Ser Phe Lys Arg Lys Phe
 20 25 30
 Ile Gly Leu Leu Ala Arg Gly Ile Gly Thr Val Pro Val Ala Arg Ala
 35 40 45
 Met Asp Asn Val Lys Pro Gly Val Gly Thr Ile Tyr Leu Pro Asp Pro
 50 55 60
 Val Asn Gln Pro Thr Leu Leu Arg Gly Val Gly Thr Asn Phe Glu Gly
 65 70 75 80
 Pro Glu Phe Glu Lys Glu Gly Thr Ile Ser Leu Pro Thr Ile Asn Gly
 85 90 95
 Thr Ser His Ser Ala Ala Ile Ala Glu Ser Leu His His Gly Ala Gly
 100 105 110
 Arg Ser Arg Ala Ser Arg Thr
 115

<210> 33106
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 33106

Arg Leu Leu Arg Glu Leu Ser Cys Cys Thr His Gln Gly Glu Tyr Arg
 1 5 10 15
 Cys Lys Pro Phe Glu Gly His Ile Ile Asn Thr Asn Leu Ser Leu His
 20 25 30
 Leu Glu Ala Ser His Leu Ser Pro Ile Asn Thr Tyr Ser Ser Ala Leu
 35 40 45
 His Ser Ile Lys Leu Met Arg Cys Phe Leu Pro Ser Leu Ser Ser Lys
 50 55 60
 Ser Ala
 65

<210> 33107

<211> 111

<212> PRT

<213> A.fumigatus

<400> 33107

Ala Ile Ala Ala Ala Arg Arg Lys Glu Gly Arg Leu Ala Gln Gly His
 1 5 10 15
 Phe Glu Leu Leu Tyr Asp Ile Met Gly Lys Lys Gln Pro Tyr Ile Pro
 20 25 30
 Pro Leu Ile Gly Trp Leu Tyr Asp Leu Val Leu Trp Ser Phe Ser Val
 35 40 45
 Leu Ile Asp Leu Phe Phe Arg Glu Val His Pro Arg Gly Ser Trp Lys
 50 55 60
 Ile Pro Arg Arg Gly Pro Leu Ile Leu Val Ala Ala Pro His Ala Asn
 65 70 75 80
 Gln Val Gly Phe Cys Ser Ser Phe His Thr Tyr Ile Phe Asp Phe Gly
 85 90 95
 Cys Ser Ala Cys Phe Met Leu Leu Leu Val Ile Ser Ser Gly Arg
 100 105 110

<210> 33108

<211> 272

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (58)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33108

Ser Ser Ser Leu Ile Cys Leu Ser Gln Ile His Phe Gly Glu Gly Lys
 1 5 10 15
 Ser Asn Thr His Asn Arg Val Ile Ala Thr Asn Pro Pro Pro Asn Leu
 20 25 30
 Ala Gln Gln Leu Ala Lys Pro Thr Arg Ser Gly Gln Arg Leu Pro Gln
 35 40 45
 Asn Ser Ile Arg Gln Leu Gln Glu His Xaa Tyr Ala Val Thr Val Met
 50 55 60
 Val Val Asn Ile Leu Tyr Glu Asn Pro Asn Leu Leu Pro Val Lys Gly
 65 70 75 80
 Phe Gly Tyr Leu Ile Pro Gln Ser Val Pro Phe Glu His Asn Pro Glu

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<210> 33109
<211> 247
<212> PRT
<213> A.fumigatus
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Pro	Leu	Val	Asp	Phe	Ile	Leu	Gln	Leu	Val	Glu	Leu	Glu	Leu	Leu	Glu
1				5					10					15	
Asp	Val	Leu	Ile	Thr	Thr	Lys	Ser	Ser	Pro	Ala	Ala	Gln	Asn	Arg	Tyr
			20					25					30		
Ile	Tyr	Tyr	Pro	Asp	His	Leu	Val	Arg	Met	Pro	Gly	Arg	Asp	Pro	Gly
		35					40					45			
Arg	Ser	Leu	Phe	Ser	Glu	Leu	Tyr	Ser	Asn	Phe	Arg	Thr	Leu	Leu	Thr
	50					55					60				
Glu	Pro	Val	Phe	Asp	Lys	Leu	Val	Arg	Ser	Val	Val	Thr	Glu	Pro	Ala
65					70					75					80
Arg	Leu	Pro	Pro	Gly	Pro	Lys	Ser	Val	Asp	Ser	Asp	Glu	Ser	Val	Arg
				85					90					95	
Asp	Phe	Ile	Ser	Arg	Arg	Leu	Ala	Pro	Glu	Ile	Ala	Asp	Asn	Ile	Val
			100					105					110		
Ser	Ala	Val	Tyr	His	Gly	Ile	Tyr	Ala	Gly	Asp	Ile	Asp	Arg	Leu	Ser
		115					120					125			
Ala	Gln	Thr	Leu	Leu	Gly	Thr	Tyr	Arg	Asp	Leu	Glu	His	Asp	Asp	Arg
	130					135						140			
Arg	Val	Ile	Gly	Gly	Leu	Val	His	Ala	Ala	Thr	Ser	Asp	Ile	Thr	Tyr
145					150					155					160
Asn	Leu	Met	Asp	Asp	Trp	Leu	Ala	Leu	His	Ser	Leu	Ala	Ala	Thr	Lys
			165						170					175	
Gln	Lys	Ser	Tyr	Trp	Ser	Ser	Leu	Lys	Thr	Leu	Val	Arg	Asp	Ala	Ser
		180						185					190		
Val	Ile	Thr	Phe	Lys	Asn	Gly	Val	Gln	Gln	Leu	Thr	Asp	Ala	Leu	Ala
		195					200					205			

13127

Ala Thr Leu Arg Lys Ser Arg Lys Val Asp Leu Leu Thr Gly Thr Glu
 210 215 220
 Val Met Val Ile Ser Thr Asn Pro Ala Asn Ser Asp Leu Thr Val Ser
 225 230 235 240
 Val Thr Phe Leu Arg Glu Arg
 245

<210> 33110
 <211> 224
 <212> PRT
 <213> A.fumigatus

<400> 33110
 Met Ala Ser Thr Asn Ser Gly Ile Thr Thr Asp Ala Leu Thr Gly Glu
 1 5 10 15
 Arg Tyr Ile Pro Ser Ser Val Arg Pro Asp Gly Ser Lys Arg Arg Glu
 20 25 30
 Ile Lys Val Arg Pro Gly Tyr Arg Pro Pro Glu Asp Val Glu Leu Tyr
 35 40 45
 Lys Asn Arg Ala Ala Ala Ala Trp Arg Asn Arg Gly Ser Gly Gly Val
 50 55 60
 Pro Gly Ala Glu Gly Leu Ser Glu Ala Ser Glu Asn Lys Ala Asn Thr
 65 70 75 80
 Ala Ala Ser Asn Lys Asn Ala Lys Arg Arg Glu Ala Lys Lys Arg Ala
 85 90 95
 Lys Ala Ala Gln Glu Ser Glu Pro Thr Leu Thr Ser Thr Gln Ala Asn
 100 105 110
 Gly Gln Ser Val Arg Asp Leu Glu Asn Trp Arg Ser Gly Ala Ser Ala
 115 120 125
 Ala Glu Lys Lys Val Ser Thr Ala Glu Ala Gln Pro Lys Val Asp Pro
 130 135 140
 Glu Ala Glu Lys Glu Lys Lys Ala Arg Asn Leu Lys Lys Lys Leu Arg
 145 150 155 160
 Gln Ala Arg Asp Leu Arg Asp Lys Lys Asn Gln Gly Glu Ala Leu Leu
 165 170 175
 Pro Glu Gln Leu Glu Lys Val Ile Lys Ile Gln Glu Leu Ile Arg Gln
 180 185 190
 Leu Asp Ala Leu Gly Phe Asp Ala Asn Gly Asp Lys Lys Asp Ser Ser
 195 200 205
 Glu Glu Lys Glu Lys Glu Lys Glu Lys Glu Lys Glu Lys Glu Gly Ala
 210 215 220

<210> 33111
 <211> 193
 <212> PRT
 <213> A.fumigatus

<400> 33111
 Trp Arg His Glu Gln Leu Lys Pro Gly Asp Ala Cys Ala Glu His Glu
 1 5 10 15
 Pro Ser His Ile Gln Leu Pro Glu Leu Asn Ile Pro Gln Ile Gln Ala
 20 25 30
 Asp Leu Ile Ser Ile Pro Val Tyr Arg Pro Lys Met Arg Glu Thr Thr
 35 40 45
 Ala Leu Gly Ala Ala Ile Ala Ala Gly Leu Ala Val Gly Val Trp Arg
 50 55 60

13128

```

Asn Phe Ala Glu Leu Arg Asp Ile Asn Arg Ala Gly Gly Ala Val Phe
65          70          75          80
Glu Pro Lys Ile Ser Arg Glu Glu Ser Ala Lys Ser Phe Ala Arg Trp
      85          90          95
Glu Lys Ala Val Ala Met Cys Lys Gly Trp Ser Gly Asp Ala Pro Pro
      100        105        110
Pro Pro Val Gln Pro Ala Gln Lys Glu Ala Lys Lys Asn Ala Pro Glu
      115        120        125
Val Ile Thr Asn His Asn Ala Ile Asn Ala Thr Pro Pro Lys Phe Asn
      130        135        140
Gly Glu Leu Thr Thr Pro Lys Phe Pro Leu Ile Ser Ile Ser Gly Asp
145          150          155          160
Leu Asp Asn Ala Asp Glu Glu Glu Leu Tyr Leu Glu Leu Arg Lys Ile
      165        170        175
Glu Ile Leu Gln Arg Leu Lys Lys Leu Arg Lys Leu Lys Leu Ser Phe
      180        185        190
Tyr

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<210> 33112
 <211> 349
 <212> PRT
 <213> A.fumigatus

```

<400> 33112
Leu Ser Gly Ile Asp Ala Asp Gln Leu Ser Asn Arg Trp His Glu His
1          5          10          15
Asp Pro Phe Glu Leu Val Ser Ser Val Glu Lys Cys Ile Glu Glu Ala
      20        25        30
Val Lys Gln Phe Glu Ser Glu Gly Tyr Ser Arg Tyr Gly Ile Lys Ala
      35        40        45
Ile Gly Ile Thr Asn Gln Arg Glu Thr Thr Val Val Trp Asp His Asp
      50        55        60
Thr Gly Glu Pro Leu Tyr Asn Ala Ile Val Trp Thr Asp Thr Arg Pro
      65        70        75        80
Gln Ala Ile Val His Glu Leu Lys Gln Lys Arg Glu Ser Ser Gln Leu
      85        90        95
Gln Ala Ile Cys Gly Leu Pro Leu Thr Thr Tyr Ser Ser Ala Thr Lys
      100       105       110
Leu Leu Trp Met Ile Glu His Val Pro Lys Val Lys Asp Ala Tyr Glu
      115       120       125
Arg Gly Thr Leu Ala Phe Gly Thr Val Asp Ala Trp Leu Val Tyr Arg
      130       135       140
Leu Asn Gly Gly Ala Ser Ala Asn Val Phe Val Ser Asp Pro Thr Asn
      145       150       155       160
Ala Ser Arg Thr Met Phe Met Asn Leu Glu Thr Leu Gln Tyr Asp Asn
      165       170       175
Phe Leu Leu Asp Phe Phe Gly Ile Arg Lys Val His Leu Pro Lys Ile
      180       185       190
Val Pro Ser Ser Asp Ala Lys Ala Tyr Gly Ala Met Ala Ser Gly Ile
      195       200       205
Leu Ala Gly Val Pro Ile Met Gly Cys Leu Gly Asp Gln Ser Ser Ala
      210       215       220
Leu Val Gly Gln Lys Gly Phe Ser Pro Gly Met Ala Lys Asn Thr Tyr
      225       230       235       240
Gly Thr Gly Cys Phe Leu Leu Tyr Asn Val Gly Glu Lys Pro Val Ile

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λ	λ^2	λ^3	λ^4	λ^5	λ^6	λ^7	λ^8	λ^9	λ^{10}	λ^{11}	λ^{12}	λ^{13}	λ^{14}	λ^{15}	λ^{16}	λ^{17}	λ^{18}	λ^{19}	λ^{20}
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384	32768	65536	131072	262144	524288	1048576
3	9	27	81	243	729	2187	6561	19683	59049	177147	531441	1594323	4782969	14348907	43046721	129139065	387420585	1162261755	3486785265
4	16	64	256	1024	4096	16384	65536	262144	1048576	4194304	16777216	67108864	268435456	1073741824	4294967040	17179266048	68813926400	274528360192	1098016768000
5	25	125	625	3125	15625	78125	390625	1953125	9765625	48828125	244140625	1220703125	6103515625	30517578125	152587890625	762939453125	3814697265625	19073486328125	95367431640625
6	36	216	1296	7776	46656	279936	1679616	10077696	60466176	362793024	2176778112	13060668672	78364012032	470184072192	2821104433184	16926626600096	101559759600576	609358557603456	3656151345621760
7	49	343	2401	16807	117649	823543	5724253	39943521	277682569	1943887993	13607215951	95250511657	666753581601	4667275071209	32670925498463	228696478489241	1600875349424689	11206127445972821	78442892121809745
8	64	512	4096	32768	262144	2097152	16777216	134217728	1073741824	8589932032	68319456256	546555650048	4372445200384	34979561603072	279836492824576	2238691942596608	17909535540772864	143276284326182912	1146210274609463296
9	81	729	6561	59049	531441	4782969	43046721	387420585	3486785265	31381659365	282334934295	2541014408655	228696478489241	2058268306403165	18524414757628485	166719732819656365	1500477595376907285	13594298358392165565	124048685225529490095
10	100	1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000	1000000000000000	10000000000000000	100000000000000000	1000000000000000000	10000000000000000000	100000000000000000000

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<210> 33113
<211> 76
<212> PRT
<213> A.fumigatus
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<210> 33114
<211> 82
<212> PRT
<213> A.fumigatus
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<210> 33115
<211> 66
<212> PRT
<213> A.fumigatus
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13130

Leu Ser Ala Phe Phe Ala Thr Asp Leu Gly Leu Lys Asp Gly Ser Ser
 1 5 10 15
 Gly Thr Val Asp Val Ser Gln Phe Ser Lys Ile Ser Pro His Pro Tyr
 20 25 30
 Arg Gln Thr Ser Gly Tyr Ser Arg Thr Lys Cys Arg Gly Phe Pro His
 35 40 45
 Leu Gly Thr Val His Arg Asp Arg Asp Glu Ile Cys Leu Asp Leu Trp
 50 55 60
 Asp Ile
 65

<210> 33116

<211> 70

<212> PRT

<213> A.fumigatus

<400> 33116

Ile Ser Met Arg Leu Leu Cys Ala Pro Gln Ile Cys Gly Ser Gly Phe
 1 5 10 15
 Arg Gly Glu Ile Ala Gln Leu Arg Arg Ala Thr Gln Asp Leu Ala Val
 20 25 30
 Leu Val Gly Arg Ser Arg Ile Lys Leu Ser Asp Val Asn Tyr Gly Val
 35 40 45
 Leu Arg Arg Leu Thr Thr Tyr Leu Asp Leu Thr Ser Leu Leu Leu Ile
 50 55 60
 Asp Ala Gln Trp Ser His
 65 70

<210> 33117

<211> 139

<212> PRT

<213> A.fumigatus

<400> 33117

Leu Arg Ala His Gly Ile Ala Gly Val Tyr Arg Gly Leu Cys Ala Thr
 1 5 10 15
 Ile Leu Phe Arg Ser Phe Phe Phe Phe Trp Trp Gly Ser Tyr Asp Val
 20 25 30
 Leu Thr Arg Trp Met Lys Asn Asn Thr Ala Met Ser Ala Pro Val Ile
 35 40 45
 Asn Phe Trp Ala Gly Gly Ile Ser Ala Gln Ile Phe Trp Leu Thr Ser
 50 55 60
 Tyr Pro Ser Asp Val Val Lys Gln Arg Leu Met Thr Asp Pro Met Gly
 65 70 75 80
 Gly Ser Leu Gly Asp Gly Glu Arg Lys Phe Tyr Arg Trp Lys Asp Ala
 85 90 95
 Ala Arg Ala Val Tyr Leu Glu Arg Gly Trp Arg Gly Tyr Trp Arg Gly
 100 105 110
 Phe Val Pro Cys Phe Leu Arg Ala Phe Pro Ala Asn Ala Met Ala Leu
 115 120 125
 Val Ala Phe Glu Gly Val Met Arg Ser Leu Pro
 130 135

<210> 33118

<211> 114

<212> PRT

<213> A.fumigatus

<400> 33118

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Ser Gly Ser Asp Pro Trp Gly Ser Met Leu Gly Ser Leu Thr Leu Tyr
1          5          10          15
Arg Arg Leu Leu Leu Glu Asn Val Phe Ser Arg Pro Ala Ile Arg Ser
          20          25          30
Leu Thr Pro Phe Ala Ser Tyr Gln Pro Asp Pro Lys Thr Leu Pro Ser
          35          40          45
Phe Gly His Gly Ile Ala Gly Ile Leu Ala Gly Thr Thr Val Ser Phe
          50          55          60
Val Ala Ala Pro Val Glu His Ile Lys Ala Arg Leu Gln Ile Gln Tyr
65          70          75          80
Ala Ala Asp Lys Ser Lys Arg Met Tyr Ser Gly Pro Ile Asp Cys Leu
          85          90          95
Thr Lys Leu Val Gly His Trp Glu Val Ser Arg Val Leu Glu Ala Ile
          100          105          110
Val Gly

```

<210> 33119

<211> 83

<212> PRT

<213> A.fumigatus

<400> 33119

```

Phe Gly Gly Ser His Ala Asp Gly Met Gly Ala Cys Val Lys Glu Asp
1          5          10          15
Asp Lys Pro Phe Thr Val Arg Leu Ser Asp Glu Ser Phe Glu Thr Tyr
          20          25          30
Glu Ile Asp Pro Pro Pro Tyr Asp Leu Glu Val Thr Lys Lys Glu Leu
          35          40          45
Lys Gln Met Tyr Tyr Asp Met Val Val Thr Arg Tyr Gly Leu Arg Gly
          50          55          60
Glu Glu Phe Met Leu Leu Cys His Ser Tyr Leu Thr Phe Asp Gly Ser
65          70          75          80
Cys Phe Val

```

<210> 33120

<211> 170

<212> PRT

<213> A.fumigatus

<400> 33120

```

Phe Ile Asp Asn Lys Tyr Gly Met Gly Thr Ser Ala Ala Arg Ser Ser
1          5          10          15
Ala Leu Thr Asp Tyr Tyr Lys Arg Gly Gln Tyr Ile Pro Gly Ile Lys
          20          25          30
Val Asn Gly Met Asp Val Leu Ala Thr Lys Ala Ala Val Gln Tyr Ala
          35          40          45
Arg Glu Tyr Thr Ile Ala Gly Asn Gly Pro Leu Val Phe Glu Tyr Val
          50          55          60
Thr Tyr Arg Tyr Gly Gly His Ser Met Ser Asp Pro Gly Thr Thr Tyr
65          70          75          80
Arg Ser Arg Glu Glu Ile Gln Arg Met Arg Ser Thr Asn Asp Pro Ile

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<210> 33121
<211> 169
<212> PRT
<213> A.fumigatus
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<210> 33122
<211> 576
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (12), (54), (65)
<223> Identity of amino acid sequences at the above locations are unknown.
```

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<400> 33122
Leu Ala Phe Pro Leu Thr Arg Gln Gly Lys Phe Xaa Thr Asp Pro Ser
1          5          10          15
Thr Val Phe Leu Pro Lys Asp Thr Val Thr Gly Pro Ile Ser Val Ile
          20          25          30

```

Leu	Ser	Glu	Tyr	Ser	Asn	Lys	His	Ile	Ala	Asp	Val	Ala	His	Arg	Thr
	35						40					45			
Phe	Gly	Gly	Arg	Leu	Xaa	Pro	His	Phe	Thr	Thr	Thr	Pro	Pro	Pro	Arg
	50					55					60				
Xaa	Gln	Val	His	Gln	Leu	Pro	Ile	Pro	Ile	Glu	Ala	Ser	Gln	Arg	His
65					70					75					80
Met	Ser	Gln	Met	Glu	Gly	Asn	Val	Tyr	Met	Ala	Ala	Leu	Tyr	Pro	Gly
			85					90					95		
Met	Tyr	Ala	Ser	Ala	Leu	Ser	Val	Leu	Val	Glu	Val	Arg	Lys	Arg	Leu
		100					105						110		
Gly	Thr	Asn	Trp	Ile	Arg	Arg	Leu	Met	Ala	Gln	Gln	Asp	Gly	Pro	His
	115						120					125			
Val	Leu	Asp	Ala	Gly	Ala	Gly	Gly	Ala	Gly	Ile	Leu	Ala	Trp	Arg	Asp
	130					135					140				
Val	Leu	Arg	Ala	Glu	Trp	Glu	Ala	Met	Val	Pro	Asp	His	Pro	Glu	Thr
145					150					155					160
Asp	Pro	Ile	Pro	Leu	Gly	Arg	Ser	Thr	Val	Val	Thr	Ala	Ser	Glu	Ala
				165					170					175	
Leu	Arg	Asn	Arg	Ala	Ser	Val	Met	Val	His	Asn	Thr	Thr	Phe	Phe	Pro
			180					185					190		
Arg	Leu	Pro	Asp	Tyr	Ile	His	Val	Arg	Glu	Lys	Pro	Thr	Leu	Asp	Asp
	195						200					205			
Glu	Arg	Pro	Pro	Pro	Pro	Arg	Lys	Gln	Tyr	Asp	Val	Ile	Ile	Ala	Pro
	210					215					220				
His	Ser	Leu	Leu	Gly	Leu	Glu	Glu	Glu	Tyr	Met	Arg	Lys	Glu	His	Val
225					230					235					240
Glu	Asn	Leu	Trp	Thr	Leu	Leu	Asn	Pro	His	Gly	Gly	Val	Leu	Ile	Leu
			245						250					255	
Leu	Glu	Lys	Gly	His	Gln	Lys	Gly	Phe	Glu	Ala	Ile	Ala	Gly	Ala	Arg
			260					265					270		
Glu	Met	Leu	Leu	Lys	Ser	Tyr	Ile	Ser	Ser	Pro	Gly	Tyr	Thr	Gln	Tyr
	275						280					285			
Asp	Glu	Leu	Thr	Glu	Ser	Pro	Asn	Glu	Asn	Lys	His	Ile	Asp	Lys	Glu
	290					295					300				
Glu	Gly	Met	Ile	Ile	Ala	Pro	Cys	Thr	Asn	His	Ala	Lys	Cys	Pro	Met
305					310					315					320
Tyr	Thr	Val	Ala	Gly	His	Ala	Lys	Gly	Arg	Arg	Asp	Phe	Cys	His	Phe
				325					330					335	
Glu	Gln	Arg	Tyr	Ile	Arg	Pro	Ala	Phe	Leu	Gln	Arg	Ile	Leu	Gly	Ala
			340					345					350		
Lys	Asp	Arg	Asn	His	Glu	Asp	Val	Lys	Phe	Ser	Tyr	Leu	Ala	Val	Gln
	355						360					365			
Arg	Gly	Val	Asp	Leu	Arg	Lys	Glu	Met	Asn	Ile	Val	Gln	Gly	Pro	Glu
	370					375					380				
Ala	Ala	Glu	Ala	Ala	Phe	Ala	Gly	Tyr	Glu	His	Leu	His	Asp	Met	Glu
385					390					395					400
Ser	Glu	Asp	Ala	Gln	Val	Ser	Asp	Asp	Ala	Ala	Thr	Ser	Glu	Pro	Ser
				405					410					415	
Ala	Ala	Gln	Asp	Gly	Arg	Asp	Phe	His	Thr	Leu	Ser	Leu	Pro	Arg	Ala
			420					425					430		
Val	Tyr	Ala	Pro	Met	Lys	Arg	Arg	Gly	His	Val	Ile	Phe	Asp	Phe	Cys
	435						440					445			
Thr	Pro	Ala	Gly	Lys	Ile	Glu	Arg	Trp	Thr	Val	Pro	Arg	Ser	Tyr	Ser
	450					455					460				
Lys	Gln	Ala	Tyr	Arg	Asp	Ala	Arg	Lys	Ala	Arg	Trp	Gly	Asp	Leu	Trp
465					470					475					480

13134

Ala	Leu	Gly	Ala	Lys	Thr	Arg	Val	Pro	Arg	Ser	Leu	Arg	Leu	Gly	Ala
				485					490					495	
Lys	His	Gly	Glu	Gly	Lys	Lys	Glu	Arg	Leu	Glu	Lys	Arg	Ala	Ala	Ser
			500					505					510		
Lys	Ala	Ala	Leu	Gly	Glu	Ser	Glu	Asp	Gly	Gly	Leu	Glu	Ser	Ala	Pro
			515				520					525			
Ser	Asp	Asn	Trp	Asp	Val	Phe	Thr	Thr	Pro	Val	Arg	Lys	Lys	Gly	Gln
			530			535					540				
Thr	Ile	Pro	Ser	Trp	Lys	Lys	His	Gln	Asp	Lys	Lys	Lys	Ile	Arg	Gln
545					550				555						560
Ala	Ser	Lys	Lys	Gln	Ser	Thr	Val	Lys	Leu	Thr	Asp	His	Asp	Leu	Asp
				565					570					575	

<210> 33123

<211> 94

<212> PRT

<213> A.fumigatus

<400> 33123

Lys	Arg	Pro	Asp	Ile	Gly	Leu	Pro	Gly	Lys	Pro	Arg	Cys	Phe	Pro	Leu
1				5					10					15	
Leu	Leu	Val	Ala	Pro	Phe	Ser	Ser	Ser	Ile	Asn	Ser	Leu	Asn	Leu	Pro
			20					25					30		
Gln	Pro	Glu	Val	Ser	Phe	Lys	Leu	His	Asn	Lys	Ser	Gln	Cys	Leu	Ser
			35				40					45			
Ser	Glu	Arg	Ser	Ser	Leu	Pro	Leu	Trp	Val	Cys	Tyr	Lys	Thr	Pro	Thr
			50			55					60				
Thr	Leu	Val	Arg	Trp	Arg	Ser	Glu	Tyr	Val	Thr	Asn	His	Ser	Ile	Thr
65				70					75						80
Ala	Lys	Pro	Met	Ala	Pro	Phe	Phe	Ala	Ala	Gly	Met	Pro	Ser		
				85					90						

<210> 33124

<211> 80

<212> PRT

<213> A.fumigatus

<400> 33124

Gly	Thr	Ala	Gly	Lys	Lys	Thr	Ala	Thr	His	Leu	His	Pro	Asp	Asn	Tyr
1				5					10					15	
Thr	Ser	Asn	Gly	Tyr	Phe	Asn	Met	Ala	Ala	Ser	Leu	Gln	Ala	Ser	Val
			20					25					30		
Asp	Ser	Leu	Gln	Ser	Ser	Leu	Gln	Thr	Leu	Asp	Ser	Ser	Ile	Ser	Thr
			35				40					45			
Leu	Asp	Ser	Ala	Val	Ser	Asp	Phe	Pro	Arg	Leu	Cys	Lys	Val	Leu	Gln
	50				55						60				
Thr	Thr	Arg	Val	Arg	Asp	Met	Thr	Val	Arg	Gln	Ala	Tyr	His	Phe	Leu
65				70					75						80

<210> 33125

<211> 80

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (54), (67)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33125

Pro	Pro	Ser	Pro	Thr	Thr	Lys	Glu	Asp	Asn	His	Pro	Asn	Tyr	Thr	Tyr
1				5					10					15	
Gln	Ile	Ile	Met	Tyr	Leu	Arg	Ala	Val	His	Ala	Glu	Thr	His	Ile	Pro
			20					25					30		
Leu	Leu	Gln	Gln	Phe	Ile	Arg	Asp	Asn	Pro	Leu	Gly	Ile	Leu	Thr	Thr
		35					40					45			
Ala	Ile	Lys	Ser	Pro	Xaa	Tyr	Pro	Leu	Leu	Gln	Ser	Ser	His	Val	Pro
	50					55					60				
Phe	Val	Xaa	Asp	Ile	Pro	Thr	Cys	Gln	Arg	Val	Gly	Lys	Ser	Gly	Lys
65					70				75						80

<210> 33126

<211> 200

<212> PRT

<213> A.fumigatus

<400> 33126

His	Thr	Thr	Met	Asp	Thr	Thr	Lys	Ser	Leu	Leu	Ser	Thr	Leu	Ile	Ala
1			5						10					15	
Ile	Met	Ile	Pro	Leu	Ser	Leu	Gly	Ser	Val	Ser	Ser	Pro	Asn	Leu	Leu
			20					25					30		
Pro	Thr	Pro	Pro	Met	Gly	Phe	Asn	Asn	Trp	Ala	Arg	Phe	Met	Cys	Asp
		35					40					45			
Leu	Asn	Glu	Thr	Leu	Phe	Leu	Glu	Thr	Ala	Ser	Ala	Met	Ile	Ser	Thr
	50					55					60				
Gly	Leu	Leu	Glu	Ala	Gly	Tyr	Asn	Arg	Val	Asn	Leu	Asp	Asp	Cys	Trp
65					70					75					80
Met	Ala	Tyr	Asp	Arg	Ala	Ala	Asp	Ser	Ser	Leu	Gln	Trp	Asn	Thr	Thr
			85						90					95	
Lys	Phe	Pro	His	Gly	Ile	Pro	Trp	Leu	Ala	Arg	His	Leu	Lys	Ala	Gln
			100					105						110	
Gly	Phe	His	Val	Gly	Ile	Tyr	Glu	Asp	Ala	Gly	Asp	Leu	Thr	Cys	Gly
		115					120					125			
Gly	Tyr	Pro	Gly	Ser	Phe	Gly	His	Gln	Ala	Leu	Asp	Ala	Gln	Thr	Phe
	130					135					140				
Ala	Thr	Trp	Gly	Ile	Asp	Tyr	Leu	Lys	Leu	Asp	Gly	Cys	Asn	Val	Phe
145					150					155					160
Pro	Glu	His	Ser	Arg	Pro	Leu	Glu	Glu	Arg	Val	Gln	Ser	Pro	Val	Arg
				165					170					175	
Thr	Leu	Ala	Gln	His	Pro	Lys	Ala	Asp	Ala	Pro	Pro	Val	Tyr	Phe	Leu
			180					185						190	
Glu	Ser	Ala	Pro	Gly	Asp	Phe	Ala								
		195					200								

<210> 33127

<211> 107

<212> PRT

<213> A.fumigatus

<400> 33127

Ile	Tyr	Thr	Tyr	Val	His	Thr	Pro	Trp	Thr	Arg	Ala	Leu	Ala	Lys	Cys
1				5					10					15	

13136

```

Asn Tyr Leu Gly Lys Pro Ala Phe Asn Asp Glu Tyr Thr Tyr Gln Val
      20              25              30
Ser Ser Arg His Leu Ile Leu Ala Ser Pro Phe Phe Arg Ala Ala Leu
      35              40              45
Thr Lys Gly Trp Lys Glu Thr His Thr Leu Gly Thr His Gly Ser Val
      50              55              60
Ser Phe Thr Val Tyr Asp Trp Asp Asp Gln Ala Leu Leu Thr Phe Leu
      65              70              75              80
Asn Ile Ile His Ala Thr Thr Pro Arg Ser Ala Met Glu Ser Arg Val
      85              90              95
Arg Ala Ile Cys Glu Asp His Leu His Arg Glu
      100              105

```

<210> 33128

<211> 72

<212> PRT

<213> A.fumigatus

<400> 33128

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Pro Arg Ser Val Ser Leu Ser Glu Ser Ser Tyr His Thr His Thr Ser
1      5      10      15
Met Met Pro Leu Ser Gln Asp Ser His Pro Ser Thr Lys Ala Leu His
      20      25      30
Ala Asp Gly Arg Leu Asn Leu Val Thr Asp Val Ala Pro Pro Ile His
      35      40      45
Leu Ser Thr Thr Phe Arg Tyr Pro Asn Asp Pro Asp Gln Leu Ile Pro
      50      55      60
Ser Glu Asp Pro Ile Val Ser Leu
      65      70

```

<210> 33129

<211> 345

<212> PRT

<213> A.fumigatus

<400> 33129

```

His Pro Lys Ala Glu Phe Asp Gly Lys Asn Tyr Val Tyr Ser Arg Glu
1      5      10      15
Phe Ala Pro Asn Ala Thr Arg Phe Glu Ala Ile Leu Ser Thr Leu Leu
      20      25      30
Gly Ser His Ala Val Ser Tyr Ala Thr Gly Leu Ala Ala Leu His Ala
      35      40      45
Ala Leu Val Leu Leu Asn Pro Arg Arg Ile Ser Val Gly Glu Gly Tyr
      50      55      60
His Gly Ser His Glu Val Ile Gly Val Leu Thr Arg Leu Thr Gly Leu
      65      70      75      80
Lys Lys Leu Pro Leu Asp Cys Pro Ala Glu Asp Leu Gln Glu Gly Asp
      85      90      95
Val Ile Leu Leu Glu Thr Pro Val Asn Pro Leu Gly Thr Ala Phe Ser
      100      105      110
Ile Glu Ala Tyr Ala Gln Lys Ala His Ser Arg Gly Ala Tyr Leu Ile
      115      120      125
Val Asp Ser Thr Phe Ala Pro Pro Gly Leu Gln Asp Pro Phe Leu Trp
      130      135      140
Gly Ala Asp Ile Val Leu His Ser Gly Ser Lys Tyr Phe Gly Gly His
      145      150      155      160

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Ser Asp Met Leu Cys Gly Val Leu Gly Val Lys Arg Ala Glu Trp His
 165 170 175
 Arg Gln Leu Leu Glu Asp Arg Ala Ala Leu Gly His Val Met Gly Asn
 180 185 190
 Leu Glu Ser Trp Leu Gly Val Arg Ser Leu Arg Thr Leu Glu Val Arg
 195 200 205
 Val Gln Arg Ala Ser Gln Asn Ser Ala Lys Leu Ile Ser Trp Leu Asn
 210 215 220
 Asp Ala Leu Thr Ala Ala Ser Pro Thr Pro Gly Ser Glu Glu Glu Ile
 225 230 235 240
 Val Gln Lys Val Leu Val Lys Ile Tyr His Ala Ser Leu Gln Asp Glu
 245 250 255
 Glu Trp Leu Lys Arg Gln Met Pro Asn Gly Phe Gly Pro Val Phe Ala
 260 265 270
 Ile Val Met Lys Asp Glu Arg Leu Ala Lys Thr Leu Pro Ser Lys Leu
 275 280 285
 Ser Leu Phe Gln His Ala Thr Ser Leu Gly Gly Val Glu Ser Leu Ile
 290 295 300
 Glu Trp Arg Ala Leu Ser Asp Ser Arg Val Asp Arg Lys Leu Leu Arg
 305 310 315 320
 Ile Ser Val Gly Leu Glu Asp Trp Gln Asp Leu Lys Met Asp Leu Leu
 325 330 335
 Ser Ala Phe Lys Ser Leu Leu Glu Val
 340 345

<210> 33130

<211> 209

<212> PRT

<213> A.fumigatus

<400> 33130

Arg Gly Tyr Thr Asp Ser Arg Leu Pro Gly Asp Thr Ser Thr Thr Asp
 1 5 10 15
 Gly Ile Arg Gly Ile Ala Ala Glu Leu Thr Lys Ala Glu Ser Lys Gly
 20 25 30
 Ile Asn Ile Leu Ile Asn Ser Ala Ser Val Thr Ser Glu Pro Arg Ala
 35 40 45
 Lys Ser Thr Ser Ser Asp Thr Asp Phe Thr Asp Pro Asp Ala Val Ser
 50 55 60
 Arg Trp Met Thr Cys Asp Gly Ala Asp Ala Trp Arg Ile Ala Tyr Ala
 65 70 75 80
 Gly Asn Val Trp Ser His His Phe Leu Thr Ala Ala Leu Leu Pro Leu
 85 90 95
 Leu Val Lys Gly Ala Lys Ala Ala Pro Gly His Ser Ser Val Val Leu
 100 105 110
 Asn Val Ala Ser Val Ala Gly Leu Thr Lys Thr His Ser Gln Gly Gln
 115 120 125
 Phe Ala Tyr Ser Ser Ser Lys Ala Ala Leu Ile His Leu Thr Arg Glu
 130 135 140
 Trp Ala His Thr Phe Leu Pro Leu Gly Val Arg Val Ser Cys Ile Ala
 145 150 155 160
 Pro Ser Val Phe Pro Asn Glu Ile Ser Val Gly Arg Phe Asp Glu Asp
 165 170 175
 Arg Arg Ser Thr Gln Glu Glu Glu Leu Trp Arg Lys Ile Pro Ala Gly
 180 185 190
 Glu Ser Cys Phe Ile Ala Val Gly Gly Cys Ala Leu Arg Thr Gly Val

195 200 205
 Ser

<210> 33131
 <211> 164
 <212> PRT
 <213> A.fumigatus

<400> 33131
 Ile Arg Ser Glu Met Asp Thr Ala Pro Arg Tyr Asn Phe Lys Asp Ile
 1 5 10 15
 Asn Val His Asp Leu Glu Ala Ala Thr Leu Phe Glu Val Arg Gly Tyr
 20 25 30
 Val Ala Val Val Thr Gly Ala Gly Asn Gly Val Gly Leu Met Ala Ala
 35 40 45
 Gln Thr Leu Ala Ala Asn Gly Ala Arg Val Tyr Ile Ile Gly Thr Arg
 50 55 60
 Glu Glu Ile Leu Asp Thr Ile Gly Glu Lys Tyr Ser Phe Lys Gly Gln
 65 70 75 80
 Ile Thr Pro Cys Val Leu Ser His Ser Ile Pro Ser Ser Thr Ala Pro
 85 90 95
 Thr Asp Glu Gly Ile Leu Thr Pro Asp Ser Pro Glu Ile Leu Pro Leu
 100 105 110
 Gln Thr Glu Phe Val Ala Ser Gln Gln Asn Ser Pro Lys Pro Asn Gln
 115 120 125
 Lys Gly Ser Thr Phe Ser Ser Thr Ala Gln Ala Leu Pro Ala Ser Pro
 130 135 140
 Ala Arg Lys Ala His Pro Pro Thr Pro Thr Ser Gln Thr Gln Thr Pro
 145 150 155 160
 Ser Arg Asp Gly

<210> 33132
 <211> 213
 <212> PRT
 <213> A.fumigatus

<400> 33132
 Tyr Phe Thr Leu Asp Leu Ser Phe Leu Phe Pro Cys Ser Val Thr His
 1 5 10 15
 Asn Arg Leu Ala Ser Pro Gly Asp Tyr Val Asp Arg Gly Tyr Tyr Ser
 20 25 30
 Val Glu Thr Val Thr Leu Leu Val Cys Leu Lys Ile Arg Tyr Pro Gln
 35 40 45
 Arg Ile Thr Ile Leu Arg Gly Asn His Glu Ser Arg Gln Ile Thr Gln
 50 55 60
 Val Tyr Gly Phe Tyr Asp Glu Cys Leu Arg Lys Tyr Gly Asn Ala Asn
 65 70 75 80
 Val Trp Lys Tyr Phe Thr Asp Leu Phe Asp Tyr Leu Pro Leu Thr Ala
 85 90 95
 Leu Ile Glu Asn Gln Ile Phe Cys Leu His Gly Gly Leu Ser Pro Ser
 100 105 110
 Ile Asp Thr Leu Asp Asn Ile Arg Ser Leu Asp Arg Ile Gln Glu Val
 115 120 125
 Pro His Glu Gly Pro Met Cys Asp Leu Leu Trp Ser Asp Pro Asp Asp

13139

130		135		140																
Arg	Cys	Gly	Trp	Gly	Ile	Ser	Pro	Arg	Gly	Ala	Gly	Tyr	Thr	Phe	Gly					
145					150					155					160					
Gln	Asp	Ile	Ser	Glu	Ala	Phe	Asn	His	Asn	Asn	Gly	Leu	Thr	Leu	Val					
				165					170						175					
Ala	Arg	Ala	His	Gln	Leu	Val	Met	Glu	Gly	Tyr	Asn	Trp	Ser	Gln	Asp					
			180					185					190							
Arg	Asn	Val	Val	Thr	Ile	Phe	Ser	Gly	Met	Ala	Pro	Leu	Pro	Ile	Leu					
		195					200					205								
Ile	Cys	Thr	His	His																
210																				

<210> 33133

<211> 109

<212> PRT

<213> A.fumigatus

<400> 33133

Pro	Leu	Leu	His	Glu	His	Ile	Asn	Trp	Leu	Trp	Arg	Ala	Thr	Ile	Gly					
1			5						10					15						
Arg	Arg	Ile	Glu	Met	Trp	Ser	Pro	Phe	Phe	Arg	Val	Trp	Pro	Leu	Phe					
		20						25				30								
Pro	Phe	Leu	Phe	Val	Pro	Thr	Thr	Asn	Met	Ser	Phe	Ser	Ala	Pro	Asn					
		35					40				45									
Tyr	Cys	Tyr	Arg	Cys	Gly	Asn	Gln	Ala	Ala	Ile	Met	Glu	Ile	Asp	Glu					
	50					55					60									
His	Leu	Lys	Tyr	Thr	Leu	Tyr	Val	Pro	Leu	Lys	Ala	Asn	Val	Arg	Pro					
65					70				75					80						
Trp	Phe	Ile	Arg	Thr	Asn	Cys	Phe	Ser	Lys	Leu	Thr	Ile	Arg	Ser	Leu					
			85					90					95							
Pro	Thr	Arg	Gly	Arg	Thr	Asp	Gly	Leu	Glu	Thr	Tyr	Thr								
			100				105													

<210> 33134

<211> 159

<212> PRT

<213> A.fumigatus

<400> 33134

Val	Lys	Asp	Leu	Arg	Gly	Phe	Val	Lys	Asn	Asn	Phe	Lys	Met	Gln	Leu					
1			5					10					15							
Asp	Phe	Ser	Thr	Arg	Arg	Pro	Gln	Val	Ser	Trp	Asn	Asp	Asp	Lys	Arg					
		20						25				30								
Val	Phe	Leu	Cys	Cys	Leu	Tyr	Lys	Phe	Phe	Glu	Arg	Asp	Gly	Thr	Ala					
		35					40				45									
Phe	Glu	Lys	Ile	Phe	Asn	Ala	Arg	Tyr	Lys	Gly	Asp	Leu	Glu	Asp	Ser					
	50				55					60										
Gly	Phe	Ala	Asp	Gly	Arg	Thr	Ser	Ser	Lys	Thr	Leu	Asn	Thr	Gln	Trp					
65				70					75					80						
Val	Asp	Met	Lys	Arg	His	Gly	Asp	Pro	Ile	Trp	Gly	Arg	Val	His	Lys					
			85					90					95							
Ser	Pro	Leu	Asn	Gln	Asp	Asp	Trp	Leu	Pro	Ile	Lys	Asn	Ile	Ile	Ile					
		100					105					110								
Asp	Val	Ala	Gln	Ser	Leu	Gly	Val	Pro	Leu	Ala	Glu	Lys	Glu	Ile	Asp					
		115					120					125								
Asp	Ile	Asp	Thr	Ser	Asn	Tyr	Arg	Ser	Arg	Ala	Ala	Lys	Ser	Gly	Arg					

13140

130		135		140
Thr Ile Thr Ser Asp	Pro Val Val Pro Thr Ser	Ser Ser Val Ser		
145	150	155		

<210> 33135
 <211> 250
 <212> PRT
 <213> A.fumigatus

<400> 33135
 Ala Leu Cys Glu Ala Ile Thr Phe Arg Arg Phe Tyr Ile Asp Asp Arg
 1 5 10 15
 Thr Pro Thr Arg Lys Ala Ser Ile Leu Gly Ser Gly Thr Ser Pro Ala
 20 25 30
 Tyr Leu Leu Thr Leu Arg Ser Ala Asn Ser Phe Leu Thr Lys Phe Pro
 35 40 45
 Trp Lys Asn Ser Met Val Val Leu Asn His Val Ser Ile Ala Ser His
 50 55 60
 Pro Ser Pro Phe Ile Ser Thr Phe Gln Ser Ile Leu Ala Pro Ile His
 65 70 75 80
 Arg Ala Leu Trp Gly Lys Glu Gly Ala Met Val Ser Ile Ile Asp Thr
 85 90 95
 Arg Lys Leu Thr Gly Pro Val Tyr Phe Ala Lys Ser Leu Val Gln Gln
 100 105 110
 Asn Lys Ile Arg Ile Arg Gly Tyr Asn Gly Val Gly Glu Tyr Leu Ile
 115 120 125
 Trp Gly Glu Ile Gln Thr Pro Ala Ile Ile Cys Ser Phe Lys Ile Thr
 130 135 140
 Thr Leu Ile Gln Ile Ala His Lys Asn Glu Asp Ile Gly Arg Ile Leu
 145 150 155 160
 Gln Leu Asp Lys Ile Ala Ser Cys Lys Arg Val Arg Gly Lys Leu Arg
 165 170 175
 Thr Val Leu Ser Asn Glu Thr Asp Ser Met Asn Leu Asp His Ala Ser
 180 185 190
 Gly Val Ser Leu Gly Lys Leu Leu Arg Leu Ile Asn Val Pro Gln Ala
 195 200 205
 Tyr Tyr Gln Met Val Gly Glu Gly Ile Leu Lys Ser Trp Gln Leu Gln
 210 215 220
 Lys His Gly Asp Trp Gln Glu Phe Leu Gln Gly Leu Glu Val Gly Phe
 225 230 235 240
 Phe Thr Trp Leu Arg Gln Thr Thr Leu Asn
 245 250

<210> 33136
 <211> 177
 <212> PRT
 <213> A.fumigatus

<400> 33136
 Tyr Pro Asp Asn Leu Asp Ala Arg Pro Thr Gly Thr Ala Leu Ala Lys
 1 5 10 15
 Glu Ile Gly Arg Asn His Leu Val Gln His Gly Thr Val Val His Glu
 20 25 30
 Glu Glu Glu Glu Arg Phe Glu Glu Ile Glu Glu Asp Lys Asp Glu Asp
 35 40 45
 Glu Asp Glu Asp Glu Asp Glu Glu Glu Lys Glu Glu Glu Asp Asp Asp

13141

50		55		60	
Ser Asp Asp Phe Gln Ser Val Ile Gly Thr Pro Cys Pro Val Arg Leu					
65		70		75	80
Ala His Thr Val Ser Ser Ile Pro Pro Pro Asp Pro Arg Pro Val Asn					
	85		90		95
Arg Ile Glu Leu Tyr Asn Pro Ala Thr Arg Asn Trp Ser Leu Ala Glu					
	100		105		110
Glu Ser Ser Thr Pro Thr Glu Ile Glu Ala Phe Ser Arg Glu Phe Ser					
	115		120		125
Val Ile Phe Leu Asp Asp Phe Glu Glu Glu Ile Glu Glu Leu Gly Asp					
	130		135		140
Thr Ile Met Gly Lys Asp Ile Ser Asp Leu Ser Thr Pro Glu His Pro					
145		150		155	160
Pro Lys Asp Gln Phe Ala Ser Asp Arg Glu Arg Ile Lys Arg Phe Leu					
	165		170		175

Lys

<210> 33137

<211> 121

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (41)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33137

Phe Glu Thr Asp Lys Lys Cys Pro Phe Thr Gly Met Val Ser Ile Arg		
1	5	10
Gly Arg Ile Leu Thr Gly Arg Val Val Ser Thr Lys Met His Arg Thr		
	20	25
Ile Ile Ile Arg Arg Glu Tyr Leu Xaa Tyr Val Pro Lys Tyr Asn Arg		
	35	40
Tyr Glu Lys Arg His Lys Asn Leu Ala Ala His Val Ser Pro Ala Phe		
	50	55
Arg Val Glu Glu Gly Asp Trp Val Thr Val Gly Gln Cys Arg Pro Leu		
65	70	75
Ser Lys Thr Val Cys Gly Asn Pro Pro Arg Asn Gly Ser Ala Arg Tyr		
	85	90
Phe Arg Gln Arg Leu Met Leu Lys Trp Lys Leu Ser Trp Ser Gly Arg		
	100	105
Gln Ser Thr Leu Ser Ile Asn Pro Val		
	115	120

<210> 33138

<211> 86

<212> PRT

<213> A.fumigatus

<400> 33138

Ser Asn Trp Thr Arg Arg Ala Asn Asp Arg Leu Lys Val Val Thr Ile		
1	5	10
Ile Ile Phe Leu Phe Leu Phe Leu Phe Val Phe Val Phe Val Phe Val		
	20	25
		30

13142

Phe	Ile	Phe	Val	Phe	Leu	Tyr	Leu	Phe	Glu	Ser	Leu	Phe	Leu	Phe	Phe
	35						40					45			
Met	His	Asn	Gly	Ala	Met	Leu	Asn	Lys	Met	Ile	Ser	Ser	Asn	Phe	Leu
	50					55					60				
Ser	Gln	Ser	Cys	Ser	Cys	Arg	Pro	Cys	Ile	Gln	Val	Val	Trp	Val	Ser
65					70					75					80
Val	Glu	Gly	Cys	Leu	Thr										
				85											

<210> 33139
 <211> 562
 <212> PRT
 <213> A.fumigatus

<400> 33139

Val	Leu	Phe	Tyr	Ile	Asp	Lys	Pro	Ile	Val	Arg	Arg	Lys	Glu	Val	Thr
1				5					10					15	
Thr	Trp	Ala	Pro	Glu	Leu	Ala	Arg	His	Gly	Arg	Gly	Ser	Asp	Ala	Arg
			20					25					30		
Ser	Ile	Gln	Thr	Leu	Gly	Val	Pro	Met	His	Arg	Asp	Pro	Arg	Asn	Lys
	35						40				45				
Asn	Thr	Cys	Val	Glu	Thr	Thr	Ser	Met	Ala	Thr	Pro	Ser	Ser	Asp	Val
	50					55					60				
Pro	Val	Pro	His	Leu	Ala	Ser	Arg	Gln	Thr	Arg	Arg	Asp	Arg	Glu	Asp
65				70						75				80	
Pro	Asp	Pro	Ala	Ala	Pro	Gly	Val	Asn	Asp	Ser	Leu	Ala	Ser	Glu	Asn
				85					90					95	
Leu	Leu	Arg	Asn	Leu	Gln	Arg	Ser	Glu	Ser	Ser	Ala	Val	Ser	Ala	Asn
			100					105					110		
Ser	Ser	Val	Pro	Ser	Asn	Gly	Gly	Arg	Trp	Gly	Asn	Ile	Phe	Ser	Gly
	115					120					125				
Leu	Trp	Ile	Ser	Arg	His	Glu	Ser	Ser	Thr	Ala	Glu	Gly	Asn	Pro	Thr
	130					135					140				
Val	Pro	Val	Ala	Glu	Pro	Arg	Lys	Arg	Ser	Val	Ser	Ala	Tyr	Val	Gly
145					150					155					160
Pro	Ser	Lys	Arg	Ser	Pro	Pro	Thr	Leu	Ser	Gln	Met	Val	Lys	Glu	Val
				165					170					175	
Ser	Gly	Glu	Thr	Pro	Gly	Glu	Val	Ser	Glu	Thr	Thr	Thr	Ser	Gly	Thr
			180					185					190		
Ile	Ser	Ile	Pro	Arg	Ser	Ser	Ser	Gln	Gln	Gly	Pro	Glu	Glu	Asn	Thr
	195					200						205			
Pro	Glu	Pro	Ser	Ser	Val	Pro	Glu	Gln	Asn	Arg	Glu	Ser	Ser	Leu	Lys
	210					215					220				
Leu	Ser	Val	Arg	Gly	Asp	Asp	Gly	Ile	Val	Asp	Val	Glu	Leu	Pro	Leu
225					230					235					240
Pro	Gly	Phe	Leu	Ser	Leu	Ser	Ser	Ser	Gly	Asp	Ser	Thr	Ile	Ala	Ser
				245					250					255	
Pro	Lys	Lys	Thr	Arg	Thr	Ser	Val	Thr	Ser	Val	Asp	Ala	Leu	Ala	Ser
			260					265					270		
Thr	His	Ser	Ser	Asn	Ser	Gly	Phe	His	Cys	Gly	Gly	Pro	Arg	Asp	Asn
	275						280					285			
Asp	Gly	Pro	Ser	Val	Asn	Val	Ala	Gly	Trp	Leu	Lys	Asn	Phe	His	Glu
	290					295					300				
Asp	Phe	Leu	Leu	Gln	Gly	Val	Arg	Pro	Ser	Ala	Ser	Val	Glu	Ala	Asp
305					310					315					320
Ile	Lys	Arg	Ala	Met	Gln	Ala	Glu	Pro	Thr	Pro	Ser	Ser	Ala	Phe	Ser

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          325          330          335
Phe Glu Pro Glu Gly Gln Gly Lys Trp Val Asp Val Ala Thr Thr Leu
          340          345          350
Ile Ala Asp Thr Arg Asn Phe Thr Val Lys Arg Leu Arg Leu Arg Arg
          355          360          365
Lys Val Val Gly Asn Gly Ser Cys Arg Ser Pro Ser Thr Pro Gly Ala
          370          375          380
Ala Ser Gln Pro Gly Thr Pro Arg His Leu Phe Gly His Pro Thr Ser
385          390          395          400
Ala Ser Gln Leu Thr Ser Phe Phe Ser Asn Ala Pro Ala Ser Ser Gly
          405          410          415
Ala Ser Ala Asn Ser Val Ala Glu Ala Phe Asp Ala Pro Glu Tyr Glu
          420          425          430
Glu Arg Phe Val Glu Glu Pro Val Met Asp Leu Asp Gly Thr Leu Val
          435          440          445
Asp Ala Leu Glu Arg Val Leu Ala Gln Ser Gly Gln Ser Ser Leu Ala
          450          455          460
His Ser Arg Ala Gln Ser Pro Ser Arg Gly Arg Arg Gly Glu Asp Lys
465          470          475          480
Asn Thr Ser Asp Thr Val Ser Arg Asp Glu Val Pro Ser Ile Glu Val
          485          490          495
Pro Arg Ala Glu Cys Arg Lys Met Val Leu Gly Ala Leu Glu Glu Val
          500          505          510
Val Arg Ser Val Thr Ala Glu His Cys Arg Glu Asp Val Asp Gly Glu
          515          520          525
Val Gly Leu Ala Asp Arg Glu Arg Arg Arg Ser Leu Ala Gly Ala Asp
          530          535          540
Asn Thr Leu Arg Glu Gly Ile Arg Lys Trp Leu Leu Glu Val Glu Glu
545          550          555          560
Ala Trp

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<210> 33140

<211> 851

<212> PRT

<213> A.fumigatus

<400> 33140

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Pro Ser Glu Cys Met Ala Asp Lys Met Asp Val Asp Asn Pro Asn Thr
1          5          10          15
Pro Thr Ser Arg Asp Pro Arg Leu Val Ser Arg Asn Arg Pro Ala Pro
          20          25          30
Ala Arg Thr Ala Ser Leu Asp Ala Gly Ile Trp Gly Ser Pro Asn Gly
          35          40          45
Tyr Lys Leu Glu Ala Arg Ser Pro Asn Asn Pro Pro Pro Ile Asp Arg
          50          55          60
Gln Asp Glu Ala Pro Gly Asp Gln Phe Ile Arg Thr Leu Ser Glu Leu
65          70          75          80
Ile Lys Ala Ala Val Asp Thr Ala Ala Arg Glu Val Glu Lys Asp Lys
          85          90          95
Leu Leu Lys Lys Lys Asp Met Thr Glu Gly Leu Leu Arg Lys Ala Lys
          100          105          110
Ala Ala Pro Asn Phe Pro Ser Thr Thr Ala Phe Phe Gln Gln Ala Arg
          115          120          125
Lys Asp Glu Asp Ser Glu Leu Thr Arg Met Asp Glu Thr Ile Ser Arg
130          135          140

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Thr Gln Ala His Tyr Arg Gln Leu Glu Asn Ser Leu Thr Thr Lys Trp
 145 150 155 160
 Val Pro Leu Leu Leu Arg Asn His Ser Asp Ser Asp Gln Lys Ile Asn
 165 170 175
 Lys Leu Gln Asp Glu Ile Arg Ala Leu Gln Lys Arg Ala Gly Asp Ser
 180 185 190
 Glu Leu Gly Ala Ser Arg Glu Lys Tyr Gln Leu Leu Glu Thr Lys Met
 195 200 205
 Lys Met Leu Gln Asp Arg Val Val Leu Leu Glu Lys Thr Ser Asp Asn
 210 215 220
 Tyr Ala Thr Ser Ile Asn Thr Gln Met Arg Tyr Glu Lys Glu Asn Lys
 225 230 235 240
 Glu Arg Val Asp Lys Leu Ser Ser Asp Ile Ala Gln Phe Ala Ser Gln
 245 250 255
 Glu Thr Ile Leu Lys His Phe Ser Thr Glu Val Glu Glu Leu Lys Arg
 260 265 270
 Ile Thr Ile Ala Leu Asp Ala Lys Leu Ser Ser Leu Gln Lys Ala Gln
 275 280 285
 Glu Glu Tyr Ser Gly Ser Leu Gly Arg Val Asn Glu Ile Ile Asp Ala
 290 295 300
 Gln Arg Lys Arg Leu Asp Ala Ser Asn Asp Asn Ser Ala Thr Phe Glu
 305 310 315 320
 Lys Lys Phe Lys Glu Ile His Glu Arg Leu Ala Pro Ile Glu Lys Val
 325 330 335
 His Val Ile Pro Pro Glu Gly Pro Ala Thr Val Pro Ile Asp Ala Ser
 340 345 350
 Lys Ile Glu Leu Arg Leu Lys Asn Val Glu Asp Asn Leu Ala Lys Ile
 355 360 365
 Pro Arg Pro Asp Ser Ser Leu Arg Ser Thr Val Gln Asn Leu Ser Glu
 370 375 380
 Gln Leu Gln Gln Leu Gln Ser Leu Gln Ala Met Lys Asp Glu Phe His
 385 390 395 400
 Phe Ala Glu Met Glu Glu Ile Lys Lys Ser Thr Val Asp Lys Ala Asp
 405 410 415
 Ile Lys Ser Leu Lys Asp Asn Tyr Ser Arg Leu Ala Asp Glu Thr Arg
 420 425 430
 Arg Ile Ser Gln Leu Asp Arg Ala Gly Ala Val Gly Gln Ala Glu Ile
 435 440 445
 Gln Ser Leu Lys Asp Ser Tyr Ser Arg Leu Ala Gly Glu Ile Gln Lys
 450 455 460
 Ile Gln Ser Asp Arg Ala Ile Ala Val Asp Lys Ala Glu Ile Gln Ser
 465 470 475 480
 Leu Lys Glu Thr Cys Ser Arg Leu Ala Glu Asn Ile Gln Lys Met Ser
 485 490 495
 Gln Trp Asn Pro Ala Ala Ala Leu Gln Gln Ile His Thr Val Asp Val
 500 505 510
 Lys Ile Asn Thr Val Asp Ala Ala Leu Lys Tyr Ser Asn Arg Leu Leu
 515 520 525
 Glu Ser Val Arg Val Gly Leu His Ser Leu Glu Thr Arg Tyr Asn His
 530 535 540
 Leu Ser Thr Glu Met Val Val Lys Asn Met Val Val Ala Met Gln Glu
 545 550 555 560
 Met Tyr Pro Ser Ala Gly Gln Leu Thr Glu Gln Ile Thr Thr Leu Lys
 565 570 575
 Asn Gln Ala Glu Lys Glu Ile Ser Ser Leu Lys Lys Thr Ile Glu Gln
 580 585 590

13145

Leu Val Gln Thr Gln Asn Ser Gln Lys Ala Leu Val Asn Cys Leu Gln
 595 600 605
 Asp Asp Val Gly Gln Arg Ser Ala Glu Ile Thr His Leu Arg Asp Leu
 610 615 620
 Phe Gly Lys Val Ala His Gln Val Ser Ala Leu Thr Glu Gln Leu Glu
 625 630 635 640
 Glu Val Arg Ala Leu Pro Asp Lys Lys Gly Lys Glu Val Ser Asp Gly
 645 650 655
 Gln Asn Arg Ile Glu Leu Asn Glu Ser Phe Arg Glu Leu Lys Asp Gln
 660 665 670
 Val Gln Asn Leu Ser Ser Gly Leu Asn Gln Met Lys Val Val Met Ser
 675 680 685
 Glu Ile Thr Leu Asn Lys Lys Asp Leu Gln Ser Leu Asp Asp Arg Phe
 690 695 700
 Arg Cys Leu Glu Glu Ser Val Ser Val Asn His Arg Val Leu Ser Glu
 705 710 715 720
 Gln Ile Asn Thr Leu Lys Asp Ser Leu Glu Thr His Lys Ser Ile Val
 725 730 735
 Gln Ala Leu Asp Cys Leu Pro Ala Ser Gly Met Gln Ser Leu Lys Arg
 740 745 750
 Glu Gln Ser Pro Ser Gly Ser Asp Ala Ala Pro His Thr Asn Phe Val
 755 760 765
 Glu Met Thr Glu Thr Asn Pro Ala Leu Ala Leu Arg Glu Lys Lys Arg
 770 775 780
 Lys Lys Lys Arg Pro Arg Pro Pro Thr Val Ser Asp Asn Glu Asn Glu
 785 790 795 800
 Arg Ser Ser Gly Ser Arg Asn Glu Ser Pro Met Ile Phe Ser Ser Pro
 805 810 815
 Ala His Thr Leu Asp Asn Glu Val Ala Ser Pro Ser Glu Asn Lys Arg
 820 825 830
 Lys Thr Lys Lys Lys Lys Arg Arg Leu Ile Thr Glu Gly Pro Ile
 835 840 845
 Thr Ile Asp
 850

<210> 33141

<211> 99

<212> PRT

<213> A.fumigatus

<400> 33141

Asn Ile Ala Trp Arg Thr Ser Trp Thr Gln Leu Arg Tyr His Ile Asn
 1 5 10 15
 Thr Ser Pro Val Leu Phe Gln Phe Val Leu Ala Ser Asp Leu Pro Asp
 20 25 30
 Gly Pro Asp Ser Glu Val Leu Ser Phe Phe Ser Lys Arg Pro Asp Ile
 35 40 45
 Thr Leu Arg Pro Thr Trp Tyr Ala Phe Asp Ser Leu Gln Asp Leu Gly
 50 55 60
 Arg His Pro Phe Phe Ser Pro Glu Ile Leu Leu Leu Ser His Ile Val
 65 70 75 80
 Ile Ser Arg Ser Ser Ser Thr Trp Leu Ser Tyr Thr Asn Ser Glu Ser
 85 90 95
 Cys Leu Thr

<210> 33142
 <211> 205
 <212> PRT
 <213> A.fumigatus

<400> 33142

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Arg Ile Leu Pro Asp Val Arg Arg Ala Leu Ser Ile Met Ser Ile Ser
1           5           10           15
Gly Pro Cys Val Trp Leu Ser Ser Leu Ser Pro Pro Ala Thr Ser His
           20           25           30
Leu Ser Ala Ile Thr Asn His Leu Pro Ala Thr Ser Trp Asn Ser Glu
           35           40           45
Gln Val Leu Ser Arg Ser Arg Val Ser Pro Pro Arg Leu Pro Tyr Pro
           50           55           60
Gly Glu Lys Gly Gly His Ser Val Gln Lys Leu Ala Val Asp Met Gln
65           70           75           80
Pro Ser Ala Val Leu Lys Ala Glu Asn Ala Leu Ser Ala Ser Thr Val
           85           90           95
Val Ala Thr Ser Asn His Val Arg Ser Ser Glu Ala Glu Met Pro Pro
           100          105          110
Pro Lys Glu Ala Glu Ser Arg Ser Thr Glu Glu Thr Leu Ser Arg Met
           115          120          125
Arg Leu Asp Gln Leu Asn His Ser Glu Ser His Pro Ser Gly Val Ser
           130          135          140
Thr Pro Ala Ser Pro Ser Val Ser Lys Ala Ala Ser Leu Glu Ala Lys
145           150          155          160
Lys Arg Pro Gln Glu Glu Thr Arg Gly Asp Glu Lys Asp Asp Gly Glu
           165          170          175
Ala Met Gly Ile Ser Ser Asp Glu Gly Asp Gln Lys Asn Ser Ser
           180          185          190
Asp Ala Lys Thr Asp Lys Lys Lys Met Lys Arg Phe Arg
           195          200          205

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<210> 33143
 <211> 466
 <212> PRT
 <213> A.fumigatus

<220>

<221> UNSURE

<222> (412)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33143

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Leu Asp Gly Arg Phe Gly Arg Val Pro His Gly Gly Phe Arg Cys Ala
1           5           10           15
Cys Val Ile Val Gly Gly Gly Gly Gly Ala Gly Gly Ala Ala Val
           20           25           30
Glu Ile His Arg Gly Pro Gly Tyr Phe Gln Cys Cys Gly Cys Arg Ser
           35           40           45
Gly Met Ser Gly Ser Phe Ser Leu Gly Ile Val Gly Leu Val Gly Leu
           50           55           60
Thr Val Gly Leu Phe Ser Lys Gly Leu Asp Lys Ile Asn Pro Pro Lys
65           70           75           80
Lys Arg Pro Gln Val Ala Ser Ser Leu Lys Ser Phe Ile Asn His Phe
           85           90           95

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13147

Phe Pro Ser Val Glu Lys Val Leu Ser Val Asp Ser Arg Gln Glu Cys
 100 105 110
 Ser Asn Val Val Arg Ser Leu Cys Thr Ala Thr Pro Lys Gly Ile Arg
 115 120 125
 Trp Arg Asp Glu Arg Ser Trp Met Leu Val Glu Glu Val Lys Trp Pro
 130 135 140
 Glu Ala Thr Thr Glu Val Val Asp Asp Val Val Leu Thr Gly Ile Val
 145 150 155 160
 Arg Gly Lys Gly Leu Lys Ala Asp Arg Leu Val His Ile Pro Gly Trp
 165 170 175
 Gly Asp Phe Gln Ile Asp Ser Ile Thr Ala Ala Pro Leu Pro Asn Ala
 180 185 190
 Arg Ala Lys Arg Asp Asp Ala Met Asn Val Asp Glu Asn Glu Ala Pro
 195 200 205
 Gln Val Leu Asp Val Pro Thr Ala Asp Arg Asp Asp Leu Ala Thr Val
 210 215 220
 Ala Pro Glu Glu Ile Glu Met Glu Glu Asp Asp Ile Ser Ile Ala Glu
 225 230 235 240
 Thr Glu Arg Lys Gly Val Leu Leu Asp Asp His His Tyr Phe Ser Asp
 245 250 255
 Asp Asp Ser His Leu Pro Ala Arg Pro Lys Arg Leu Pro Lys Gly Thr
 260 265 270
 Ser Glu Tyr Gln Ser Ala Trp Phe Ile Asp Asp Val Ser Asp Ser Gly
 275 280 285
 Ser Asp Ile Glu Glu Glu Glu Glu Gln Asp Glu Ala Met Ala Met Asp
 290 295 300
 Thr Ala Gly Asn Pro Glu Asp Gly Val Phe Pro Asp Arg Gln Asp Ala
 305 310 315 320
 Met Thr Glu Ala Gly Pro Ser Glu Tyr Pro Gln Ser Glu Met Phe Leu
 325 330 335
 Asp Pro Ser Pro Glu Asp Glu Ala Gln Leu Glu Glu Tyr Arg Ala
 340 345 350
 Ser Arg Arg Lys Glu Ala Ser Glu Asp Leu Glu Phe Pro Asp Glu Ile
 355 360 365
 Glu Leu His Pro Asn Val Leu Ala Arg Glu Arg Leu Ala Arg Phe Arg
 370 375 380
 Gly Leu Lys Asn Phe Lys Thr Ser His Trp Glu Thr Ala Glu Asp Arg
 385 390 395 400
 Pro His Glu Pro Lys Asp Trp Arg Arg Leu Leu Xaa Ile Val Asp Tyr
 405 410 415
 Lys Gly Ser Lys Asn Lys Thr Leu Arg Glu Ala Leu Val Gly Gly Val
 420 425 430
 Glu Pro Gly Ile Arg Val Asp Val Pro Leu Arg Gly Val Pro Ser Ser
 435 440 445
 Leu Arg Asn Arg Arg Gln Pro Leu Ser Leu Phe Ser Leu Leu Arg His
 450 455 460
 Glu His
 465

<210> 33144

<211> 167

<212> PRT

<213> A.fumigatus

<400> 33144

Ser Gly Lys Val Glu Arg Gly Thr Arg Lys Thr Pro His Gln Gln Leu

13148

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1           5           10           15
Met Ser Lys Leu Asp Arg Arg Asn Gln Ala Arg Gln Lys Gln Gln Leu
      20           25           30
Lys His Gln Glu Lys Ala Gln Ala Asn Ser Ile Phe Thr Gly Ala Asn
      35           40           45
Gly Ala Pro Arg His Val Ala Val Val Pro Leu Ser Val Asp Val Asp
      50           55           60
Val Ala Ala Ile Leu Arg Ser Leu Asn Glu Ser Val Asp Val Ser Ala
      65           70           75           80
Asp Val Ser Ala Asp Thr Ile Ser Arg Val Arg Ile Asp Arg Phe Arg
      85           90           95
Gln Ser Leu Gln Tyr Ile Pro Ala Lys Tyr Asp Leu Met Gly Ala Leu
      100          105          110
Asp Val Cys Arg Met Ala Asp Phe Val Val Leu Ala Leu Ser Ser Glu
      115          120          125
Val Glu Val Glu Glu Gln Gly Glu Gln Leu Leu Arg Ser Ile Glu Gly
      130          135          140
Gln Gly Ile Ser Asn Val Val Ala Val Val Gln Val Cys Arg Asp Pro
      145          150          155          160
Ser Ala Leu Gly Leu Ser Gly
      165

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<210> 33145

<211> 263

<212> PRT

<213> A.fumigatus

<400> 33145

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Trp Trp Ser Ser Arg Arg Thr Pro Leu Arg Ser Val Ser Ala Ile Glu
1           5           10           15
Ile Ser Ser Ser Ser Ile Ser Ile Ser Ser Gly Ala Thr Val Ala Arg
      20           25           30
Ser Ser Arg Ser Ala Val Gly Thr Ser Lys Thr Cys Gly Ala Ser Phe
      35           40           45
Ser Ser Thr Phe Met Ala Ser Ser Arg Phe Ala Arg Ala Phe Gly Ser
      50           55           60
Gly Ala Ala Val Ile Glu Ser Ile Trp Lys Ser Pro His Pro Gly Ile
      65           70           75           80
Trp Thr Arg Arg Ser Ala Phe Ser Pro Phe Pro Arg Thr Met Pro Val
      85           90           95
Lys Thr Thr Ser Ser Thr Thr Ser Val Val Ala Ser Gly His Phe Thr
      100          105          110
Ser Ser Thr Ser Ile Gln Leu Arg Ser Ser Arg Gln Arg Ile Pro Phe
      115          120          125
Gly Val Ala Val His Ser Asp Arg Thr Thr Leu Glu His Ser Cys Leu
      130          135          140
Glu Ser Thr Asp Arg Thr Phe Ser Thr Glu Gly Lys Lys Trp Leu Met
      145          150          155          160
Asn Asp Leu Arg Glu Ala Thr Cys Gly Arg Phe Leu Gly Gly Leu
      165          170          175
Ile Leu Ser Arg Pro Leu Glu Asn Lys Pro Thr Val Ser Pro Thr Ser
      180          185          190
Pro Thr Ile Pro Arg Leu Lys Asp Pro Asp Ile Pro Glu Arg Gln Pro
      195          200          205
Gln His Trp Lys Tyr Pro Gly Pro Arg Trp Ile Ser Thr Ala Ala Pro
      210          215          220

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13149

Pro Ala Pro Pro Pro Pro Pro Pro Thr Ile Thr Gln Ala Gln Arg Asn
 225 230 235 240
 Pro Pro Cys Gly Thr Arg Pro Lys Arg Pro Ser Ser His Ile Ser Gln
 245 250 255
 Glu Tyr Thr Ala Gly Ser Val
 260

<210> 33146
 <211> 480
 <212> PRT
 <213> A.fumigatus

<400> 33146
 Glu Thr Ala Ser Leu Ala His Ser Asp Thr Ala Asp Ser Leu Ser Gly
 1 5 10 15
 Ile Pro Gln Gly Asn Ser Ile Arg Met Gly Tyr Gly Gly His Gln
 20 25 30
 Tyr His Pro Gln Arg Gln Ala Gln Asn Ala His Pro Gln Gln Gln
 35 40 45
 Gln His Leu Gln Ser Pro Ser Leu Ser Gly Ala Ala Ala His Ser Val
 50 55 60
 His Ser Ser Asn Gly Ile Ala Ala Asn Ser Ser Leu Leu Arg Gly Gln
 65 70 75 80
 Gln Gln Ser Asp Leu Ala Ser Asn Ser Pro Asp Leu Arg Lys Met Thr
 85 90 95
 Pro Ser Ser Ser Ala Ser Met Val Gly Phe Thr Ala Gly Gly Gly Tyr
 100 105 110
 Gly Thr Tyr Gly His Tyr Ala Pro Gln Gly Thr Ser Asp Leu Leu Ser
 115 120 125
 Arg His Thr Asp Ser Val Gly Gln Leu Lys Asp Pro Tyr Leu Ser Gln
 130 135 140
 Ile Gln Ser Leu Gln Arg Asn Met Asn Pro Met Ala Lys Leu Pro Ser
 145 150 155 160
 Ala Pro Ser His Glu Pro Ser Ser Arg His Val Ala Thr Cys Ser Gly
 165 170 175
 Asp Glu Tyr Phe Val Ser Ala Ala Val Ile Arg Glu Val Ala Thr Ala
 180 185 190
 Ser Pro Ser Ala Ala Pro Ala Asp Ile Pro Tyr Ala Ser Leu Cys Asp
 195 200 205
 Phe Ala Cys Gly Arg Val Ala His Ala Cys Asp Tyr Ser Thr Pro Ala
 210 215 220
 Asn Ser Ala Pro Val Pro Ala Ser Ala Thr Ala Ala Ala Thr Thr
 225 230 235 240
 Val Ser Ala Ile Leu Thr Ala Asp Arg Val Ser Ala Asp Pro Gly Ala
 245 250 255
 Ser Ile Ser Val Pro Thr Ala Ser Val Val Ser Val Pro Thr Ser Pro
 260 265 270
 Gly Ala Gly Ile Ala Ile Pro Ala His Ala Ala Asp Leu Ser Ala Ala
 275 280 285
 Ser Ser Ala Asp Val Ser Thr Ala Thr Ala Ser Ser Ala Val Thr Val
 290 295 300
 Pro Gly Thr Ala Thr Ala Ala Ala Ser Val Pro Thr Val Ser Val Pro
 305 310 315 320
 Ala Val Pro Ala Gly Ser Thr Ser Pro Thr Gly Ala Cys Thr Ala Ser
 325 330 335
 Thr Thr Asp Pro Ser Thr Thr Asn Thr Ala Ser Thr Ala Cys Ala Ala

<210> 33148
 <211> 756
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (665), (671)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 33148
 Ile Pro Trp Gln Asn Phe Arg Pro His Pro Ala Met Asn Pro Gln Ala
 1 5 10 15
 Ala Met Ser Pro His Ala Gln Ala Met Ser Ile Ser Ser Pro Gln Gln
 20 25 30
 Ser Tyr Glu Arg Leu Gln Gln His Pro His Leu Gln His Arg Gln Thr
 35 40 45
 Ser His Thr His Pro Ser Val Thr Ser Pro Ala Ala Ala Ser Pro Met
 50 55 60
 Leu Ala Thr Thr Gln Pro Gln Gln Thr Gln His Gln Tyr Gln Gln Ala
 65 70 75 80
 Gln Gln Gln Gln Gln Gln Pro Gln Tyr Pro Gln Ser Ser Gln Gln Thr
 85 90 95
 Ala Tyr Gln Gln Thr Gln Ala Gln Ala Ser Pro Tyr Gln Gln His Gln
 100 105 110
 Ser Ser Pro Phe Gln His His Gln Ala Gln Ala Ser Pro Tyr Gln His
 115 120 125
 Thr Gln Gln Thr Tyr Gln Gln Gln Ala Gln Gln Thr Tyr Gln Gln Gln
 130 135 140
 Gln Gln Ala Gln Gln Ser Arg Tyr Gln Ala Gln Gln Pro Gln Gln His
 145 150 155 160
 Gln Phe Gln Gln Tyr Pro Tyr Gln Arg Tyr Gln Gln Ala Gln Gln Ala
 165 170 175
 Gln Gln Val His Ala Gln Gln Ala Gln Gln Thr Gln Val Gln Pro Thr
 180 185 190
 Gln Pro Ala Gln His Val Gln Gln Gln Thr Gln Gln His Asn Cys Pro
 195 200 205
 Glu Ala Thr Gln Thr Gln Pro Ser Gln Gln Pro His Glu Gln Ala Val
 210 215 220
 Gln Gln Ala Leu Gln Gln His Arg Gln Ala Gln Gln Gln Ala His Gln
 225 230 235 240
 His Gln Arg Gln Ser Gln Gln Pro Ser Pro Tyr Ala Gln Gln Ala Gln
 245 250 255
 Gln His Thr Gln Gln His Thr Gln Gln His Thr Gln Gln Ala Gln Ala
 260 265 270
 Gln Gln Thr His Pro Gln Gln Thr His Gln Phe His Gln Gln Ser Gln
 275 280 285
 His Gln Gln Pro Gln Gln Lys Gln Ala Thr Pro Ser Ile Gln Pro Ala
 290 295 300
 Ala Leu Ser Gly Ala Lys Pro Ala Thr Gln Glu Pro Arg Lys Glu Glu
 305 310 315 320
 Thr Lys Pro Thr Lys Lys Arg Gly Arg Gln Pro Lys Ala Ala Ala Ala
 325 330 335
 Ala Ala Ala Ala Ser Ala Ser Pro Ala Ile Ala Ser Gly Lys Ile Asn
 340 345 350
 Gly Thr Thr Gln Pro Thr Pro Ala Ala Tyr Arg Pro Glu Ala Pro Ser

355	360	365
Pro Ile Gln Phe Val	Pro Gln His	Pro His Leu
370	375	380
His Ala Gln Ala His	Thr Gln Thr	Gln Ala Gln
385	390	395
Gln Ala Gln Pro	Gln Pro Gln	Ala Gln Val
405	410	415
Gln Leu Gln Asn	Pro Thr Ala	Met Gln Gly
420	425	430
Gln Asn Gln Gly	Gln Gly Gln	Asn Gln Gly
435	440	445
Gln Thr Gln Gly	Gln Thr Gln	Ser Gln Gly
450	455	460
Ala Gly Ser Gly	Thr Pro Gly	Ala Pro Gly
465	470	475
Pro Thr Pro Arg	Lys Arg Gly	Arg Pro Arg
485	490	495
Gly Ala Gln Pro	Lys Pro Lys	Pro Lys Lys
500	505	510
Ala Ser Ala Pro	Ala Ala Ala	Ala Gly Gly
515	520	525
Ala Val Pro Gly	Gln Gly Thr	Asn Ala Ala
530	535	540
Pro Gly Ala Ala	Pro Val Pro	Gly Pro Asp
545	550	555
Pro Val Lys Arg	Gly Arg Gly	Arg Pro Arg
565	570	575
Gly Thr Thr Pro	Lys Pro Lys	Thr Pro Arg
580	585	590
Pro Gly Gly Thr	Gly Arg Pro	Arg Gly Arg
595	600	605
Glu Ala Arg Lys	Arg Ala Glu	Ala Glu Ala
610	615	620
Glu Ala Gln Ala	Gln Glu His	Gly Gln Gly
625	630	635
Gln Ala Gln Val	His Ala His	Gly His Ala
645	650	655
Gln Val Gln Val	Gln Pro Pro	Ala Xaa Pro
660	665	670
Gln Ala Pro Ala	Gln Pro Gln	Ile Gln Ile
675	680	685
Gln Val Gln Pro	Ser Pro Gln	Pro Gln His
690	695	700
Ala Ser Pro Gln	Leu Gln Ala	Asn Ala His
705	710	715
Ala Lys Pro His	Gln His Gly	Gln Pro Thr
725	730	735
Ser Asn Asn Pro	Pro Asn Pro	Met Lys Leu
740	745	750
Arg Pro Pro Gln		
755		

<210> 33149

<211> 250

<212> PRT

<213> A.fumigatus

<400> 33149

Leu Arg Leu Arg Pro Arg Arg Pro Cys Leu Arg Leu Leu Asn Pro Ser
 1 5 10 15
 Lys Leu Ser Thr Ser Thr Ser Lys Arg Asn Ser Ser Ser Ser Asn His
 20 25 30
 Ser Ile Arg Asn Pro His Ser Arg Pro Arg Ile Ser Arg Pro Arg Arg
 35 40 45
 Lys His Leu Arg Thr Asn Ser Ile Ser Arg Leu Arg Ser Asn Ile Thr
 50 55 60
 Arg Arg Arg His Arg His Thr Ser Thr Arg Ser Arg Leu Ile Ser Ser
 65 70 75 80
 Lys Leu Ser Arg Arg Ile Asn Ser Asn Ser Lys Leu Ser Ser His Gly
 85 90 95
 Thr Arg His Ser Asn Arg Ser Ser Ile Ser Ser Asn Ser Ile Arg Thr
 100 105 110
 Ser Gly Thr Ser Arg Leu Asn Lys Pro Asn Arg Cys Met His Ser Lys
 115 120 125
 His Asn Arg Pro Lys Tyr Asn Gln His Ser Gln His Ser Met Cys Ser
 130 135 140
 Ser Arg Leu Ser Ser Thr Thr Ala Arg Lys Arg His Lys Pro Ser Arg
 145 150 155 160
 Leu Asn Asn Arg Thr Asn Lys Gln Cys Ser Lys His Cys Ser Asn Ile
 165 170 175
 Ala Arg Leu Asn Ser Lys Pro Ile Asn Ile Arg Asp Ser Arg Ser Ser
 180 185 190
 Arg Val Pro Thr Leu Asn Arg His Ser Asn Ile Arg Ser Ser Ile Arg
 195 200 205
 Ser Asn Ile Arg Ser Lys Pro Lys Pro Ser Lys Arg Ile Arg Ser Lys
 210 215 220
 Arg Ile Ser Ser Ile Ser Ser Arg Ser Ile Ser Ser His Ser Lys Ser
 225 230 235 240
 Lys Arg Arg His Gln Ser Asn Arg Leu Leu
 245 250

<210> 33150

<211> 255

<212> PRT

<213> A.fumigatus

<400> 33150

Ala Glu Gln Asn Leu Leu Leu Lys Asn Pro Glu Arg Arg Lys Arg Asn
 1 5 10 15
 Gln Arg Arg Ser Val Val Asp Asn Pro Arg Pro Gln Pro Gln Pro Gln
 20 25 30
 Pro Leu Pro Arg Leu Leu Arg Leu Leu Gln Ala Arg Ser Thr Glu Arg
 35 40 45
 His Asn Gln Arg Gln Pro Pro Ile Val Pro Arg Pro His Arg Arg Ser
 50 55 60
 Asn Ser Tyr Leu Ser Ile His Thr Phe His Arg Leu Lys Leu Thr Leu
 65 70 75 80
 Arg Pro Thr Leu Arg Arg Lys Arg Arg Leu Asn Pro Ile Pro Lys Pro
 85 90 95
 Asn Leu Ser Pro Ser Phe Asn His Lys Leu Arg Cys Leu Thr Ser Cys
 100 105 110
 Arg Thr Pro Gln Leu Cys Lys Ala Arg Thr Arg Ala Lys Ala Arg Thr

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<210> 33151
<211> 244
<212> PRT
<213> A.fumigatus
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[illegible]

<210> 33152
 <211> 216
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (22), (28)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 33152
 Arg Leu Asn Leu Val Leu Arg Leu His Gly Asn Leu Asn Leu Arg Leu
 1 5 10 15
 Ser Arg Gly Leu Arg Xaa Arg Leu Trp Leu Arg Xaa Gly Arg Arg Leu
 20 25 30
 Asn Leu His Leu Asn Arg Cys Leu Ser Met Cys Met Ser Met Cys Met
 35 40 45
 Tyr Leu Cys Leu Ser Met Pro Leu Ser Leu Ser Leu Ser Val Leu Leu
 50 55 60
 Gly Leu Arg Leu Gly Leu Gly Leu Gly Leu Ser Phe Gly Phe Gly Ser
 65 70 75 80
 Leu Pro Cys Phe His Val Gly Leu Ala Arg Thr Thr Ala Trp Pro Thr
 85 90 95
 Ser Ala Thr Gly Phe Arg Gly Gly Trp Leu Ala Arg Cys Phe Gly Phe
 100 105 110
 Gly Gly Cys Ala Trp Gly Cys Leu Arg Leu Thr Gly Pro Ser Ala Ala
 115 120 125
 Ser Leu Tyr Arg Asn Gly Arg Asp Arg Thr Ile Arg Thr Arg Asn Arg
 130 135 140
 Gly Ser Thr Trp Ser Gly Ser Cys Ala Arg Gly Ser Ile Gly Ser Leu
 145 150 155 160
 Thr Arg Asn Gly Gly Ala Ser Arg Ser Thr Thr Ser Gly Gly Arg Gly
 165 170 175
 Gly Cys Thr Cys Ser Gly Arg Ser Gly Phe Leu Arg Leu Arg Leu Trp
 180 185 190
 Arg Leu Cys Ser Ile Gly Gln Gly Ile Phe Pro Trp Thr Ala Ala Leu
 195 200 205
 Pro Gly Cys Arg Ser Arg Leu Leu
 210 215

<210> 33153
 <211> 149
 <212> PRT
 <213> A.fumigatus

<400> 33153
 Trp Arg Arg Leu Leu Leu Trp Leu Leu Met Leu Arg Leu Leu Met
 1 5 10 15
 Glu Leu Met Arg Leu Leu Arg Met Arg Leu Leu Gly Leu Gly Leu Leu
 20 25 30
 Arg Met Leu Leu Arg Met Leu Leu Arg Met Leu Leu Cys Leu Leu Ser
 35 40 45
 Val Gly Thr Arg Leu Leu Arg Leu Ser Leu Met Leu Met Gly Leu Leu
 50 55 60
 Leu Ser Leu Ala Met Leu Leu Gln Cys Leu Leu His Cys Leu Phe Val

[illegible]

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<210> 33154
<211> 173
<212> PRT
<213> A.fumigatus
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Trp	Arg	Ile	Ile	Leu	Ser	Leu	Leu	Gly	Gly	Arg	Leu	Val	Lys	Asn	Gly
1				5					10					15	
Arg	Arg	Phe	Leu	Leu	Pro	Arg	Asn	Lys	Arg	Leu	Lys	Thr	Ala	Asp	Gly
			20					25					30		
Arg	Ala	Ser	Val	Lys	Gln	Glu	Ser	Gly	Glu	Lys	Lys	Tyr	Leu	Pro	Tyr
		35					40					45			
Pro	Ala	Gly	Tyr	Gln	Gly	Tyr	Pro	Thr	Val	Ala	Met	Ile	Thr	Ala	Ala
	50					55					60				
Val	Asn	Glu	Ser	Gly	Ile	Thr	Pro	Val	Arg	Leu	Gly	Glu	Glu	Ser	Ile
65				70						75				80	
Ile	Gln	Leu	Leu	Glu	Met	Leu	Cys	Tyr	Asp	Lys	Lys	Leu	Val	Ala	Leu
			85						90					95	
Asn	Asn	Gly	Gln	Phe	Tyr	Lys	Ser	Val	Lys	Asn	Pro	Ala	Ala	Val	Lys
			100					105					110		
Met	Glu	Lys	Asn	Arg	Lys	Pro	Glu	Gly	Asp	Val	Glu	Asp	Val	Gly	Asp
		115					120					125			
Lys	Leu	Val	Thr	Asn	Gly	Met	Thr	Glu	Val	Pro	Cys	Gly	Pro	Cys	Pro
	130					135					140				
Val	Phe	Lys	Leu	Cys	Val	Pro	Gly	Gly	Ala	Val	Ser	Pro	Glu	Thr	Cys
145				150						155					160
Glu	Tyr	Phe	Asp	Pro	Trp	Leu	Gln	Lys	Ala	Leu	Gly	Phe			
			165						170						

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<210> 33155
<211> 69
<212> PRT
<213> A.fumigatus
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[illegible]

65

<210> 33156
 <211> 145
 <212> PRT
 <213> A.fumigatus

<400> 33156
 Pro Ser Tyr Asp Gln Gln Gln His His Pro Gln Tyr Ser Gly Pro Pro
 1 5 10 15
 Pro Ser Tyr Gly Gln Gln Gly Tyr Pro Pro Gln His Gly Ala Pro His
 20 25 30
 Gln Gln Gly Gly Tyr Ala Gly Asp Gln Asn Tyr Gly Gln Gly Ala Pro
 35 40 45
 Met Asn Tyr Pro Pro His Asp Cys Gly His Ser Pro Tyr Pro Pro Gln
 50 55 60
 Gln Gln Gln Tyr Asn Pro Gln Gly Ala Ser Ala Ser Tyr Tyr Gly Ala
 65 70 75 80
 Pro His Pro Glu Gln His Gln Gln Gly Ala His Ala Pro Val Pro Val
 85 90 95
 Gly Gln Glu Gly Glu Arg Gly Leu Gly Ser Thr Leu Leu Gly Gly Ala
 100 105 110
 Ala Gly Gly Ile Ile Gly Lys Lys Leu Gly Gly Gly Leu Leu Gly Ala
 115 120 125
 Ala Gly Gly Ala Leu Ala Gly Ala Ala Gly Met Asn Met Ala Thr Lys
 130 135 140
 Met
 145

<210> 33157
 <211> 109
 <212> PRT
 <213> A.fumigatus

<400> 33157
 Ala Asp Ala Glu Met Ala Pro Gln Ile Lys His Lys Ser Gly Asp Ser
 1 5 10 15
 Val His Ser Gln Ala Pro Gln Leu Ser Asp His Arg Arg Trp Gln Ser
 20 25 30
 Phe Trp Glu Trp Leu Gln Gly Gln Phe His Leu Arg Pro Pro Asp Asp
 35 40 45
 Asp Glu Pro Gln Asp Trp Trp Leu Ala Ser Thr Ala Val Pro Leu Val
 50 55 60
 Ala Ala Ala Thr Gly Pro Leu Ala Asn Val Met Ser Val Val Ala Leu
 65 70 75 80
 Val Met Pro Trp Arg Ser His Ile Ser Phe Asp Gln Lys Asp Ser Leu
 85 90 95
 Gly Asn Pro Leu Gln Val Gly Phe Ser Asp Pro Arg Trp
 100 105

<210> 33158
 <211> 548
 <212> PRT
 <213> A.fumigatus

<400> 33158

Leu Val Ala Ala Thr Val Ala Leu His Val Phe Ala Ser Pro Ile Ala
 1 5 10 15
 Pro Asn Glu Leu Tyr Ser Gln Ala Tyr Trp Ser Ala Val Ile Ala Ala
 20 25 30
 Ile Leu Tyr Phe Ile Leu Ser Val Ile Leu Ile Ile Asn Met Leu Gly
 35 40 45
 Tyr Ile Leu Gly His Tyr Pro Gln Tyr Phe Ala Leu Thr Asp Gly Gln
 50 55 60
 Arg Thr Leu Ile Leu Gln Thr Leu Ser Phe Val Ile Trp Leu Leu Ile
 65 70 75 80
 Gly Ala Val Ile Phe Ser Arg Val Ile Asp Ile Ser Phe Ala Asp Ala
 85 90 95
 Leu Tyr Phe Ser Asp Val Thr Ile Leu Thr Val Gly Phe Gly Asp Ile
 100 105 110
 Ala Pro Thr Asn Ala Ile Gly Arg Gly Ile Leu Phe Pro Tyr Ala Val
 115 120 125
 Met Gly Ile Ile Met Leu Gly Leu Val Val Gly Ser Ile His Gln Phe
 130 135 140
 Ala Lys Asp Leu Gln Tyr Asp Asn Val Ile Arg Lys His Ile Glu Arg
 145 150 155 160
 Lys Arg Leu Ala Thr Ile Arg Arg Ala Thr Thr Leu Glu Lys Lys Cys
 165 170 175
 Thr Gly Pro Ala Glu Asn Gly Ala His Thr Ser Gly Ser Gly Thr Ala
 180 185 190
 Gln Ile Gly Tyr Arg Pro His Tyr Ser Arg Glu His Pro Ile Ile Ser
 195 200 205
 Ser Ile Ser Ser Trp Thr Gln Gly Leu Ala Gly Arg Ser Lys Leu Ile
 210 215 220
 Leu Met Lys Glu Glu Lys Asp Arg Phe Gly Ala Met Arg Ala Ile Gln
 225 230 235 240
 Lys Glu Thr Ile Ile Phe Arg Arg Thr Tyr Asn Leu Leu Leu Ser Ile
 245 250 255
 Ala Ile Phe Gly Ile Val Trp Thr Cys Gly Ala Val Val Phe Trp Gln
 260 265 270
 Leu Asp Glu Asp Leu Ser Tyr Phe Asn Ala Leu Tyr Phe Gly Phe Cys
 275 280 285
 Ser Leu Ile Thr Val Gly Tyr Gly Asp Phe Thr Pro Thr Thr Asn Ala
 290 295 300
 Ala Lys Pro Phe Phe Val Val Trp Ser Leu Ile Ala Val Pro Thr Met
 305 310 315 320
 Thr Thr Leu Ile Ser Glu Met Ser Asp Thr Val Val Ala Trp Phe Lys
 325 330 335
 Asn Ala Thr Asp Lys Val Ala Asp Trp Thr Val Leu Pro Gln Ser Ser
 340 345 350
 Lys Tyr Gln Ala Phe Leu Gln Arg Leu Pro Val Ile Tyr Ser Ala Leu
 355 360 365
 Glu Arg Arg Ala Glu Lys Lys Arg Val Ala Gln Gly Phe Pro Ile Gly
 370 375 380
 Asp Leu Glu Pro Gly Gln Pro Gln Asn Asp Ala Ala Asp Phe Ser His
 385 390 395 400
 Arg Pro Arg Pro Leu Glu Asp Leu Ala Arg Asp Ser Asn Pro Ser Arg
 405 410 415
 Gln Asp Leu Ala Gln Gln Leu Ala Phe Ala Ile Arg Arg Thr Ala Arg
 420 425 430
 His Ala Leu Ala Arg Arg Pro Lys His Tyr Ser Tyr Glu Glu Trp Val
 435 440 445

13159

Glu Phe Thr Arg Leu Ile Arg Phe Thr Asp Asn Ser Pro Glu Gly Val
 450 455 460
 Val Leu Asp Glu Asp Glu Tyr Gly Val Leu Asn Trp Asp Trp Ile Gly
 465 470 475 480
 Glu Thr Ser Pro Met Leu Ala Ser Gln Thr Glu Pro Glu Trp Ile Leu
 485 490 495
 Asp Arg Leu Cys Glu Ser Val Ile Arg Tyr Val Asp Gly Gln Gly Arg
 500 505 510
 Arg Gln Pro Ser Asp Gln Asp Val Lys Pro Leu Ser Val Ala Asn Gly
 515 520 525
 Asp Glu Asp Val Glu Glu Pro Thr Leu Arg Lys Glu Arg Asp Ile Arg
 530 535 540
 Phe Glu Asp Asp
 545

<210> 33159

<211> 146

<212> PRT

<213> A.fumigatus

<400> 33159

Leu Lys Lys Tyr Tyr Ser Leu Leu Met Trp Leu Leu Thr Arg Thr Thr
 1 5 10 15
 Ala Gln Arg Asn Asn His His Pro Gln Asn Leu Glu Leu Thr Ser His
 20 25 30
 His Leu Pro Gln Val Thr Gln His His Ala Leu Gln Leu Leu Pro Pro
 35 40 45
 Pro Pro Lys Thr Gln Ala Ser Arg His Asn Ala Pro Pro His Pro Pro
 50 55 60
 Asn Arg Pro Phe Pro Leu Pro Pro Val Ser Asp Leu Gln Thr Ala Lys
 65 70 75 80
 Pro Pro His Pro Leu Pro Pro Thr Pro Leu Pro Arg Arg Pro Leu Pro
 85 90 95
 Arg Pro Ala Pro Gln Pro Gln Glu Ala Arg Gly Ala Asp His Arg Arg
 100 105 110
 Cys Pro Leu Ala Ile Tyr Thr Ala Asp Ser Ser Asn Ala Lys Gly Ala
 115 120 125
 Gln Arg Ile Arg Asp Val Leu Cys Asp Trp Val Ala Asp Gly Arg Gly
 130 135 140
 Arg Ala
 145

<210> 33160

<211> 263

<212> PRT

<213> A.fumigatus

<400> 33160

His Asn Thr Met Leu Tyr Ser Cys Tyr Arg Arg Arg Arg Lys Leu Lys
 1 5 10 15
 Arg Leu Val Ile Met Leu Leu Pro Ile Leu Leu Thr Ala Leu Phe Leu
 20 25 30
 Ser Pro Leu Tyr Leu Ile Tyr Lys Pro Pro Ser Leu Leu Ile Arg Tyr
 35 40 45
 Leu Gln His Arg Tyr Pro Asp Val Leu Phe His Val Pro Arg Pro Ser
 50 55 60

13160

His Lys Lys Leu Val Ala Leu Thr Ile Asp Asp Ala Pro Ser Gln Tyr
 65 70 75 80
 Thr Pro Gln Ile Ala Ala Thr Leu Lys Ala His Ser Ala Ser Ala Thr
 85 90 95
 Phe Phe Val Ile Gly Ser Gln Met Asp Gly Asp Gly Arg Glu Ala Val
 100 105 110
 Leu Ala Asp Leu Val Arg Ala Gly His Glu Leu Gly Asn His Ala Met
 115 120 125
 Arg Asp Glu Pro Ser Arg Ala Leu Ser Asp Glu Glu Leu Ser Ala Gln
 130 135 140
 Ile Ala Glu Val Gln Ala Arg Ile Ser Arg Val Tyr Ala Arg Ala Gly
 145 150 155 160
 Val Glu Glu Pro Arg Leu Arg Trp Phe Arg Pro Gly Ser Gly Phe Phe
 165 170 175
 Ser Glu Arg Met Arg Arg Leu Val Gly Gly Met Gly Leu Arg Ile Ala
 180 185 190
 Leu Gly Ser Val Tyr Pro His Asp Pro Gln Val Pro Tyr Ala Trp Met
 195 200 205
 Asn Ala Ala His Ile Leu Ser Met Val Arg Pro Gly Ser Val Ile Ile
 210 215 220
 Cys His Asp Arg Arg Ser Trp Thr Val Pro Met Leu Gly Arg Val Leu
 225 230 235 240
 Pro Glu Leu Arg Lys Arg Gly Tyr Arg Val Val Thr Leu Ser Glu Leu
 245 250 255
 Val Lys Asp Ala Glu Asn Ser
 260

<210> 33161

<211> 255

<212> PRT

<213> A.fumigatus

<400> 33161

Thr Cys Tyr Gln Gln Ile Thr Arg Pro Pro Pro Gly Ser Lys Pro Ser
 1 5 10 15
 Thr Glu Pro Phe Phe Thr Asn His Phe Cys Thr Arg Ile Ile Asp Pro
 20 25 30
 Glu Thr Gly Met Tyr Leu Pro Lys Phe Asn Val Cys Ala Ala Cys Ile
 35 40 45
 Arg Asn Leu Arg Ile Leu Met Pro Gln His Arg Glu Thr Phe Thr Arg
 50 55 60
 Ser Ala Thr Met Gln Glu Gln Val Cys Asp Phe Val Ala Asp Ser Pro
 65 70 75 80
 Arg Phe Val Gln Tyr Ile Asp Leu Leu Asp Ile Ala Ala Asn Arg Ala
 85 90 95
 Glu Leu Glu Arg Ser Pro Arg Pro Asp Met Thr Ala Phe Leu Ala Tyr
 100 105 110
 Ala Arg Arg Lys Val Val Leu Arg Asp Cys Arg Arg Asp Arg Pro Val
 115 120 125
 Leu Gly Thr Trp Tyr Tyr Met Pro Gln Leu Pro Glu Phe Thr Val Cys
 130 135 140
 Glu Asp Cys Tyr Asp Asp Val Val Trp Pro Leu Val Lys Ala Asn Lys
 145 150 155 160
 Pro Ile Ala Arg Gln Phe Leu Thr Arg Met Arg Leu Ala Pro Gly Asp
 165 170 175
 Ala Pro Thr Arg Cys Arg Glu Ala Ser Cys Gln Leu Tyr Ser Pro Arg

13161

	180		185		190
Ile Arg Ala Lys Phe Arg Asp Ala Val Gln Arg Asn Asp Leu Ala Tyr					
	195		200		205
Leu Lys Leu Ile Ala Leu Lys Arg Tyr Asp Val Glu Gln His Ile Arg					
	210		215		220
Glu Arg Arg Glu Glu Leu Leu Glu Glu Glu Ser Lys Gly Tyr Asp Cys					
225		230		235	240
Asp Ala Glu Leu Arg Lys Thr Leu Leu Glu Trp Arg Arg Trp Glu					
	245		250		255

<210> 33162

<211> 137

<212> PRT

<213> A.fumigatus

<400> 33162

Asn His Arg Ala Met Ser Ala Ala Arg Ala Lys Leu Ala Glu Leu Arg					
1	5		10		15
Ala Leu Arg Ala Ala Gly Lys Lys Arg Leu Ser Thr Tyr Glu Ile Glu					
	20		25		30
Glu Gln Asp Asp Ile Phe Glu Glu Val Asp Asp Glu Gly Tyr Lys Lys					
	35		40		45
Ile Ile Arg Asp Arg Leu Asp Gln Asp Asp Phe Val Val Asp Asp Asn					
	50		55		60
Gly Glu Gly Tyr Ala Asp Asp Gly Arg Glu Val Trp Asn Glu Arg Val					
65	70		75		80
Ala Asp Tyr Asn Ser Glu Ser Asp Asp Glu Glu Leu Pro Gly Arg Asn					
	85		90		95
Lys Ala Ala Lys Arg Lys Arg Glu Glu Asp Lys Gln Arg Lys Glu Arg					
	100		105		110
Ile Asn Asn Gly Ile Ser Lys Tyr Phe Asn Thr Gly Pro Ala Ala Ser					
	115		120		125
Ala Pro Lys Pro Lys Val Ser Leu Ile					
	130		135		

<210> 33163

<211> 548

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (511)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33163

Pro Val Val Thr Ala Glu Asp Glu Ala Phe Met Ala Asp Leu Leu Gly					
1	5		10		15
Glu Val Asp Thr Asn Val Val Ala Asn His Val Pro Ile Gln Asn Val					
	20		25		30
Ile Lys Ser Glu Thr Arg Arg Lys Val Arg Ile Leu Ser Pro Pro Leu					
	35		40		45
Ala Ser Lys Pro Arg Asn Glu Arg Ile Ser Gly Lys Asp Glu Asn Ser					
	50		55		60
Glu Pro Val Ser Gln Val Asn Gln Ala Pro Asp Leu Glu Phe Glu Asp					
65	70		75		80

Asp	Asp	Gly	Pro	Leu	Pro	Thr	Met	Asp	Asp	Gly	Asp	Val	Ala	Met	Ser		
				85					90					95			
Asp	Pro	Met	Pro	Ser	Ser	Pro	Ile	Ser	Lys	Val	Val	Glu	Arg	Lys	Ser		
			100					105					110				
Asn	Val	Asn	Val	Lys	Lys	Glu	Glu	Ser	Asp	Glu	Glu	Asp	Asn	Asp	Leu		
		115					120					125					
Met	Glu	Ile	Ala	Pro	Ala	Thr	Gly	Gln	Ser	Glu	Ala	Lys	Met	Thr	Ser		
	130					135					140						
Val	Asn	Met	Ala	Gly	Ser	Arg	Pro	Pro	Pro	Lys	Ile	Lys	Lys	Glu	Asn		
145					150					155					160		
Tyr	Thr	Thr	Pro	Ala	Ser	Ser	Ser	Pro	Ala	Lys	Ala	Pro	Val	Asp	Val		
			165						170					175			
Leu	Asn	Ala	Ser	Trp	Asn	Asp	Val	Arg	Ser	Lys	Leu	Asn	Val	Leu	Ser		
		180						185					190				
Ser	Pro	Ala	Thr	Glu	Ser	Arg	Thr	Phe	Gly	Lys	Leu	Arg	Ala	Gln	Asp		
	195						200					205					
Val	Ile	Glu	Glu	Asp	Gly	Ser	Leu	Arg	Met	Phe	Trp	Leu	Asp	Tyr	Thr		
	210					215					220						
Glu	Val	Asn	Gly	Ser	Leu	Cys	Leu	Phe	Gly	Lys	Val	Lys	Asn	Lys	His		
225					230					235					240		
Thr	Gly	Ser	His	Val	Ser	Ala	Phe	Val	Lys	Ile	Asp	Asn	Ile	Leu	Arg		
			245					250						255			
Lys	Leu	Phe	Phe	Leu	Pro	Arg	Glu	Tyr	Arg	Tyr	Lys	His	Gly	Arg	Val		
		260					265						270				
Thr	Asp	Glu	Glu	Val	Asp	Met	Lys	Asp	Val	Tyr	Gly	Glu	Val	Asp	Glu		
	275					280					285						
Ile	Met	Ser	Arg	Leu	Lys	Val	Gly	Met	His	Lys	Ile	Lys	Pro	Cys	Thr		
	290				295					300							
Arg	Lys	Tyr	Ala	Phe	Glu	Leu	Pro	Asp	Ile	Pro	Lys	Glu	Ala	Glu	Tyr		
305					310					315					320		
Leu	Lys	Leu	Leu	Tyr	Pro	Tyr	Asp	Lys	Pro	Ala	Leu	Pro	Met	Glu	Thr		
			325					330						335			
Lys	Gly	Glu	Thr	Phe	Ser	His	Val	Phe	Gly	Thr	Asn	Thr	Ser	Leu	Phe		
		340						345					350				
Glu	Gln	Phe	Val	Leu	Trp	Arg	Asn	Val	Met	Gly	Pro	Cys	Trp	Leu	Lys		
	355					360						365					
Ile	Glu	Asp	Ala	Asp	Phe	Thr	Ala	Val	Ser	Asn	Ala	Ser	Trp	Cys	Lys		
	370					375				380							
Phe	Glu	Cys	Gln	Val	Ala	Arg	Pro	Ala	Cys	Ile	Thr	Pro	Val	Pro	Asp		
385					390					395					400		
Thr	Gly	Asn	Leu	Glu	Pro	Pro	Pro	Leu	Thr	Leu	Met	Ser	Leu	Ala	Phe		
			405					410						415			
Arg	Thr	Gln	Leu	Asn	Val	Lys	Glu	Asn	Lys	Gln	Glu	Ile	Leu	Val	Ala		
		420						425					430				
Ser	Ala	Arg	Val	Tyr	Glu	Asn	Val	Ser	Leu	Thr	Asp	Thr	Thr	Pro	Pro		
	435						440						445				
Glu	Lys	Leu	Pro	Cys	Lys	Thr	Phe	Thr	Val	Met	Arg	Pro	Val	Gly	Ser		
	450					455					460						
Ser	Tyr	Pro	Leu	His	Phe	Glu	Ala	Glu	Thr	Arg	Lys	Gln	Arg	Gly	Thr		
465					470					475					480		
Phe	Met	Leu	Glu	Lys	Ser	Glu	Gln	Phe	Leu	Leu	Ser	Lys	Phe	Leu	Ala		
			485					490					495				
Leu	Phe	Glu	Lys	Met	Asp	Pro	Asp	Val	Leu	Met	Gly	His	Gln	Xaa	Gln		
		500						505					510				
Glu	Val	Asp	Leu	Ser	Ile	Phe	Leu	Ser	Arg	Leu	Lys	Glu	Lys	Lys	Thr		
	515						520						525				

13163

Pro Gly Trp His Arg Ile Gly Arg Leu Val Phe Thr Thr Gly Leu Glu
 530 535 540
 Gly Thr Ala Ile
 545

<210> 33164
 <211> 64
 <212> PRT
 <213> A.fumigatus

<400> 33164
 Arg Trp Ile Cys Gly Trp Lys Lys Glu Lys Asn Tyr Ile Gln Cys Leu
 1 5 10 15
 Asn Tyr Tyr Lys Gln Arg Lys Arg Lys Thr His Asp Phe Leu Pro Ser
 20 25 30
 Trp Ile Ser Phe Ile Ser Ile His Glu Ala Phe Ser Leu Phe Thr Leu
 35 40 45
 Phe Leu Ser His His Leu Leu Phe Ser Leu Phe Phe Tyr Thr Thr Phe
 50 55 60

<210> 33165
 <211> 101
 <212> PRT
 <213> A.fumigatus

<400> 33165
 Phe Leu Ile Phe Asn Ile Asn Tyr Ser Leu Glu Tyr Lys Ile Thr Ser
 1 5 10 15
 Leu Ile His Gln Leu Leu Tyr Thr Ile Lys Tyr Ile Tyr Leu Ile Gly
 20 25 30
 Leu Ala Ser Ile Ser Thr Val Ile Leu Val Leu Ser Leu Val Val
 35 40 45
 Phe Asn Pro Trp Leu Gly His Tyr Ile Thr Val Leu Ser Gly Tyr Leu
 50 55 60
 Val Asn Arg Pro Gln Ala Ser Ile Arg Tyr Ser Leu Gly Thr Ile Ser
 65 70 75 80
 Pro His Ser Gln Ser Ser Arg Leu Ala Glu Asn Ser Arg Asp Gly Ser
 85 90 95
 Gln Gly Val Thr Asn
 100

<210> 33166
 <211> 92
 <212> PRT
 <213> A.fumigatus

<400> 33166
 Leu Ala Ala Lys Ser Val Lys Ile Arg Leu Pro Lys Pro Phe Asp Gly
 1 5 10 15
 Thr Gln Thr Arg Leu Gln Ser Phe Leu Thr Gln Leu Asp Thr Tyr Ile
 20 25 30
 Gln Val Asn Lys Glu Lys Leu Thr Asn Glu Ala Asp Lys Val Leu Phe
 35 40 45
 Ala Thr Thr Tyr Leu Thr Gly Pro Ala Phe Asn Trp Phe Glu Pro Phe
 50 55 60
 Ile Arg Asp Tyr Gln Thr Asn Thr Val Lys Lys Gln Asp Asp Asn Thr

65 70 75 80
Lys Glu Ile Phe Ala Ser Tyr Ala Glu Phe Lys Lys
 85 90

```

<400> 33167
Ile Gln Ala Thr Lys Glu Leu Ser Thr Thr Ala Gly Arg Asp Gly Tyr
1          5          10          15
Asn Thr Thr Ser Ile Ile Thr Pro Lys Lys Val Asp Lys Gln Leu Arg
          20          25          30
Lys Leu Tyr Lys Glu Tyr Met Asn Leu Ser Asp Lys Glu Ile Lys Glu
          35          40          45
Glu Leu Glu Lys Glu Asp Pro Thr Asn Tyr Glu Ser Thr Asn Asn Asp
          50          55          60

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[illegible]

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<400> 33169
Arg Val Asp Thr Ser Ser Gly Asp Pro Gly Pro Glu Gln Asp Asp Gln
1          5          10          15
Phe Ile Leu Asp Asp Tyr Asp Ser Asp Ala Asp Glu Arg Met Ala Ser
20          25          30
Ser Lys Lys Leu Ser Asp Ile Ser Gly Leu Ser Thr Ser Thr Leu Glu
35          40          45
Leu Leu Glu Arg Phe Lys Glu Gln Phe Ser Ala Pro Val Glu Asp Glu
50          55          60
Ile Gly His Glu Asp Asp Val Lys Ile Phe Tyr Cys Ser Arg Thr
65          70          75          80
His Ser Gln Leu Ser Gln Phe Ser Ser Glu Leu Arg Arg Val Lys Met
85          90          95

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13165

Pro Ser Ser Met Pro Ala Glu Leu Ser Thr Ser Asp Ala Asn Thr Asp
 100 105 110
 Asp Val Gln Glu Arg Val Lys His Leu Thr Leu Gly Ser Arg Lys Asn
 115 120 125
 Leu Cys Ile Asn Pro Lys Val Met Ser Leu Gly Asn Ala Ala Ala Ile
 130 135 140
 Asn Glu Arg Cys Leu Glu Leu Gln Gln Pro Gly Ile Ala Ala Glu Lys
 145 150 155 160
 Arg Cys Pro Tyr Leu Pro Ser Lys Glu Asp Glu Gly Gln Ile Leu Gln
 165 170 175
 Phe Arg Asp His Thr Leu Ala Thr Ile Lys Asp Ile Glu Asp Met Gly
 180 185 190
 Lys Leu Gly Lys Arg Met Gly Ile Cys Pro Tyr Tyr Ala Ser Arg Ser
 195 200 205
 Val Leu Lys His Ser Glu Val Cys Phe Gly Tyr Ala Phe
 210 215 220

<210> 33170

<211> 198

<212> PRT

<213> A.fumigatus

<400> 33170

Thr Ser Gln Asn Val Leu Leu Lys Ala Gln Lys Ile Val Thr Leu Pro
 1 5 10 15
 Tyr Pro Leu Leu Leu Gln Arg Ser Ala Arg Asp Ala Leu Asp Leu Ser
 20 25 30
 Ile Lys Asn His Val Val Ile Ile Asp Glu Ala His Asn Leu Met Asp
 35 40 45
 Ala Ile Cys Asn Ile His Ser Val Thr Ile Arg Leu Ser Gln Leu Gln
 50 55 60
 Thr Ala Leu Leu Gln Leu Thr Thr Tyr Ala His Lys His Lys Ala Arg
 65 70 75 80
 Leu Lys Gly Lys Asn Arg Ser Tyr Ile Ala Gln Ile Ile Arg Leu Val
 85 90 95
 Ser Ser Ile Arg Asp His Leu Arg Ser Ile Leu Gly Gln Asn Leu Pro
 100 105 110
 Ala Glu Gly Thr Val Asp Pro Ser Asp Leu Met Ala Gly Lys Gly Val
 115 120 125
 Asp Gln Ile Asn Pro Tyr Lys Leu Ser Arg Tyr Leu Gln Glu Ser Lys
 130 135 140
 Leu Ala Arg Lys Val Asp Gly Tyr Val Glu Phe Leu Lys Asn Lys Asn
 145 150 155 160
 Gln Gln Ser Asp Asp Lys Pro Ser Ser Pro Val Leu Phe Leu Val Gln
 165 170 175
 Ser Phe Leu Leu Ser Leu Met Asn Pro Ser Pro Arg Arg Pro Ile Phe
 180 185 190
 Leu Ser Lys Val Pro Arg
 195

<210> 33171

<211> 73

<212> PRT

<213> A.fumigatus

<400> 33171

13166

```

Met Ser Asp Tyr Arg Asn His Leu Phe Ser Tyr Ile Ala Pro Ser Arg
1           5           10           15
Leu Asp Thr Phe Ser Tyr Gly His Val Ile Pro Pro Glu Asn Leu Ile
           20           25           30
Ala His Thr Leu Val Asn Gly Val Leu Gly Ser Glu Phe Asp Phe Thr
           35           40           45
Tyr Asp Ser Arg Asp Ser Glu Lys Met Val Arg Asp Gly Phe Leu Ala
           50           55           60
Arg Gly Tyr Leu Asn Phe Gly Thr Phe
65           70

```

<210> 33172

<211> 78

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (19)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33172

```

Tyr Thr Lys Val Asn Leu Val Lys Arg Val Thr Gly Gly Thr Ser Ser
1           5           10           15
Ile Met Xaa Ser Gln Leu Gln Asn Phe Asn His Pro Tyr Ser Pro Tyr
           20           25           30
Asp Ile Gln Leu Gln Phe Met Arg Ala Leu Tyr Thr Cys Leu Glu Glu
           35           40           45
Gly Lys Val Ala Val Phe Glu Ser Pro Thr Gly Lys Phe Ser Phe Thr
           50           55           60
Cys Arg Leu Val Pro Ala Thr Asn His Met Leu Gln Ala Arg
65           70           75

```

<210> 33173

<211> 92

<212> PRT

<213> A.fumigatus

<400> 33173

```

Ile Leu Asp Leu Gly Arg Thr Val Ala Thr Leu Cys Gln Ala Ile Pro
1           5           10           15
Asp Gly Val Val Ala Phe Phe Pro Ser Tyr Asp Tyr Leu Ser Arg Ile
           20           25           30
Val Ala Ile Trp Arg Lys Pro Leu Glu Gly Glu Lys Gly Glu Thr Ile
           35           40           45
Leu Ser Leu Ile Glu Arg Glu Lys Ser Ile Leu Tyr Glu Gly Arg Asp
           50           55           60
Met Gly Pro Lys Thr Asp Asp Leu Leu Gln Glu Tyr Thr Arg Thr Ser
           65           70           75           80
Leu His His Gly Ala Gly Arg Ser Ser Ala Ser Gln
           85           90

```

<210> 33174

<211> 140

<212> PRT

<213> A.fumigatus

<400> 33174

Ala Met Pro Pro Ala Pro Pro Ala Ala Ser Ser Tyr Pro Gln Ser Pro
 1 5 10 15
 Ala Arg Ile Cys Cys Pro Pro Arg Pro Ala Ala Pro Asp Pro Ser Thr
 20 25 30
 Thr Lys Lys Thr Thr Asp Ser Phe Leu Ser Pro Pro Ala Ser Ser Thr
 35 40 45
 Pro Thr Arg Thr Leu Gln Pro Pro Pro Val Pro Glu Thr Asp Thr Ser
 50 55 60
 Leu Gln Pro Ser His Ser Arg Thr Thr Arg Ala Ser Ser Ala Gly Asn
 65 70 75 80
 Ala Pro Pro Pro Pro Pro Ala Leu Ala Pro Ala Pro Pro Phe Ser Leu
 85 90 95
 Leu Ser Ser Val Arg Val Gly Gly Arg Ser Leu Arg Arg Leu Leu Gln
 100 105 110
 Gly Cys Trp Pro Pro Pro Leu Pro Leu Ser Leu Asn Trp Asp Gly Gly
 115 120 125
 Ser Arg Gln Ile Thr Arg Arg Met Pro Arg Ser Gly
 130 135 140

<210> 33175

<211> 316

<212> PRT

<213> A.fumigatus

<400> 33175

Lys Ala Val Asp Gly Arg Ser Gly Tyr Thr Thr Leu Pro Leu Leu Arg
 1 5 10 15
 Leu Glu Ala Tyr Leu Ser Ser Ala Ala Arg His Pro Ser His Arg Pro
 20 25 30
 Leu Arg Lys Glu Asp Leu Pro Arg Phe Lys Gly Met Glu Ser Phe Lys
 35 40 45
 Gly Asp Arg Leu Cys His Ser Ser Asp Phe Thr Glu Ala Asn Pro Ala
 50 55 60
 Ser Lys Gly Lys Lys Ala Val Val Val Gly Ser Gly Asn Ser Gly His
 65 70 75 80
 Asp Ile Ala Gln Glu Phe Tyr Glu Lys Gly Tyr Asp Val Ser Met Val
 85 90 95
 Gln Arg Ser Thr Thr Cys Val Ile Ser Ser Glu Ser Ile Val Glu Ile
 100 105 110
 Gly Leu Lys Ser Leu Tyr Gly Glu Gly Gly Pro Pro Thr Glu Asp Ser
 115 120 125
 Asp Leu Tyr Leu Trp Ser Ile Pro Thr Glu Leu Phe Lys Ala Gln Gln
 130 135 140
 Ile Lys Val Thr Ala Ala Gln Asn Gln Arg Asp Ala Ala Ile Leu Gln
 145 150 155 160
 Ala Leu Asp Lys Ala Gly Phe Lys Leu Asp Met Gly Ser Asp Asn Ala
 165 170 175
 Gly Leu Leu Met Lys Tyr Leu Ser Arg Gly Gly Gly Tyr Tyr Ile Asp
 180 185 190
 Val Gly Gly Ser Arg Leu Ile Ala Asp Gly Lys Ile Lys Val Lys Gln
 195 200 205
 Gly Gln Glu Ile Thr Glu Val Leu Pro His Gly Leu Gln Phe Ala Asp
 210 215 220
 Gly Thr Gln Leu Glu Ala Asp Glu Ile Val Phe Ala Thr Gly Tyr Gln

13168

225		230		235		240
Asn Met Lys Thr Gln Ala Arg Ala Ile Phe Gly Asp Glu Val Ala Asp						
	245		250		255	
Arg Ile Asp Ser Val Trp Gly Phe Asn Glu Glu Gly Glu Met Arg Thr						
	260		265		270	
Ile Trp Arg Gln Ser Gly His Pro Gly Phe Trp Phe Met Gly Gly Asn						
	275		280		285	
Leu Ala Leu Cys Arg Tyr Tyr Ser Arg Leu Leu Ala Leu Gln Ile Lys						
	290		295		300	
Ala Leu Val Glu Gly Ile Thr Thr His Gly Ala Lys						
305		310		315		

<210> 33176
 <211> 221
 <212> PRT
 <213> A.fumigatus

<400> 33176	
Thr Gly Pro Met Thr Val Pro Ile Thr Asp His Pro Ser Lys Asp Arg	
1	5 10 15
Ile Ala Pro Gly Ser Val Asn Val Pro Val Gly Lys Phe Pro Gln Thr	
	20 25 30
Ala Ser Ser Thr Ser Val Asp Ala Ala Lys Leu Ala Ser Glu Ala Ile	
	35 40 45
Asp Gln Leu Asn Ser Ala Leu Lys Gln Lys Asn Tyr Lys Ala Val Ser	
	50 55 60
Asp Leu Phe Leu Glu Asp Ala Tyr Trp Arg Asp His Leu Gly Leu Ser	
65	70 75 80
Trp Asp Tyr Arg Thr Ile Lys Gly Arg Glu Asn Ile Ala Ser Phe Leu	
	85 90 95
Glu His Ser Thr Arg Leu Val Gln Val Glu Ile Asp Gln Ser Ser Pro	
	100 105 110
Phe Arg Ala Pro His Val Gly Pro Ile Asp Ala Phe Gly Asp Val Thr	
	115 120 125
Gly Val Glu Phe Phe Thr Thr Phe Ala Asn Asp Val Gly Asn Gly Arg	
	130 135 140
Gly Val Val Arg Met Ala Glu Lys Asp Gly Val Trp Lys Ile Phe Thr	
145	150 155 160
Ile Phe Thr Thr Leu Gln Glu Leu Lys Gly His Asp Glu Ala Val Asn	
	165 170 175
Ala Ser Arg Pro Leu Gly Val Gln His Gly Ala Gln Val Gly Ile Lys	
	180 185 190
Asn Trp His Asp Met Met Thr Ser Asp Phe Glu Phe Glu Glu Lys Thr	
	195 200 205
Pro Val Val Leu Val Val Gly Met Ser Pro Phe Leu Asp	
	210 215 220

<210> 33177
 <211> 123
 <212> PRT
 <213> A.fumigatus

<400> 33177	
Gln Asp Leu Val Leu Thr Trp Lys Gly Ala Gly Gln Ser Gly Leu Thr	
1	5 10 15
Val Ala Ala Arg Leu Lys Met Leu Asn Val Asp Thr Leu Val Ile Asp	

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<210> 33178
<211> 66
<212> PRT
<213> A.fumigatus
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<210> 33179
<211> 182
<212> PRT
<213> A.fumigatus
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<400>	33179															
Pro	Leu	Pro	Leu	Lys	Ala	Glu	Pro	His	Val	Asn	Glu	Gln	Ala	Pro	Gln	
1				5					10					15		
Ser	Leu	His	Asp	Pro	Thr	Val	Tyr	Thr	Arg	His	Gln	His	Pro	Val	Arg	
			20					25					30			
Leu	Ala	Arg	Gly	Pro	Phe	Pro	Arg	Arg	Asp	Ser	Asp	Pro	Asn	Pro	Pro	
		35					40					45				
Ala	Gly	Gly	Lys	Val	Ala	Gly	Pro	Arg	Glu	Ala	Asp	Pro	Ile	Gln	Gln	
	50					55					60					
Arg	Ile	Asp	Glu	Ile	Val	Ser	Gln	Asn	Met	Pro	Ser	His	Gly	Ala	Pro	
65				70					75						80	
Pro	Val	Pro	Pro	Pro	Ser	Gly	Ala	Gly	Ala	Arg	Ile	Pro	Asn	Arg	Arg	
				85					90				95			
Asn	Ser	Val	Asp	Arg	Arg	Gly	Pro	Asp	Arg	Tyr	Arg	Gly	Tyr	Glu	Asp	
			100					105					110			
Pro	Ala	Arg	Arg	Arg	Arg	Ser	Ser	Phe	Gly	Arg	Arg	Ser	Gln	Ser	Phe	
		115					120						125			
Glu	Glu	Gln	Pro	Pro	Pro	Leu	Pro	Gly	His	Pro	His	His	Gln	Pro	Leu	
	130					135					140					
Pro	Pro	Pro	Pro	Pro	Pro	Pro	Asp	Ile	Pro	Gln	Pro	Pro	Pro	Pro	Pro	

13170

145 150 155 160
 Pro Pro Ser Gln Thr Gln Gln Ala Ala Gln Glu Asp Glu Gly Gly Gly
 165 170 175
 Ser Glu Glu Gly Glu Leu
 180

<210> 33180

<211> 551

<212> PRT

<213> A.fumigatus

<400> 33180

Leu Phe Glu Arg Cys Arg Arg Cys Pro Arg Pro Gly Phe Phe Ala Glu
 1 5 10 15
 Asp Met Asp Ala Pro Met His Asp Asp Leu Ser Val Gly Asp Val Phe
 20 25 30
 Ala Pro Gln Ala Asp Met Ser Gln Pro Cys Asn Asp Ala Leu Leu Gly
 35 40 45
 Asn Asn Pro Asp Thr Arg Phe Cys Met Ser Gly Gly Ser Pro Ser Arg
 50 55 60
 Lys Gln Val Pro Val Thr Lys Asp Val Asn Glu Val Asp Pro Phe Pro
 65 70 75 80
 Ala His Asn Leu Asn Ile Glu Ala Leu Ser Gly Arg Pro Asp Arg Arg
 85 90 95
 Lys Lys Lys Lys Lys Cys Gln Thr Ser Glu Ala Pro Arg Ala Ile Ser
 100 105 110
 Thr Val Arg Gly Phe Thr Pro Leu Ala Ser Gly Asp Glu Asp Ser Asp
 115 120 125
 Phe Ser Thr Thr Ser Ala Lys Ala Arg Pro Ser Ser Arg Ala Ala Ala
 130 135 140
 Tyr Ala Glu Ser Asp Gly Asn Ser Pro Met Val Gln Pro Ala Gly Cys
 145 150 155 160
 Gly Val Ser Ala Leu Lys Leu Gln Leu Asp Ser Leu Ser Leu Ser Gly
 165 170 175
 Ser Gly Ser Ala Gln Ala Ala Gln Ser Asp Leu Cys Ser Glu Thr Pro
 180 185 190
 Ser Asn Ala Ser Val Cys Ser Asp Ser Asp Gln Thr Glu Val Leu Thr
 195 200 205
 Ser Tyr Glu Val Pro Leu Glu His Asp Phe Val Ser Ser Asp Ala Ala
 210 215 220
 Ala Glu Glu Thr Ser Ala Ser Leu Pro Gly Ala Gln Asp Val Arg Thr
 225 230 235 240
 Gln Leu Cys Arg Lys Met Thr Thr Thr Asp Phe Glu Pro Leu Leu Trp
 245 250 255
 Leu Gly Lys Gly Ser Phe Gly Thr Val Leu Leu Val Arg His Ala Leu
 260 265 270
 Thr Gly Lys Leu Tyr Ala Gln Lys Gln Phe Arg Lys Ala Ser Leu Thr
 275 280 285
 Val His Lys Lys Leu Val Glu Gln Thr Lys Thr Glu Arg Ala Ile Leu
 290 295 300
 Glu Ser Val Asn Arg His Pro Phe Val Val Lys Leu Phe Tyr Ala Phe
 305 310 315 320
 Gln Asp His Glu Lys Leu Tyr Leu Ile Leu Glu Tyr Ala Gln Gly Gly
 325 330 335
 Glu Leu Phe His His Leu Ala Met Glu Arg Met Phe Asp Glu Asp Ala
 340 345 350

13171

Ala Ala Phe Tyr Met Ala Glu Met Val Leu Ala Leu Glu His Leu His
 355 360 365
 Gln Asn Val Gly Val Ile Tyr Arg Asp Leu Lys Pro Glu Asn Cys Leu
 370 375 380
 Leu Asp Arg Asp Gly His Leu Leu Leu Thr Asp Phe Gly Leu Ser Lys
 385 390 395 400
 Ile Ala Val His Asp Asp Asp Arg Cys Asn Ser Ser Leu Gly Thr Ile
 405 410 415
 Glu Tyr Met Ala Pro Glu Val Ile Gln Gly Lys Pro Tyr Gly Lys Ala
 420 425 430
 Cys Asp Trp Trp Ser Leu Gly Ala Leu Gly Tyr Asp Leu Leu Thr Gly
 435 440 445
 Ser Pro Pro Phe Lys Ala Asn His Asn Ala Lys Leu Gln Glu Lys Asn
 450 455 460
 Arg Gln Ala Glu Ala Gln Arg Cys Pro Ile Ser Leu Val Arg Met Pro
 465 470 475 480
 Lys Thr Phe Ser Pro Ala Cys Cys Ala Arg Asn Leu Pro Ser Asp Ser
 485 490 495
 Val Thr Thr Cys Pro Arg Thr Cys Arg Pro Ser Arg Thr Ile Ala Ser
 500 505 510
 Ser Ala Arg Leu Thr Gly Lys Arg Ser Ser Val Ala Arg Leu Leu Pro
 515 520 525
 Leu Ser Ser Leu Trp Ser Arg Thr Arg Leu Trp Arg Arg Thr Ser Leu
 530 535 540
 Leu Thr Leu Pro Pro Phe Arg
 545 550

<210> 33181

<211> 198

<212> PRT

<213> A.fumigatus

<400> 33181

Val His Gly Ser Arg Ser His Ser Arg Gln Thr Val Arg Gln Ser Leu
 1 5 10 15
 Arg Leu Val Val Thr Trp Arg Thr Arg Val Arg Ser Thr Tyr Arg Leu
 20 25 30
 Pro Ala Leu Gln Gly Gln Pro Gln Arg Gln Ala Ala Gly Lys Lys Ser
 35 40 45
 Ser Ser Arg Ser Ser Thr Leu Pro Tyr Phe Leu Gly Pro Asp Ala Lys
 50 55 60
 Asp Phe Leu Thr Arg Leu Leu Arg Lys Glu Pro Ser Lys Arg Leu Gly
 65 70 75 80
 Tyr His Met Pro Lys Asp Val Gln Thr Ile Lys Asn His Arg Phe Phe
 85 90 95
 Arg Lys Ile Asp Trp Lys Ala Leu Glu Arg Arg Glu Val Ala Pro Pro
 100 105 110
 Ile Leu Pro Val Val Thr Asp Pro Ala Leu Ala Glu Asn Phe Ser Ala
 115 120 125
 Asp Phe Thr Thr Leu Pro Leu Ser Pro Val Val Thr Ser Asn Gly Phe
 130 135 140
 Asp Asp Tyr Tyr Ser Leu Arg Gln Arg Pro Ser Gln Arg Ala Met Ser
 145 150 155 160
 Thr Gly Pro Asp Gly Met Ser Cys Asp Asn Asp Pro Phe Gly Gly Phe
 165 170 175
 Ser Phe Val Ala Ser Ser Ser Leu Leu Asp Asn Asn Gly Val Gly Ile

180
Thr Thr Gln Cys Tyr Arg
195

185

190

<210> 33182
<211> 300
<212> PRT
<213> A.fumigatus

<400> 33182
Pro Leu Arg Thr Ile Gly Asp Asp Ala Glu Lys Ser Arg Leu Glu Glu
1 5 10 15
Leu Ala Gln Ser Tyr Asp Pro Val Pro Tyr Trp Thr Asn Ile His Pro
20 25 30
Tyr Leu Leu Ser Thr Ile Gln His Gly Leu Arg Ala Ser Lys Ala Leu
35 40 45
Pro Thr Pro Ser Asp Gly Asp Gln Thr Lys Gly Glu Pro Ser Leu Asp
50 55 60
Lys Tyr Leu Leu Ala Glu Ile Pro Ala Thr Thr Leu Arg Arg Asn Ala
65 70 75 80
Arg Ser Pro Arg Glu Pro Val Asn Asp Phe Leu Ala Arg Leu Pro Pro
85 90 95
Ser Thr Thr Lys Glu Arg Asp Val Gly Pro Trp Ile Tyr Val Thr Asn
100 105 110
Pro His Arg Lys Ile Asp Pro Asp Glu Gln Ala Ile Ala Lys Leu Val
115 120 125
Arg Glu Gly Thr Glu Leu Leu His Arg Phe Glu Asp Gln Lys Ala Glu
130 135 140
Leu Glu Ala Glu His Asp Arg Ser Arg Ser Lys Ser Lys Ala Ala Leu
145 150 155 160
Thr Arg Arg Leu Asn Pro Leu Arg Arg Thr Leu Glu Gln Asp Ile Phe
165 170 175
Ala Leu Ala Arg Arg Thr Gly Val Val Ser Gly Lys Trp Met Met Phe
180 185 190
Ile Asn Ala Asp Gln Val Asp Lys Tyr Trp Glu Ala Val Ala Thr Gly
195 200 205
Thr Val Ser Gly Lys Leu Gly Asp Ala Ala Lys Val Ala Thr Asp Asp
210 215 220
Gly Thr Gly Arg Pro Arg Leu Ile Ala Ile Tyr Thr Lys Asp Tyr Ala
225 230 235 240
Asp Arg Gln Asp Val Lys Arg Val Leu Glu Gly Met Val His Leu Gly
245 250 255
Leu Val Lys Thr Asp Asp Arg Pro Ile Tyr Tyr His Cys Asp Ala Cys
260 265 270
Thr Tyr Leu Arg Ile Leu Ser Asp Asn Pro Tyr Gly Leu Lys Ala Ser
275 280 285
Met Ala Ser Thr Arg Asn Val Leu Ala Arg Lys Glu
290 295 300

<210> 33183
<211> 77
<212> PRT
<213> A.fumigatus

<400> 33183
Arg Tyr Met Gly Thr His Pro Leu Ile Phe Thr Glu Ile Gly Ile Pro

13173

1		5		10		15									
Phe	Asp	Met	Asp	Asp	Arg	His	Ala	Tyr	Lys	Thr	Gly	Asp	Tyr	Ser	Gly
		20						25					30		
Gln	Val	Ser	Ala	Met	Asp	Ala	Asn	His	Phe	Ala	Ile	Glu	Gly	Ser	Thr
		35					40					45			
Ala	Asn	Gly	Phe	Thr	Leu	Trp	Leu	Tyr	Thr	Thr	Ser	Val	Ser	Ile	Ser
	50					55					60				
Met	Leu	Pro	Arg	Thr	Lys	Ser	Phe	His	Thr	Phe	Ser	Asn			
65					70					75					

<210> 33184

<211> 218

<212> PRT

<213> A.fumigatus

<400> 33184

Arg	Ile	Arg	Gln	Asn	Asn	His	Glu	Trp	Gly	Asp	Asn	Trp	Asn	Gly	Glu
1			5						10					15	
Asp	Leu	Ser	Ile	Tyr	Ser	Val	Asp	Asp	Leu	Glu	Leu	Pro	Ser	Gly	Lys
			20					25					30		
Leu	Leu	Ala	Phe	Glu	Asn	Glu	Ser	Gln	Arg	Asp	Pro	Gln	Ser	Pro	Ala
		35					40					45			
Tyr	Ser	Glu	Ser	Gln	Arg	Asn	Thr	Glu	Ser	Tyr	Arg	Val	Gly	Pro	Arg
	50					55					60				
Asp	Leu	Lys	Gln	Ala	Leu	Gln	Ala	Pro	Ser	Ile	Ser	Ser	Glu	Ile	Ser
65					70					75				80	
Gln	Ser	Ser	Gln	Asp	Lys	Leu	Gly	Phe	Arg	Ala	Ala	Glu	Ala	Trp	Val
			85					90						95	
Arg	Pro	Ser	Pro	Ile	Ile	Thr	Asn	Gly	Gln	Ile	Leu	Gln	Tyr	Gly	Phe
		100						105					110		
Asp	Leu	Lys	Ser	Cys	Val	Phe	Ser	Met	Arg	Leu	Leu	Gly	Glu	Lys	Lys
		115					120					125			
Gly	Leu	Gly	Gln	Glu	Ala	Ala	Thr	Glu	Ile	Phe	Leu	Pro	Asp	Phe	His
	130					135					140				
Phe	Pro	Asp	Thr	His	Thr	Val	Val	Ala	Val	Ser	Ala	Gly	Glu	Trp	Thr
145					150					155					160
Ile	Asp	Tyr	Pro	Glu	Ile	His	Ser	Val	Lys	Phe	Gln	Arg	Leu	Arg	Trp
			165						170					175	
Trp	His	Pro	Glu	Gly	Asp	His	Asn	Ile	Lys	Ile	Gln	Gly	Val	Lys	Arg
		180						185					190		
Lys	Pro	Gly	Asp	Pro	Thr	Val	Ser	Gly	Glu	Glu	Leu	Ser	Tyr	Leu	Glu
		195					200					205			
Gln	Cys	Gln	Gly	Gly	Gly	Cys	Ser	Val	Met						
	210					215									

<210> 33185

<211> 326

<212> PRT

<213> A.fumigatus

<400> 33185

Asn	Thr	Glu	Met	Glu	Pro	Leu	Pro	Asp	Ala	Ile	Ser	Ala	Asp	Ala	Ser
1				5					10					15	
Gln	Phe	Ser	Cys	Thr	Leu	Ser	Asn	Gly	Ala	Ile	Gln	Cys	Ser	Glu	Leu
			20					25					30		
Gln	Gly	Gln	Arg	Glu	His	Arg	Ile	Ala	Ile	Asp	Asp	Val	Ile	Cys	Ile

35 40 45
 Leu Pro His Ala Ser Gln Asp Gly Lys Lys Tyr Asn Met Leu Tyr Leu
 50 55 60
 Arg Asn Gly Arg Asn Glu Ala Thr Ser Val Gln Pro Gly Asp Cys Gly
 65 70 75 80
 Ser Ser Leu Thr Ser Val Gln Leu Val Ser Pro Pro Ser Thr Leu Leu
 85 90 95
 Ser Arg Tyr Phe Cys Ala Glu Leu Pro Gln His Leu Lys Pro Ser Val
 100 105 110
 Asp His Ala Ile Asp Ile Tyr Val Ile Ile Ser Ile Pro Ser Gly Thr
 115 120 125
 Gly Lys Ala Lys Asn Phe Phe Lys Asn Ile Leu Gln Pro Phe Leu Ala
 130 135 140
 His Ile Gly Leu Thr Glu Tyr Glu Val His Glu Thr Gln Ser Ala Arg
 145 150 155 160
 Ser Ile Leu Glu Leu Cys Gln Ser Arg Leu Ile Pro Arg Ala Lys Leu
 165 170 175
 Gly Val Ala Gln Thr Ile Ile Leu Leu Ser Gly Asp Gly Gly Leu Asn
 180 185 190
 Asp Ile Val Asp Ser Phe His Gly Ala Val Gly Val Pro Ile Val Pro
 195 200 205
 Pro Ile Val Ala Leu Ile Pro Met Gly Thr Gly Asn Ala Met Ala Ser
 210 215 220
 Ser Leu Gly Leu Leu Ser Arg Pro Ala Glu Gly Leu Thr Val Leu Leu
 225 230 235 240
 Lys Gly Ser Pro Lys Pro Ile Pro Thr Leu Val Ala Asn Phe Ser Pro
 245 250 255
 Gly Ala Gln Tyr Val Thr Asp Glu Gly His Thr Leu Ile Pro Met Leu
 260 265 270
 Asp Ser Ser Lys Thr Lys Ser Ser Val Asn Ser Ile His Gly Val Val
 275 280 285
 Val Ala Ser Trp Gly Leu His Ala Ala Leu Val Ala Asp Ser Asp Thr
 290 295 300
 Ser Glu Tyr Lys Arg Phe Gly Gly Arg Glu Val Pro Asp Gly Ser Gln
 305 310 315 320
 Gly Ala Pro Phe Pro Phe
 325

<210> 33186

<211> 173

<212> PRT

<213> A.fumigatus

<400> 33186

Leu Leu Thr Val Thr Leu Leu Asn Ile Lys Gly Leu Gly Ala Glu Arg
 1 5 10 15
 Phe Gln Met Ala Ala Lys Glu Leu Leu Phe Pro Ser Ser Gly Ala Glu
 20 25 30
 Thr His Arg Tyr Lys Gly Asn Ile Thr Leu Phe Arg Ser Asn Val Ala
 35 40 45
 Thr Asn Glu Asn Ser Val Asp Thr Leu Glu Phe Gly Glu His Met Tyr
 50 55 60
 Val Leu Ala Thr Leu Val Pro Arg Leu Glu Lys Asp Phe Leu Ile Ser
 65 70 75 80
 Pro Glu Ser Val Ala Leu Asp Gly Arg Leu Arg Ile Ile Arg Phe Gly
 85 90 95

13175

Ala Val Ser Ala Glu Lys Ala Met Gln Leu Met Ser Leu Ala Tyr Asp
 100 105 110
 Gly Gly Arg His Val His Glu Ser Ser Val Leu Tyr Thr Glu Leu Glu
 115 120 125
 Gly Phe Arg Ile Asp Phe Arg Glu Ala Glu Gln Lys Trp Arg Arg Val
 130 135 140
 Cys Ile Asp Gly Lys Ile Val Ile Ile Glu Glu Asp Gly Trp Met Glu
 145 150 155 160
 Val Leu Lys Gly Ser Thr Gly Arg Val Asn Ile Leu Val
 165 170

<210> 33187

<211> 372

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (314), (329)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33187

Thr Ile Gly Leu Asn Asp Lys Leu Gly Val Ser Gly Phe Cys Ile Met
 1 5 10 15
 Asp Ser Ser Cys Leu Tyr Ser Lys Glu Leu Gln Leu Ala Cys Leu Thr
 20 25 30
 Val Gln Arg Ala Ala Leu Leu Thr Lys Lys Leu Leu Glu Ala Val Asp
 35 40 45
 Lys Gly Ser Phe Asp Lys Ser Asp Ser Thr Pro Val Thr Ile Ala Asp
 50 55 60
 Phe Ala Ala Gln Ala Leu Ile Ile Gly Ala Ile His Lys Ala Phe Pro
 65 70 75 80
 Glu Asp Glu Phe Val Gly Glu Glu Asp Ser Lys Ala Leu Arg Ala Asp
 85 90 95
 Pro Glu Leu Leu Glu Arg Thr Trp Glu Leu Ala Ser Thr Thr His Leu
 100 105 110
 Asp Asp Lys Asp Ser Glu Ala Leu Leu Tyr Ala Pro Lys Ser Lys Glu
 115 120 125
 Glu Met Leu Asp Leu Ile Asp Leu Gly Ala Arg Gly Arg Cys Ser Leu
 130 135 140
 Glu Asn Arg Ala Trp Val Leu Asp Pro Val Asp Gly Thr Ala Thr Phe
 145 150 155 160
 Met Gln Gly Gln Gln Tyr Ala Val Cys Leu Ala Leu Val Glu Asn Gly
 165 170 175
 Cys Gln Lys Val Gly Val Leu Gly Cys Pro Asn Leu Asn Leu Ala Thr
 180 185 190
 Gly Arg Leu Arg Glu Asp Val Val Asp Arg Asp Gly Tyr Gly Ser Gln
 195 200 205
 Val Phe Ala Val Ala Gly Gln Gly Ala Trp Ile Arg Lys Met Gly Arg
 210 215 220
 Gly Gly Leu Leu Ala Ala Glu Ser Ile Pro Gln Arg Pro Gln Ile Thr
 225 230 235 240
 Asp Pro Lys Asp Leu Asp Phe Val Asp Cys Gly Ser Ala Thr Ser Ser
 245 250 255
 Asn Thr Ser Leu His Ala Arg Val Ala Ser Lys Leu Gly Ala Pro Trp
 260 265 270

13176

Pro Tyr Ser Thr Asp Leu Trp Ala Ala Gln Leu Arg Tyr Ile Ala Ile
 275 280 285
 Ala Val Gly Gly Cys Asn Ala Leu Ile Lys Ile Pro His Lys Ala Leu
 290 295 300
 Tyr Arg Ser Lys Ile Trp Asp His Ala Xaa Gly Met Leu Ile Ala Glu
 305 310 315 320
 Glu Val Gly Val Lys Val Thr Asp Xaa Ala Gly Asn Pro Val Asp Cys
 325 330 335
 Ser Leu Gly Arg Thr Leu Ala Gly Cys Tyr Gly Met Ile Val Ala Pro
 340 345 350
 Pro Ser Ile His Glu Arg Ile Val Glu Ala Val Lys Glu Val Met Gln
 355 360 365
 Glu Gln Thr Lys
 370

<210> 33188

<211> 283

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (258)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33188

Tyr Tyr Pro Ser Leu Asn Met Ile Gly Asn Pro Gly Ala Leu Leu Val
 1 5 10 15
 Asp Met Lys Lys Gln Gly Leu Phe Glu Ser Phe Asp Lys Ser Tyr His
 20 25 30
 Pro Thr Tyr Gly Ile Gly Thr Met Ser Gly Asn Ile Tyr Asp Thr Ser
 35 40 45
 Trp Ile Ser Met Val Arg Lys Pro Thr Glu Gly Gly Ser Val Trp Ala
 50 55 60
 Phe Pro Ala Ala Phe Gln Ala Ile Leu Gln Glu Gln Ser Pro Cys Gly
 65 70 75 80
 Ser Trp Gly Gly Ser Thr Ser Glu Leu Asp Cys Ile Val Ser Thr Leu
 85 90 95
 Ala Ala Leu Leu Ser Leu Gln Lys His Ala Gly Asp Cys Cys Glu Met
 100 105 110
 Glu Phe Glu Asp Leu His Ser Arg Ile Leu Lys Ala Lys Gln Phe Leu
 115 120 125
 Gln Thr Ala Leu Lys Gly Leu Asp Arg Leu Leu Ala Thr Cys Thr Leu
 130 135 140
 Ser Val Gly Leu Glu Val Arg Leu Pro Glu Ile Leu Asp Leu Leu Glu
 145 150 155 160
 Leu Glu Gly His Thr Phe Asn Phe Asp Arg Thr Tyr Leu Thr Glu Ile
 165 170 175
 Gln Ser Lys Lys Leu Ser Lys Ile Asn Leu Glu Thr Ile Phe Asn Gly
 180 185 190
 Pro Gln Ser Ser Leu Leu His Ser Leu Glu Ala Val Ile Arg Lys Val
 195 200 205
 Asp Ile Lys Ala Leu Gly His Gln Lys Val Leu Gly Ser Met Leu Ala
 210 215 220
 Ser Pro Ser Ala Thr Ala Ala Tyr Leu Met Tyr Ser Pro Val Trp Asp
 225 230 235 240

13177

Asp Glu Ala Glu Glu Tyr Ile Arg His Ala Ile Ser Lys Gly Ala Gly
 245 250 255
 Arg Xaa Ser Gly Leu Val Ala Ala Gly Tyr Pro Thr Thr Val Phe Glu
 260 265 270
 Trp Ala Trp Val Gly Leu Asn Met Leu Trp Gln
 275 280

<210> 33189
 <211> 99
 <212> PRT
 <213> A.fumigatus

<400> 33189
 Thr Val Pro Asn Ala Cys Ala Asp Ala Asp Asp Thr Ala Lys Ala Leu
 1 5 10 15
 Val Pro Leu Met Leu Gln Gly Thr Arg Tyr Ser Pro Gln Ala Leu Val
 20 25 30
 Asp Arg Phe Glu Arg Glu Asn His Phe Ala Thr Tyr Leu Tyr Glu Thr
 35 40 45
 His Thr Ser Val Ser Thr Asn Ser Asn Val Leu Ala Ala Leu Val Leu
 50 55 60
 Leu Ser Thr Asp Gly His Tyr Gln Pro Gln Ile Glu Lys Cys Ile Arg
 65 70 75 80
 Tyr Leu Cys Glu Ala Trp Phe Asn Cys Asn Gly Met Leu Lys Asp Lys
 85 90 95
 Trp Val Cys

<210> 33190
 <211> 302
 <212> PRT
 <213> A.fumigatus

<400> 33190
 Thr Leu Thr Phe Ser Ile Val Ser Pro Val Phe Pro Pro His Cys Phe
 1 5 10 15
 Ile Ile Pro Val Leu Leu Phe Phe Tyr Thr Leu Gly Ala Phe Ala Cys
 20 25 30
 Gln Val Ile Leu Gly Ser Arg Arg Ser Leu Gly Thr Met Ser Leu Gln
 35 40 45
 Val Lys Asp Pro Arg Ser Arg Gly Arg Ser Lys Ser Pro Ser Gly Arg
 50 55 60
 Ile Arg Asp Arg Ser Lys Ser Arg Asp Ser Arg Leu Pro Ser Thr Ala
 65 70 75 80
 Pro Asp Ala Ala Arg Ser Ser Glu Arg Lys Tyr Leu Ala Thr Asp Ala
 85 90 95
 Arg Asp Asp His Leu Arg Ser Arg Ser Arg Gly Pro Arg Asp Ser Asn
 100 105 110
 Thr Ser Val Ser Ser His Arg Asn Arg Ser Arg Tyr Asp Val Ser Asp
 115 120 125
 Ser Ala Ser Glu Arg Asp Asp Arg Lys Asp Arg Tyr Leu Arg Ser Glu
 130 135 140
 Arg Arg Arg Asp His Tyr Tyr Gln Ser Asp Ser Gly Glu Ser Lys Leu
 145 150 155 160
 Ala Lys Arg Asp Asp Arg Lys Asp Tyr Ala Arg Ser Pro Asn Leu Arg
 165 170 175

Pro Val Thr Tyr Glu Ser Pro Ser Asp Asp Phe Tyr Ser Asp Thr Asp
 180 185 190
 Asp Glu Ala Leu Ala Tyr Gly Asp Ala Pro Ser Asp Leu Glu Arg Asp
 195 200 205
 Phe Tyr Gly Tyr Arg Lys Pro Ala Arg Ala Ser Ser Pro Arg Val Asp
 210 215 220
 Gly Pro Val Met Ser Gly Ala Leu Asn Gly Ala Pro Pro Ala Lys His
 225 230 235 240
 Asp Ser Ser Arg Ser Arg His Ala Ser Asp Glu Asp Ile Pro Gly His
 245 250 255
 His Pro Ser Tyr Ala Arg Pro Gly Gln Phe Gln Tyr Val Met Pro Ser
 260 265 270
 Gln Tyr Gly Gln Phe Gln Pro Ser Tyr Pro Pro Thr Ser Ser Ala Arg
 275 280 285
 Leu His His Gly Ala Gly Arg Thr Asp Gly Gly Thr Thr Val
 290 295 300

<210> 33191

<211> 189

<212> PRT

<213> A.fumigatus

<400> 33191

Gly Gly Cys Ser Asp Ile Val Ser Met Leu Leu Asn Lys Gly Ala Asp
 1 5 10 15
 Thr Asp Leu Gly Asp Asn Thr Gly Ser Thr Pro Leu His Thr Ala Val
 20 25 30
 Trp Lys Lys His Cys Lys Ile Thr Gln Leu Leu Leu Glu Arg Gly Ala
 35 40 45
 Ala Val Gly Ser Arg Asp Ser Tyr Gly Arg Thr Ala Leu Asp Ile Ala
 50 55 60
 Met Thr His Gly Ser Gln Arg Trp Leu Ser Leu Phe Leu Lys His Ala
 65 70 75 80
 Lys Ile Asn Ala Gln Asp Cys Gln Pro Leu His Pro Ala Ile Ser Leu
 85 90 95
 Asn Lys Thr Ala Val Val Arg Trp Leu Leu Glu Asn Gly Ala Asp Ile
 100 105 110
 Asn Arg Lys Asp Ser Arg Gly Gln Thr Pro Leu Leu Tyr Ala Met Leu
 115 120 125
 Glu Ala His Asp His Leu Ala Glu Leu Leu Leu Leu Tyr Asp Val Asp
 130 135 140
 Pro Asp Ala Glu Arg Tyr Asp Gly Leu Thr Pro Leu Lys Leu Ala Ser
 145 150 155 160
 Glu Ile Asn Arg Glu Asp Trp Ala Gln Lys Leu Arg Ala Lys Arg Asp
 165 170 175
 Lys His Lys Tyr Leu Ser His Ser Leu His Ser Thr Ser
 180 185

<210> 33192

<211> 176

<212> PRT

<213> A.fumigatus

<400> 33192

Arg Val Arg Ile Asp Ser Pro His Ala Asp Ser Lys Ala Lys Leu Gln
 1 5 10 15

13179

Phe Arg Ser Ile Gly Met Leu Leu Gly Tyr His Leu Leu Trp Ser Thr
 20 25 30
 Thr Ala Asn Val Val Gly Thr Ala Glu Gln Ala Asp Arg Leu Gln Lys
 35 40 45
 Leu Ile Ile Thr Asn Asn Leu Phe Val Gly Gly Ala Val Asn Pro Arg
 50 55 60
 Asp Asn Asp Leu Gln Ile Thr Ala Asp Gly Asp Ser Ile Val Phe Asn
 65 70 75 80
 Gly Phe Lys His Phe Asn Thr Gly Gly Val Val Ser Asp Leu Thr Val
 85 90 95
 Leu Glu Gly Val Leu Asp Gly Thr Gln Asp His Ile Phe Ala Val Val
 100 105 110
 Glu Thr Asn Gln Pro Gly Ile Gln Phe Ala Tyr Asn Trp Lys Asn Ile
 115 120 125
 Gly Leu Arg Leu Thr Glu Ser Gly Ser Val Lys Ile Glu Asn Val Arg
 130 135 140
 Ala Ser Trp Thr Asp Ala Leu Gly Trp Asp Ala Thr Thr Lys Arg Pro
 145 150 155 160
 Leu Ala Glu Ile Leu Thr Ile Pro Phe Ala Ser Leu Phe Leu Pro Thr
 165 170 175

<210> 33193

<211> 151

<212> PRT

<213> A.fumigatus

<400> 33193

Ser Asn Phe Pro Gln Met Ala Gln Ala Asn Val Pro Ala Thr Asp Pro
 1 5 10 15
 Ala Val Tyr Asp Ala Tyr Lys Glu Ile Trp Ala Ala Leu Pro Asp Ser
 20 25 30
 Ala Asp Ala Trp Leu Ala Arg Ala Arg Glu Val Ala Glu Val Leu Ala
 35 40 45
 Gln Asp Ala Ala Gln Arg Asp Gln Asp Asn Lys Ser Pro Arg Ala Glu
 50 55 60
 Val Ala Leu Leu Lys His Ser Gly Leu Leu Lys Leu Leu Gly Pro Lys
 65 70 75 80
 Lys Tyr Gly Gly Gly Glu Gln Pro Trp Arg Val Gly Tyr Lys Ala Ile
 85 90 95
 Arg Glu Val Ala Lys Gly Asp Gly Cys Val Leu Thr Val His Met Gln
 100 105 110
 Thr Val Lys Leu Asn Cys Asn Ser Gly Pro Leu Ala Cys Ser Leu Gly
 115 120 125
 Ile Ile Ser Ser Gly Arg Leu Gln Pro Met Trp Ser Ala Pro Pro Asn
 130 135 140
 Lys Pro Ile Val Cys Arg Asn
 145 150

<210> 33194

<211> 219

<212> PRT

<213> A.fumigatus

<400> 33194

Arg Arg Pro Cys Thr Pro Val Gln Arg Tyr Ser Leu Ser Ile Ser Ser
 1 5 10 15

Gly Ser Tyr Thr Tyr Asp Leu Asp Ser Val Cys Ile Ile Met Gly Ala
 20 25 30
 Met Ile Lys Ser Arg Arg Cys Asn Leu Pro Cys Tyr Ser Asp Ser Gly
 35 40 45
 Thr Arg Ser Met Asn Asn His Ala Gln Pro Trp Tyr Trp Thr Gly Ile
 50 55 60
 Ala Ile Asn Leu Gly Gln Ile Met Gly Leu His Arg Asp Pro Asp Ala
 65 70 75 80
 Val Lys Phe Asn Pro Ser Ile Thr Gly Arg Arg Arg Ala Leu Trp Arg
 85 90 95
 Arg Leu Trp Trp Ser Cys Phe Phe Arg Asp Arg Trp Leu Gly Leu Thr
 100 105 110
 Leu Gly Arg Pro Leu Arg Ile Asn Leu Leu Asp Cys Asp Leu Pro Met
 115 120 125
 Pro Ser Thr Ala Asp Val Met Ser Asp Leu Ser Glu Val Ser Pro Ser
 130 135 140
 Val Ala Ser Leu Phe Ile Pro Glu Asp Leu Ala Gln Leu Ser Glu Tyr
 145 150 155 160
 Trp Ile Leu Leu Leu Arg Leu Ser Lys Ile Leu Gly Asp Ala Leu Thr
 165 170 175
 Leu Ile Tyr His Pro Lys Arg Pro Asn Pro Thr Ile Glu Gln Phe Glu
 180 185 190
 Ser Leu Glu Ser Asp Leu Pro Thr Leu Glu Ile Pro His Glu Cys Cys
 195 200 205
 Ser Asp His Thr Glu Cys Ala Arg Phe Ala Val
 210 215

<210> 33195

<211> 250

<212> PRT

<213> A.fumigatus

<400> 33195

Asn Asn Ile Met Gln Lys Gly Leu Phe Pro Asp Cys His Ser Gln Gln
 1 5 10 15
 Thr Arg Asn Gln Pro Leu Arg Glu Ile Arg Ala Phe Pro His Pro Arg
 20 25 30
 Ser Ser Pro Arg Arg Asn Asp Arg Thr Ser Gln Val Gly Ser Gly Glu
 35 40 45
 Thr Val Gly Gly Arg Thr Val Ser Asn Leu Ala Arg Asp Met Ser Gln
 50 55 60
 Ser Gly Arg Ala Val Ser Glu Pro Thr Ala Ala Thr Gly Thr Thr Thr
 65 70 75 80
 Pro Tyr Ser Glu Gln Ser Arg Ile Glu Asp Glu Glu Arg Ser Ala Ala
 85 90 95
 Asp Phe Ala Thr Ala Ser Leu Ala Pro Arg Asp Ala Glu Ala Asn Asp
 100 105 110
 Met Pro Ile Tyr Thr Gly Leu Leu Ala Cys Met Thr Gln Cys Ile Arg
 115 120 125
 Arg Gln Leu Thr Val Val Gly Glu Ser Leu Gly Phe Ser Ala Val Leu
 130 135 140
 Asp Val Leu Ala Thr His Ala Val Pro Arg His Val Phe Arg Pro Ser
 145 150 155 160
 Ser His Pro Ser Leu Thr Ala Gln Asp Val Glu Tyr Leu Lys Phe Lys
 165 170 175
 Gly Cys Leu Thr Leu Pro Ser Ser Asp Ile Cys Arg Glu Leu Leu Arg

13181

180 185 190
 Ala Tyr Phe His His Val His Pro Ile Leu Pro Val Val Asp Ala Ala
 195 200 205
 Gln Val Leu Lys Phe Glu Gln Gln His Asp Arg Pro Ala Glu Trp Asn
 210 215 220
 Leu Leu Leu Leu Trp Ser Ile Phe Phe Val Ala Val Asn Val Ser Ile
 225 230 235 240
 Ser Pro Arg Glu Pro His His Leu Ala His
 245 250

<210> 33196
 <211> 135
 <212> PRT
 <213> A.fumigatus

<400> 33196
 Leu Leu Ile Leu Phe Thr Ala Val Ser Val Ala Val Val Ser Gln Cys
 1 5 10 15
 Ser Ala Ala Gly His Pro Ile Ser Val Pro Pro Val Gly Ala Ala Ser
 20 25 30
 Thr Thr Ala Ser Glu Thr Ala Thr Thr Thr Glu Ser Ser Thr Gln Thr
 35 40 45
 Thr Thr Gly Thr Ser Ser Thr Ala Ser Lys Thr Ser Ser Ser Ala Ala
 50 55 60
 Ser Ser Thr Pro Ser Ser Ser Ser Ala Ser Ser Ser His His His Ser
 65 70 75 80
 Ser Ser Ser Ala Leu Thr Thr Arg Thr Leu Thr Ser Thr Glu Pro Ser
 85 90 95
 Ser Gln Ser Thr Ser Ala Ser Ala Ala Thr Thr Thr Leu Ser Gly
 100 105 110
 Asn Ala Gly Ser Glu Lys Ala Asn Val Ala Gly Val Val Ala Val Ala
 115 120 125
 Ala Ala Ala Leu Tyr Leu Leu
 130 135

<210> 33197
 <211> 410
 <212> PRT
 <213> A.fumigatus

<400> 33197
 Pro Gly Phe Gly Arg Ile Thr Phe Gly Tyr Phe Arg Thr Ile Pro Arg
 1 5 10 15
 Lys Trp Glu Lys Trp Val Trp Lys Gly Gly His Arg Trp Arg Asn Leu
 20 25 30
 Lys Gly Gly Pro Arg Phe Glu Arg Ser Gln Thr Asp Leu Gly Ser Val
 35 40 45
 Gly Ala Phe Arg Gly Ala Thr Arg Trp Tyr His Gly Leu Ser Phe Phe
 50 55 60
 Arg Gly Ile Phe Tyr Leu Ile Phe Lys Trp Ser Ala Tyr Gly Leu Asp
 65 70 75 80
 Arg Ile Leu Asp Arg Ile Gly Ile Ser Ala Gly Pro Gln Trp Leu Lys
 85 90 95
 Val Leu Leu Gly Ser Arg Arg Arg Gly Gln Glu Gly Asn Ser Ser Ser
 100 105 110
 Arg Ala Glu Ser Leu Asp Phe Trp Ile Leu Thr Asp Glu Gly Glu Leu

13182

115		120		125
Glu Leu Pro Gly Asp Tyr	Glu Phe Asp Val Glu Lys Glu Met Arg Lys			
130	135	140		
Arg Glu Leu Ser Ile Ala Pro Lys Trp Glu Glu Ser Asp Glu Lys Arg				
145	150	155	160	
Leu Asp Glu Lys Leu Tyr Gly Trp Trp Arg Ala Gly Gly Ser Trp Gly				
165	170	175		
Asn Gln Asp Gln Ser Pro Asp Tyr Val Pro Ser Asp Ser Asp Asp Leu				
180	185	190		
Cys Asp Thr Thr Ser Val Val Ser Met Ser Thr Asn Ala Glu Ser Glu				
195	200	205		
Trp Glu Asp Glu Ser Asp Gly Arg Arg Thr Leu Ile Gln Arg Ser Pro				
210	215	220		
Tyr Pro Ala Gly Val Ser Arg Glu Ser Thr Pro Val Asp Glu Pro Leu				
225	230	235	240	
Val Asp Val Gly Ser Leu Ala Arg Leu Leu Asp Leu Arg Asp Gln Glu				
245	250	255		
Ser Arg His Glu Ala Arg Ile Leu Ala Ala His Leu Ala Ala Gly Arg				
260	265	270		
Asp Gly Arg Ile Met Thr Arg Arg Gln Phe Gln Gln Lys Met Glu Arg				
275	280	285		
Glu Arg Ala Gln Val Leu Leu Ser Ser Arg Phe Ser Gly Ser Ser Gly				
290	295	300		
Gln Gln Thr Gly Lys Glu Lys Arg Lys Pro Thr Pro Glu Glu Glu Ser				
305	310	315	320	
Glu Met Leu Glu Lys Phe Ile Leu Thr Arg Arg Ser Glu Ala Asn Arg				
325	330	335		
Ala Asn Pro Glu Ala Gln Thr Trp Glu Ser Gly Ala Ser Gly Leu Gly				
340	345	350		
Pro Asp Gly Pro Pro Cys Val Ile Cys Gln Ala Asn Pro Arg Ser Ile				
355	360	365		
Ile Thr Trp Pro Cys Arg Cys Leu Cys Ile Cys Glu Glu Cys Arg Val				
370	375	380		
Ser Leu Ala Met Asn Asn Phe Gly Ser Cys Val Thr Cys Arg Gln Glu				
385	390	395	400	
Val Gly Gly Phe Val Arg Leu Trp Val Pro				
405	410			

<210> 33198

<211> 117

<212> PRT

<213> A.fumigatus

<400> 33198

Trp Ser Arg Val Arg Lys Arg Gly Pro Tyr Asn Glu Lys Ala Val Met	
1	5
Leu Pro Ala Pro Arg Leu Asn Asp Gln Ala Tyr Cys Gln Tyr Ile Tyr	
20	25
Asn Asp Gly Gln Thr Ile Ala Ser Thr Asp Cys Glu Glu Glu Asp Gly	
35	40
Gln Pro Ala Asp His Pro His Arg Lys Ala Ala Tyr Thr His His Phe	
50	55
His Arg His Phe Thr Thr Val Ser Leu Asp Asp Leu Val Asn His Ile	
65	70
Val Gln Glu Pro Val Thr Thr Thr Val Glu Ile Ser Glu Gly Arg Gln	
85	90
	95

13183

Ser Arg Ile Gly Ser Gln Pro Ser Val Phe Ser Pro Ile Asp Ala Arg
 100 105 110
 Val Asn Val Met Glu
 115

<210> 33199
 <211> 221
 <212> PRT
 <213> A.fumigatus

<400> 33199
 Leu Gly Thr Ile Ile Gln Thr Leu Thr Pro Glu Leu His Pro Pro Asn
 1 5 10 15
 Ala Pro Ser Pro Ala Gly Leu Pro Ser Thr His Val Thr Ile Ile Ala
 20 25 30
 Leu Thr Ser Thr Ile Ala Arg Leu Leu Thr Gly Ser Leu Ser Asp Phe
 35 40 45
 Phe Ala Pro Pro Ala Thr His Leu Phe Pro Ala Asn Ile Glu Ser Gly
 50 55 60
 Arg Arg Ser Ser Gln Ser Gly Pro Thr Ala Lys Arg Pro Thr Leu Ser
 65 70 75 80
 Arg Leu Ala Phe Leu Leu Pro Ser Ala Leu Leu Leu Ser Leu Gly Tyr
 85 90 95
 Leu Leu Leu Ser Ser Pro Leu Pro Leu Gln His Pro Gly Leu Ser His
 100 105 110
 Val Thr Thr Ala Leu Ile Gly Leu Gly Tyr Gly Ser Ala Phe Ser Leu
 115 120 125
 Val Pro Ile Ile Ile Ser Val Val Trp Gly Val Glu Asn Phe Gly Thr
 130 135 140
 Asn Trp Gly Ile Val Ala Met Val Pro Ala Ala Gly Ala Ala Met Trp
 145 150 155 160
 Gly Val Ile Tyr Ser Arg Gly Tyr Gln Asp Ala Thr Asp Gly Gly Asn
 165 170 175
 Gly Ser Pro Asp Gly Gln Cys His Gly Trp Arg Cys Tyr Gly Phe Trp
 180 185 190
 Ala Val Gly Cys Thr Leu Ser Val Trp Val Ala Val Val Ala Trp Ile
 195 200 205
 Leu Ala Trp Arg Gly Trp Arg Arg Arg Gly Val Val Val
 210 215 220

<210> 33200
 <211> 468
 <212> PRT
 <213> A.fumigatus

<400> 33200
 Ala Trp Ser Phe Ser Leu Gly Ala Gly Ser Ile Thr Ala Phe Ser Leu
 1 5 10 15
 Tyr Gly Pro Leu Phe Leu Thr Arg Leu His Tyr Ser Gln Leu Gln Val
 20 25 30
 Asn Ala Val Ser Ile Ala Ala Glu Ile Ser Met Tyr Leu Pro Val Pro
 35 40 45
 Leu Phe Gly Tyr Leu Cys Asp Arg Tyr Thr Pro Ser Pro Leu Ala Leu
 50 55 60
 Leu Ser Gly Leu Val Phe Gly Gly Gly Tyr Leu Leu Ala Ala Phe Ala
 65 70 75 80

Tyr Arg Ser Gly Pro Leu Pro Glu Ala Gly Gly Glu Gly Trp Pro Pro
 85 90 95
 Trp Val Met Val Val Ala Phe Val Ala Ile Gly Thr Ala Thr Ser Cys
 100 105 110
 Met Tyr Leu Ala Ala Val Thr Thr Cys Ala Lys Asn Phe Gly Arg Gly
 115 120 125
 Lys His Lys Gly Ile Met Leu Ala Val Pro Ile Ala Gly Phe Gly Leu
 130 135 140
 Ser Gly Met Trp Gln Ser Gln Val Ala Thr Tyr Leu Leu Cys Glu Arg
 145 150 155 160
 Arg Glu Asp Gly Ser Arg Gly Asp Val Asp Val Phe Arg Tyr Phe Leu
 165 170 175
 Phe Leu Ala Leu Phe Leu Phe Cys Leu Gly Val Ile Gly Thr Phe Gly
 180 185 190
 Leu Arg Ile Val Asp Glu Glu Glu Asp Gln Tyr Ile Asp Glu Ala Val
 195 200 205
 Glu Glu Leu Glu Arg Ser Gly Leu Leu Glu Glu Ser Glu Phe Phe Arg
 210 215 220
 Pro Arg Ser Glu Val Gln Ala Ala Tyr Gly Thr Phe Ser Asp Ala Ala
 225 230 235 240
 Asp Gly Asp Ala Pro Gly Pro Glu Leu Ser Leu Thr Leu Ser Glu Glu
 245 250 255
 Glu Arg Glu Ala Ala Arg Leu Glu Lys Glu Arg Glu Glu Glu Glu Arg
 260 265 270
 Arg Lys Lys Asn Trp Leu Leu Asn Phe Glu Thr Arg Leu Phe Leu Gln
 275 280 285
 Asp Gln Thr Met Trp Trp Leu Ala Val Gly Phe Phe Leu Val Thr Gly
 290 295 300
 Pro Gly Glu Ala Tyr Ile Asn Asn Val Ser Leu Leu Pro Thr Ile Pro
 305 310 315 320
 Val Asp Asp Lys Leu Ile Phe Leu Leu Val Arg His Asn His Ser Asp
 325 330 335
 Thr His Ala Gly Ile Thr Pro Ser Gln Cys Ser Ile Ser Ser Arg Pro
 340 345 350
 Ala Leu Tyr Thr Cys Asp Tyr Asn Ser Ala His Val Asn Tyr Ser Pro
 355 360 365
 Thr Ala Asp Arg Ile Ser Leu Gly Leu Leu Arg Ala Pro Gly His Ser
 370 375 380
 Ser Val Ser Gly Lys His Arg Lys Trp Pro Ser Leu Leu Ala Ile Arg
 385 390 395 400
 Ser Asp Arg Lys Glu Ala His Pro Val Ala Thr Arg Leu Pro Ser Ala
 405 410 415
 Phe Ser Pro Pro Pro Leu Pro Arg Leu Ser Pro Pro Leu Ile Pro Leu
 420 425 430
 Thr Pro Pro Ala Pro Arg Ser Phe Thr Arg Asn Asn Arg Ala Asp Arg
 435 440 445
 Pro Arg Leu Arg Gln Arg Leu Phe Pro Arg Pro His His His Leu Cys
 450 455 460
 Arg Met Gly Ser
 465

<210> 33201

<211> 563

<212> PRT

<213> A.fumigatus

<400> 33201

```

Ile Thr Thr Gly Arg Leu His Leu Glu Pro Tyr His Ser Lys Leu Gln
1      5      10      15
Thr Ala Ser Glu Tyr Met Leu Asn Ala Ala Val Ala Ala Pro Arg Cys
20      25      30
Phe Val Tyr Pro Thr Asp Arg Ala Ala Met Arg Leu Gly Phe Ala Leu
35      40      45
Arg Leu Ser Ser Pro Ala Pro Leu Phe Ser Thr Ala Pro Phe Arg Arg
50      55      60
Gln Leu His Ala Ser Gly Val Arg Ser Ile Glu Pro Val Ile Phe Arg
65      70      75      80
Asn Ser Leu Glu Lys Thr Leu Glu Ala His Arg Ser Ser Asn Arg Ala
85      90      95
Ser Leu Ile Arg Lys Val Ile Asn His Asp Cys Pro Ala Glu Thr Pro
100     105     110
Pro Pro Ile Leu Pro Leu Glu Asn Arg Ala Gly His Asp Gln Ser Ser
115     120     125
Gln Lys Ala Ser Ser Val Ser Asn Ala Glu Ser Glu Ser Pro Arg Ser
130     135     140
Ser Ala Pro Ala Arg Arg Ala Gln Arg Lys Ala Arg Ser Pro Ser Gln
145     150     155     160
Val Ala Thr Pro Gln Pro Gln Thr Thr Glu Tyr Pro Gln Leu Gln Trp
165     170     175
His Ala Asp Glu Thr Lys Gly Arg Pro Ala Gln Ser Pro Trp Leu Lys
180     185     190
Tyr Leu Thr Thr Asp Trp Lys Thr Pro Asp Ala Val Ser Arg Leu Asp
195     200     205
Ala Glu Ile Arg Ala Leu Glu Leu Tyr Met Thr Pro Thr Pro Ser Glu
210     215     220
Arg Thr Glu Ile Asp Arg Leu Val Ala Asp Met Gly Arg Leu Leu Ala
225     230     235     240
Gly Ile Val Pro Ser Pro Pro Gln Val Thr Gly Ser Trp Arg Thr Arg
245     250     255
Phe Ala Leu Ser His Ser Gly Leu Asp Phe Val Leu Pro Val Pro Asp
260     265     270
Ser Asp Arg Ser Thr Arg Asp Val Arg Lys Pro Ser Ala Thr Arg Pro
275     280     285
Lys Val Leu Gln Thr Tyr Lys Lys Leu Leu His Glu Val Lys His Ala
290     295     300
Leu Gln Gln Ser Pro Ser Phe Ala Glu Arg Val Arg Ile Ile Gly Ser
305     310     315     320
Arg Phe Pro Val Leu Ser Ala Ile His Arg Pro Thr Gly Arg Leu Leu
325     330     335
Gln Phe His Cys Gly Glu Gly Leu Pro Ala Ser Val Glu Tyr Ile Met
340     345     350
Asp Tyr Gln Ala Glu Tyr Pro Ser Ile Arg Pro Leu Tyr Val Thr Ala
355     360     365
Arg Leu Ile Leu Glu Ala Arg Gly Arg Tyr Gly Arg Thr Gln Met Ser
370     375     380
Ile Glu Ser Asp Ala Leu Val Met Leu Leu Val Ala Phe Leu Lys Met
385     390     395     400
Asn His Gly Arg Phe Gln Arg Pro Asp Cys Leu Gly Glu Gln Leu Ile
405     410     415
Ala Phe Leu Arg Ala Tyr Gly Ser Asp Ile Asp Leu Thr Thr Thr Gly
420     425     430
Val Ser Val Asp Pro Pro Ser Trp Phe Asn Ala Ser Thr Val Lys Arg

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      435              440              445
Ala Ser Ala Leu Tyr Ala Pro Asp Asp Leu Pro Ala His Leu Arg Gly
      450              455              460
Gln Arg Ser Leu Ile Ser Leu Lys Arg Thr Ala Ala Ala Arg Arg Asn
465              470              475              480
Leu Pro Ala Ala Ser Arg Leu Cys Val Gln Asp Pro Thr Asn Tyr Met
      485              490              495
Asn Asp Leu Gly Arg Ser Cys Val Arg Thr Leu Glu Leu Gln His Thr
      500              505              510
Phe Ser Leu Ala His Asp Arg Leu Gly Ala Ser Leu Lys Arg Trp Asp
      515              520              525
Asp Ser Glu Pro Ala Ala Asn Val Ser Ile Leu Thr Arg Ala Leu Gln
      530              535              540
Ala Asn Phe Ser Asp Phe Glu Asn Leu Arg Ala Lys Ser Leu Lys Leu
545              550              555              560
Asn Ala Thr

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<210> 33202

<211> 303

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (303)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33202

```

Val Trp Arg Asp Asp Ser Ala Trp Leu Gly Leu Leu Val Ala Asp Asn
1              5              10              15
Leu Ser Arg Arg Asp Gln Ser Leu Ser Leu Ile Met Ser Thr Leu His
      20              25              30
Arg Leu Glu Thr Lys Leu Glu His Ile Ser Ser Ala Val Arg Asp Asn
      35              40              45
Met Gln Pro Leu His Gln Gln Met Leu His Ala Leu Glu Gly Leu Arg
      50              55              60
Asp Ala Ala Thr Pro Lys Gln Ser Ser Arg Ala Ser Asp Lys His Pro
65              70              75              80
Ser Leu Ser Asn Ser Gln Ser Gln His Leu Thr Pro Glu Met Gly Gln
      85              90              95
Pro Asp Asp Phe Val Phe Asp Glu Arg Pro Asn Thr Thr Asp Ser Asn
      100              105              110
Gly His Val Ser Ile Ser Phe Ser Gln His Gly Val Ile Leu Trp Pro
      115              120              125
Gly Ala Arg Glu Ile Leu Pro Arg Lys Leu Leu Glu Ala His Glu Arg
      130              135              140
Leu Gly Arg Asn Tyr Val Ile Asp Leu Glu Met Lys Arg Pro His Leu
145              150              155              160
Pro Met Tyr Ile Tyr Pro Tyr Pro Pro Gln Ala Gly Glu Asp Trp Leu
      165              170              175
Glu Thr Leu Pro Leu Ala Met Ile Lys Gly Leu Ser Asp Ala Phe Phe
      180              185              190
Ala Thr Phe Asn Pro Phe Thr Pro Ile Met Asp Lys Thr Phe Tyr Phe
      195              200              205
Ala Phe Thr Leu Gly Ala Ala Ile Glu Ser Gly Phe Gly Tyr Thr Ile

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13187

210		215		220
Glu Thr Cys Leu Val	Leu Asn Val Met Ala	Leu Gly Cys Leu Ala Val		
225	230	235	240	
Leu Ser His Gln Glu	Gly Asn Tyr Pro Leu	Pro Gly Thr Arg Ser Ser		
	245	250	255	
Arg Phe Glu Pro Pro	Glu Trp Met Gly Val	Ile His Glu Glu Pro Pro		
	260	265	270	
Gly Leu Arg Phe Phe	Asn Glu Ala Arg Arg	Arg Ile Gly Phe Leu Met		
	275	280	285	
Cys Asp Asn Asp Ile	Gln Ser Cys Gln Phe	Tyr Leu Leu Ser Xaa		
290	295	300		

<210> 33203
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 33203
Lys Ala Lys Met Ser Ser Ile Arg Arg Val Ser Pro Thr Asp Leu Leu
1 5 10 15
Ser Leu Asn Leu Thr Asn Leu Asp Pro Leu Thr Glu Asn Tyr Asp Leu
20 25 30
Gly Phe Tyr Leu Asn Tyr Leu Met Arg Trp Pro Ser Leu Phe Ser Ala
35 40 45
Val Lys Asp Arg Thr Glu Gly Ile Val Gly Tyr Ser Thr Cys Lys Asn
50 55 60
His Arg Ser His Thr Thr Ser Ala Arg Pro Ser His Arg
65 70 75

<210> 33204
 <211> 222
 <212> PRT
 <213> A.fumigatus

<400> 33204
Trp Ser Phe Pro Ile Lys Ser Glu Asn Glu Phe His Pro Ala Arg Val
1 5 10 15
Pro Asn Gly Pro Pro Leu Pro Gln Pro His Gln Pro Arg Pro Ile Asp
20 25 30
Arg Lys Leu Arg Pro Gly Leu Leu Pro Gln Leu Pro His Ala Met Ala
35 40 45
Phe Thr Leu Gln Arg Cys Gln Arg Ser His Arg Arg His Ser Arg Ile
50 55 60
Gln Tyr Val Gln Lys Ser Ser Gln Pro Tyr His Leu Cys Lys Thr Leu
65 70 75 80
Ala Ser Leu Met Lys Ser Lys Thr Val Met Gly Lys Leu Glu Glu Gln
85 90 95
His Pro Ser Met Arg His Ser Glu His Tyr Thr Pro Trp His Gly His
100 105 110
Ile Thr Val Leu Thr Val Ala Pro Ala Trp Arg Arg Leu Gly His Ala
115 120 125
Arg Arg Leu Thr Glu Arg Leu Glu His Gly Ser Asp Ile Asn Asp Ala
130 135 140
Trp Phe Val Asp Leu Tyr Val Arg Ala Gly Asn Lys Val Ala Val Gly
145 150 155 160
Met Tyr Lys Gly Met Gly Tyr Ser Val Phe Arg Arg Val Val Asn Tyr

13188

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                165                170                175
Tyr Ser Asp Asp Pro Thr Gly Met Ser Asp Ser Gly Glu Asp Ala Phe
                180                185                190
Asp Met Arg Lys Pro Cys Ser Arg Asp Lys Asn Leu Gln His Ile Arg
                195                200                205
Glu Asn Gly Glu Glu Phe Leu Val Asn Pro Glu Asp Val Ser
                210                215                220

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<210> 33205
 <211> 88
 <212> PRT
 <213> A.fumigatus

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<400> 33205
Ala Ala Ile Met Asn Phe Ile Arg Leu Phe Thr Gly Gln Cys Phe Cys
1                5                10                15
Ser Met Phe Ala Asn Ala Asn Met Leu Tyr Lys Ser Val Asn Cys Leu
                20                25                30
Pro Pro Lys Ser Thr Leu Arg Thr Pro Tyr Leu Cys Ser Leu Glu Ala
                35                40                45
Phe Pro Leu Ile Gln Asp Thr Ile Gly Asn Asp Cys Phe Asn His Gly
                50                55                60
Arg Cys Gln Arg Cys Ser Glu Lys Pro Cys Cys Cys Phe Thr Arg Val
65                70                75                80
His Ala Glu Gly Ser Cys Ala Ala
                85

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<210> 33206
 <211> 455
 <212> PRT
 <213> A.fumigatus

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<400> 33206
Val Ala Cys Thr Pro Gln Glu Ser Ala Ser Phe Glu Val Phe Ser Cys
1                5                10                15
Leu Asp Leu Thr Val Tyr Asp Val Thr Lys Tyr Gln Lys Asp His Pro
                20                25                30
Gly Gly Ala Asp Val Leu Ala Glu Val Ala Gly Ser Asp Ala Thr Glu
                35                40                45
Ala Phe Glu Asp Ile Gly His Ser Glu Asp Ser Arg Glu Ile Leu Glu
                50                55                60
Glu Phe Leu Ile Gly Thr Leu Gln Gly Ala Lys Glu Tyr Val Ala Pro
65                70                75                80
Lys Lys Val Arg Ile Ile Ala Gln Ser Pro Val Glu Thr Pro Ala Ser
                85                90                95
Ser Ser Ala Thr Arg Tyr Val Gly Ala Val Thr Ser Leu Leu Gly Ala
                100                105                110
Val Ala Ser Leu Ile Tyr Val Tyr Arg Arg Gly Ser Leu Tyr Ser Leu
                115                120                125
Asp Thr Thr Gly Ser Leu His Arg Tyr Leu Ser Gln Pro Leu Arg Gly
                130                135                140
Val Arg Leu Pro Gln Gly Phe Ala Asn Gly Phe Leu Ala Ala Thr
145                150                155                160
Leu Ile Cys Ala Ala Ala Gly Gly Val Ile Ala Arg Lys Ala Ala Lys
                165                170                175
Leu Thr Lys Ile Glu Ser Gly Phe Leu Gln Tyr Pro Pro His Ile Lys

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<210> 33207
<211> 68
<212> PRT
<213> A.fumigatus
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[illegible]

```
<210> 33208
<211> 65
<212> PRT
```

<213> A.fumigatus

<400> 33208

```

His Gly Tyr Leu Ser Ser Asn Ser Pro Lys Gly Val His Lys Ile Gly
1           5           10           15
Arg Lys Leu Tyr Lys Met Ser Thr Val Phe Thr Val Val Ser Thr Ser
          20           25           30
Leu Lys Gly Arg Leu Phe Asp Ala Thr His Asp Val Leu Asp Ile Phe
          35           40           45
Leu Ile Asp Asp Tyr Thr Ala Phe Arg Ala Ser Gly Phe Gly Ala Gln
          50           55           60
Phe
65

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<210> 33209

<211> 127

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (4), (7), (19)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33209

```

Arg Pro Thr Xaa Glu Pro Xaa Gln Asn Leu Asn Pro Thr Pro Ala His
1           5           10           15
Ala Ser Xaa Gly Ser Phe Ser Val Ser Pro Pro Ser Gly Leu Asp Gly
          20           25           30
Ser Val Asn Gln Ser Thr Thr Phe Gly Tyr Glu Asp Ser Pro Tyr Leu
          35           40           45
Asp Leu Asn Phe Asp Phe Asp Leu Asp Phe Leu Gly Asn Glu Ser Leu
          50           55           60
Ile Gly Asp Leu Pro Pro Ser Leu Pro Ser Thr Glu Asp Tyr Glu Pro
          65           70           75           80
Gly Asp Lys Arg Lys Asp Ile Asp Gly Gln Val Asn Asp Lys Glu Asp
          85           90           95
Ser Gly Lys Lys Arg Arg Glu Ser Asp Glu Lys Ala Ala Lys Lys Pro
          100          105          110
Gly Arg Lys Pro Leu Thr Ser Glu Pro Thr Ser Val Cys Phe Leu
          115          120          125

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<210> 33210

<211> 71

<212> PRT

<213> A.fumigatus

<400> 33210

```

Asp Met Val Cys Leu Ile Ser Ser Leu Thr Ala Leu His Ser Leu Ala
1           5           10           15
Asn Tyr Leu Cys Arg Arg Asp Arg Leu Gln Ser Met Glu Lys Phe Arg
          20           25           30
Asn Gly Glu Ile Asp Val Asp Asn Leu Cys Ser Glu Leu Arg Thr Lys
          35           40           45
Ala Arg Cys Ser Glu Gly Gly Val Val Val Asn Gln Lys Asp Val Glu
          50           55           60

```

Asp Ile Met Gly Arg Val Lys
65 70

<210> 33211

<211> 411

<212> PRT

<213> A.fumigatus

<400> 33211

Pro Val Gly Gln Lys Arg Lys Ala Gln Asn Arg Ala Ala Gln Arg Ala
1 5 10 15
Phe Arg Glu Arg Lys Glu Lys His Leu Lys Asp Leu Glu Ala Lys Val
20 25 30
Glu Glu Leu Gln Lys Ala Ser Asp Asn Ala Asn Gln Glu Asn Gly Leu
35 40 45
Leu Arg Ala Gln Val Glu Arg Leu Gln Leu Glu Leu Lys Glu Tyr Arg
50 55 60
Lys Arg Leu Ser Trp Val Thr Ser Thr Ser Gly Leu Ser Pro Val Asn
65 70 75 80
Ala Ile Pro Gly Ala Tyr Ser Lys Gly Met Tyr Gly Leu Asn Asn Asn
85 90 95
Glu Phe Met Phe Asp Phe Pro Lys Phe Gly Asp Leu Pro Gly Ser His
100 105 110
Leu Phe Thr Asn Thr Gln Thr Ser Lys Ser Asn Gln Asn Lys Ala Lys
115 120 125
Asp Asn Pro Thr Ala Thr Pro Arg Ile Glu Ala Gln Val Pro Gly Val
130 135 140
Leu Asn Arg Asn Asp Leu Lys Ile Ser Ser Pro Asn Gly Leu Ser Asn
145 150 155 160
Gly Pro Ser Pro Ala Lys Ser Thr Pro Ser Gly Gln Thr Pro Asn Ser
165 170 175
Gln Thr Ser Thr Arg Pro Gly Ser Gly Thr Leu Asn Gly Ala Val Asp
180 185 190
Asn Asn Gly Ala Ala Arg Gly Tyr Gln Val Asn Ser Ser Tyr Ser Ala
195 200 205
Ser Thr Lys Lys Gln Ala Thr His Asp Thr Pro Ser Ser Asp Ser Pro Ser
210 215 220
Ser Ser Ser Asp Ser His Gln Ser Gln Leu Leu Ser Ser Asn Gly Thr
225 230 235 240
Ser Pro Glu Pro Ser Leu His Ser Pro Ala Val Lys Ala Thr Glu Ser
245 250 255
Ser Thr Pro His Ala Cys Thr Tyr Thr Thr Ile Asn Gly Glu Glu Ser
260 265 270
Phe Cys Ala Gln Leu Ser Met Ala Cys Gly Asn Ile Asn Asn Pro Ile
275 280 285
Pro Ala Val Arg Gln Asn Ser Glu Ser Ala Ser Asn Thr Pro Ser His
290 295 300
Ala Asn Ser Ser Asp Lys Ala Leu Gly Leu Asp Phe Phe Ala Gln Gln
305 310 315 320
Asn Gly Gly Gln Phe Asp Pro Val Leu Phe Gly Asp Trp Arg Glu Pro
325 330 335
Gln Asp Ala Ile Leu Ser Gln Asp Phe Gly Thr Phe Phe Asp Asp Ala
340 345 350
Phe Pro Leu Pro Asp Leu Gly Ser Pro Ser His Asn Phe Ser Glu Ala
355 360 365
Thr Lys Gln Pro Ala Ala Pro Lys Lys Asp Leu Ile Ala Glu Ile Asp

13192

370 375 380
 Ser Lys Leu Asp Glu Asp Glu Glu Val Val Pro Gly Glu Asp Lys Ser
 385 390 395 400
 Gln Met Leu Thr Cys Asn Lys Ile Trp Tyr Ala
 405 410

<210> 33212
 <211> 144
 <212> PRT
 <213> A.fumigatus

<400> 33212
 Thr Gln Arg Ala Gly Glu Ile Gly Arg Trp Gln Gly His Asn Thr Glu
 1 5 10 15
 Glu Gln Ala Asn Glu Glu Met Ile Ser Arg Ser Gly Leu Ser Thr Arg
 20 25 30
 Arg Gly Gly Leu Val Thr Gly Gly Cys Arg Cys Arg Cys Cys Arg Arg
 35 40 45
 Val Arg Gly Ala Ser Leu Ala Glu Ala Thr Thr Ala Thr Ser Ser Thr
 50 55 60
 Thr Ser Thr Ala Val Gly Thr Thr Ala Ala Ser Ala Ser Thr Glu Thr
 65 70 75 80
 Thr Thr Ser Ser Ala Ser Leu Ala Val Thr Ser Thr Ser Ala Leu Val
 85 90 95
 Ser Ala Leu Gly Cys Val Gly Ala Ser Val Ala Asn Leu Pro Gly Ala
 100 105 110
 Gly Ile Thr Thr Val Gly Lys Pro Arg Ser Ser Lys Asn Phe Arg Leu
 115 120 125
 Gly Leu Pro Ser Trp Pro Arg Gly Leu Gly Phe Leu Cys Ser Ala Gly
 130 135 140

<210> 33213
 <211> 462
 <212> PRT
 <213> A.fumigatus

<400> 33213
 Pro Thr Pro Arg His Met Tyr Ser Ser Gly Gly Ala Glu Tyr Gln Ser
 1 5 10 15
 Pro Pro Val Glu Gly Ala His Arg Thr Asp Val Gln Thr Glu Thr Thr
 20 25 30
 Glu Lys Ser Val Glu Leu Ser Gln Ala Thr Pro Asn Glu Asn Met Thr
 35 40 45
 Gln Glu Val Ala Glu Ala Gly Asp Val Val Met Glu Asp Ser Glu Ala
 50 55 60
 Val Ala Ser Ala Pro Ala Thr Glu Pro Ile Pro Leu Arg Glu Thr Met
 65 70 75 80
 Ala Glu Gln Ala Pro Ser Ser Ala Val Lys Pro Gln Pro Ala Asp Thr
 85 90 95
 Glu Arg Asp Ser Asn Glu Val Asp Leu Leu Gly Ser Leu Glu Ala Ser
 100 105 110
 Leu Gly Gly Ala Val Arg Asp Ala Gln Thr Gly Gly Ser Ala Ser Leu
 115 120 125
 Gln Thr Asp Ala Gln Val Gly Ala Ile Ala Ala Glu Ser Thr Ser Thr
 130 135 140
 Asn Ala Ala Arg Glu Val Gly Glu Thr Val Thr Asp Gly Pro Leu His

13193

145		150		155		160									
Gln	Pro	Ser	Glu	Asn	Val	Glu	Glu	Gln	His	Ala	Lys	Glu	Ser	Pro	Glu
		165		170		175									
Gln	Ile	Val	Glu	Ser	Ala	Pro	Val	Ala	Ala	Glu	Gln	Lys	Ala	Ile	Glu
		180		185		190									
Gln	Pro	Ser	Glu	Pro	Ser	Leu	Glu	Pro	Ser	Thr	Met	Ser	Ile	Pro	Glu
		195		200		205									
Gln	Pro	Glu	Gln	Glu	Met	Thr	Glu	Pro	Thr	Ala	Glu	Thr	Val	Ala	Asn
		210		215		220									
Asp	Thr	Pro	Glu	Glu	Leu	Asn	Gln	Glu	Ala	Pro	Thr	Ala	Gln	Pro	Arg
225				230		235									240
Glu	Ser	Thr	Tyr	Lys	Ala	Leu	Ser	Ala	Val	Asp	Thr	Glu	Pro	Val	Ala
		245		250		255									
Gln	Pro	Ala	Glu	Asn	Glu	Ala	Pro	Lys	Ser	Ala	Thr	Pro	Gln	Val	Ile
		260		265		270									
Glu	Pro	Ala	Thr	Asp	Ser	Ser	Ile	Val	Pro	Ser	Thr	Glu	Pro	Ser	Ala
		275		280		285									
Glu	Ala	Pro	Ser	Asp	Gln	Ser	Thr	Ala	Pro	Pro	Thr	Asp	Gln	Gln	Pro
		290		295		300									
Pro	Gly	Pro	Ser	Ser	Glu	Pro	His	Ala	Glu	Lys	Pro	Ala	Gln	Ala	Ser
305				310		315									320
Pro	Glu	Gln	Ser	Thr	Arg	Pro	Thr	Glu	Pro	Leu	Pro	Pro	Ser	Thr	Thr
		325		330		335									
Glu	Gln	Thr	Pro	Thr	Gln	Pro	Thr	Gln	Pro	Ser	Pro	Glu	His	Met	Ala
		340		345		350									
Pro	Pro	Thr	Glu	Ser	Leu	Thr	Pro	Pro	Ser	Pro	Glu	Phe	Glu	Gln	Ile
		355		360		365									
Glu	Glu	Ser	Ser	Gln	Asp	Gln	Pro	Gln	Asn	Gln	Ala	Pro	Val	Thr	Asp
		370		375		380									
Ile	Gln	Lys	Pro	Gln	Pro	Ala	Pro	Leu	Asp	Lys	Ser	Gln	Thr	Pro	Glu
385				390		395									400
Ala	Pro	Ser	Ala	Pro	Ala	Pro	Ser	Ala	Pro	Glu	Ile	Thr	Glu	Pro	Pro
		405		410		415									
Thr	Gln	Pro	Ser	Asp	Ala	Ala	Pro	Ser	Asp	Asn	Asp	Ala	Ala	Pro	Gln
		420		425		430									
Pro	Val	Ala	Glu	Gln	Glu	Lys	Ala	Glu	Pro	Glu	Ser	Lys	Glu	Gly	Gly
		435		440		445									
Glu	Glu	Ala	Pro	Ala	Pro	Ser	Thr	Ser	Asp	Leu	Thr	Ala	Ala		
		450		455		460									

<210> 33214

<211> 566

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (43)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33214

Arg	Val	Ala	Pro	Leu	Thr	Ser	Thr	Ala	Ile	Gly	Asn	Leu	Lys	Thr	Thr
1				5				10						15	

Leu	Cys	Glu	Glu	Met	Lys	Arg	Ala	Asp	Ala	Glu	Arg	Arg	Leu	Cys	Gly
		20						25					30		

Arg	Ser	Leu	Gly	Tyr	Ser	Ser	Leu	Arg	Leu	Xaa	Pro	Lys	Thr	Thr	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

	35						40					45						
Val	Arg	Pro	Ile	Leu	Asn	Leu	Arg	Arg	Arg	Asn	Leu	Gln	Pro	Gly	Trp			
	50					55					60							
Ala	Gly	Lys	Ala	Pro	Phe	Leu	Gly	Pro	Ser	Ile	Asn	Ser	Thr	Met	Thr			
65					70					75					80			
Pro	Ile	Phe	Asn	Val	Leu	Lys	Tyr	Glu	Thr	Ala	Arg	Asn	Pro	Ala	Ser			
				85					90					95				
Leu	Gly	Ser	Thr	Leu	Ser	Phe	Val	Gly	Glu	Ile	His	Thr	Arg	Leu	Lys			
			100					105					110					
Ser	Phe	Lys	Glu	Arg	Leu	Ser	Gln	Ser	His	Ser	Ser	Asp	Arg	Arg	Gln			
		115					120					125						
Arg	Leu	Tyr	Phe	Val	Lys	Leu	Asp	Ile	Gln	Ser	Cys	Phe	Asp	Thr	Ile			
	130					135					140							
Pro	Gln	Lys	Glu	Leu	Ile	Pro	Leu	Val	Glu	Ser	Leu	Phe	Ser	Glu	Glu			
145					150					155					160			
Gly	Tyr	Gln	Ile	Gly	Lys	His	Val	Glu	Val	Arg	Pro	Pro	Asp	Glu	Phe			
				165					170					175				
Ser	Ser	Met	Trp	Pro	Val	Gln	Glu	Ser	Gln	Gln	Ser	Lys	Ala	Leu	Arg			
			180					185					190					
Lys	Tyr	Val	Gly	Arg	Ala	Ala	Pro	Val	Ser	Lys	Ala	Gln	Ala	Leu	Thr			
		195					200					205						
Asp	Ala	Ile	Thr	Asp	Gly	Gly	Ile	Ser	His	Arg	Arg	Asn	Thr	Val	Phe			
	210					215					220							
Val	Asp	Thr	Pro	Ala	His	Lys	Glu	Tyr	Ser	Gly	Asp	Tyr	Leu	Leu	Asp			
225					230					235					240			
Leu	Leu	Asp	Glu	His	Ile	Arg	Tyr	Asn	Leu	Val	Lys	Val	Gly	Arg	Lys			
				245						250				255				
Tyr	Phe	Arg	Gln	Arg	Asn	Gly	Ile	Pro	Gln	Gly	Ser	Ile	Leu	Ser	Ser			
			260					265						270				
Val	Leu	Cys	Asn	Leu	Phe	Tyr	Ala	Gln	Met	Glu	Arg	Glu	Ser	Leu	Ser			
		275					280					285						
Phe	Leu	Asp	Pro	Ser	Glu	Ala	Val	Leu	Leu	Arg	Leu	Val	Asp	Asp	Phe			
	290					295					300							
Leu	Leu	Ile	Thr	Ile	Asn	Ser	Lys	Leu	Ala	Met	Arg	Phe	Leu	Gln	Val			
305					310					315					320			
Met	Leu	Lys	Gly	Gln	Pro	Lys	Tyr	Gly	Ile	Ser	Ile	Asn	Pro	Ala	Lys			
				325					330					335				
Ser	Leu	Val	Asn	Phe	Ser	Ala	Met	Val	Asp	Gly	Val	Gln	Ile	Pro	Arg			
			340					345					350					
Leu	Glu	Gly	Ser	His	Leu	Phe	Pro	Tyr	Cys	Gly	Ser	Leu	Ile	Asp	Thr			
		355					360					365						
Arg	Thr	Leu	Glu	Ile	Tyr	Arg	Asp	Gln	Asp	Arg	Ile	Leu	Glu	Gly	Thr			
	370					375					380							
Asp	Ser	Ala	Ala	Gly	Thr	Ile	Ser	Ser	Ser	Leu	Thr	Val	Glu	Phe	Thr			
385					390					395					400			

13195

				485					490					495
Tyr	Met	Cys	Leu	Val	Gln	Gln	Gln	Gln	Val	Arg	Tyr	Leu	Ala	Ala
			500					505					510	
Ala	Phe	Arg	Phe	Val	Leu	Gly	Arg	Lys	Gln	Thr	Lys	Tyr	Ala	Lys
		515					520					525		
Leu	Arg	Trp	Leu	Glu	Gln	Val	Trp	Lys	Ala	Ala	Arg	Pro	Gln	Ser
		530				535					540			
Gly	Lys	Ala	Ala	Arg	Leu	Ala	Glu	Val	Val	Arg	Asn	Gly	Asn	Ser
545					550					555				560
Phe	Ala	Ser	Trp	Arg	Phe									
				565										

<210> 33215
 <211> 65
 <212> PRT
 <213> A.fumigatus

<400> 33215
 Gly Ile Asn Glu Ser Pro Pro Thr Ala Trp Asp His Phe Thr Leu Leu
 1 5 10 15
 Ser Asp Tyr Ser Ile Pro Phe Arg Ser Thr Trp Lys Tyr Gly Ile Cys
 20 25 30
 Leu Pro Leu Ile Asp Val Tyr Ile Ala Pro Val Met Phe His Tyr Leu
 35 40 45
 Gln Pro Thr Ser Gly Phe Pro Trp Tyr Val Ser Leu Glu Arg Thr Met
 50 55 60
 Glu
 65

<210> 33216
 <211> 95
 <212> PRT
 <213> A.fumigatus

<400> 33216
 Phe Phe Leu His His Ala Thr Tyr Thr Tyr Leu Tyr Pro Asp Ser Ile
 1 5 10 15
 Ala Thr Leu Leu Leu Thr Leu Pro Phe Arg Leu Leu Asp Ser Cys Cys
 20 25 30
 Ile Gln Tyr Leu Ile Asp Cys Asn Ile Cys Asp Met Ser Ser Ile Glu
 35 40 45
 Lys His Lys Gly His Val Asp Asp Asp Ala Gln Leu Ala Ala Met Gly
 50 55 60
 His Lys Ala Glu Leu Asp Arg Asn Phe Ser Met Leu Tyr Glu Phe Phe
 65 70 75 80
 Phe Phe Leu Asp Asp Asp Lys Lys Ala Cys Leu Leu Ser Asp Tyr
 85 90 95

<210> 33217
 <211> 269
 <212> PRT
 <213> A.fumigatus

<400> 33217
 Pro Pro Gln Leu Leu His Ser Ala Ser Arg Pro Cys Phe Val Ala Leu
 1 5 10 15

Gly Ser Val Gly Phe Trp Ser Glu Phe Asp Phe Thr Ser Pro Leu Asn
 20 25 30
 Leu Lys Cys Ser Lys Met Val Phe Ala Leu Asp Thr Ala Thr Glu Ala
 35 40 45
 Asp Ala Pro Arg Ile Ala Asp Ile His Met Ala Ala Phe His Thr Asn
 50 55 60
 Gly Met Leu Leu Ala Gln Phe Pro Thr Pro Ala Val Arg Lys Gly Leu
 65 70 75 80
 Trp Thr Ser Leu Val Asp Lys Val Val Lys Glu Ile Arg Asp Pro Gln
 85 90 95
 Trp Glu Val Leu Val Ala Arg Glu Ala Asp Asp Arg Val Val Ser Phe
 100 105 110
 Ala Lys Trp Cys Leu Pro Leu Ser Glu Ser Thr Val Tyr Glu Glu Glu
 115 120 125
 Pro Trp Val Trp Pro Glu Gly Thr Asn Met Ala Ile Leu Asn Gly Trp
 130 135 140
 Ala Lys Lys Val Glu Gln Ala Ala Lys Glu Ile Met Gly Lys Thr Pro
 145 150 155 160
 Cys Tyr Arg Thr Phe Cys Ala Ile Arg Leu Ser Asp Cys Asp Cys Leu
 165 170 175
 His Pro Pro Gly Leu Ser Phe Ile Ala Thr Asp Pro Ser Tyr Ala Leu
 180 185 190
 Arg Gly Ala Gly Ser Leu Leu Val Asn Trp Gly Ile Glu Arg Ser Lys
 195 200 205
 Glu Glu Asn Ile Pro Ile Ala Leu Glu Ser Thr Leu Asp Ala Val Pro
 210 215 220
 Phe Tyr Gln Arg Leu Gly Phe Gln Thr Glu Ala Arg Ile Ser Met Pro
 225 230 235 240
 Leu Glu Gly Ile Gly Lys Asp Gly Glu Ala Ile Leu Tyr Glu Glu Glu
 245 250 255
 Cys Leu Val Tyr Arg Pro Lys Ala Arg Ile Ser Cys Glu
 260 265

<210> 33218

<211> 204

<212> PRT

<213> A.fumigatus

<400> 33218

Gly Ser Ser Met Ser Asp Asp Ser His Trp Leu Ser Leu Thr Ser Thr
 1 5 10 15
 His Cys Arg Ser Arg Ala Pro Arg Ser Arg Asn Phe Pro Phe Pro Ser
 20 25 30
 Asp Ile Ser Gly Thr Val Gly Asp Pro Gln Leu Ala Ile Ala Arg Thr
 35 40 45
 Ala Ser Phe Lys Met Gln Lys Ile Ile Arg Arg Thr Ala Leu Ala Arg
 50 55 60
 Asn Gln Ala Gln Arg Lys Ala Ile Arg Ala Ala Lys Ala Ala Glu Arg
 65 70 75 80
 Glu Glu Phe Lys Asp Ala Leu Arg Gln Arg Phe Ala Phe Asn Arg Ile
 85 90 95
 Glu Leu Asp Asn Val Arg Ala Glu Arg Ile Arg Arg Arg Glu Asp Trp
 100 105 110
 Leu Arg Gly Pro Leu Ala Pro Lys Arg Asp Ala Gly Leu Asp Ala Lys
 115 120 125
 Thr Phe Gly Ser Leu Ser Pro Gln Ala Met Asn Pro Pro Thr Ile Pro

13197

130 135 140
 Lys His Leu Arg Arg Lys Tyr Ile Asn Ile Ala Ala Gly Asp Arg Val
 145 150 155 160
 Cys Ile Met Lys Gly Arg Asp Lys Gly Lys Ile Gly Glu Val Ile Lys
 165 170 175
 Val Asp Pro Asn Asn Glu Thr Val Met Val Lys Asp Leu Asn Met Val
 180 185 190
 Arg Phe His Gly Cys Ile Arg Ser Met Ser Thr Tyr
 195 200

<210> 33219

<211> 75

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (26), (34)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33219

Val Asn Ile Asn Ile Phe Pro Leu Thr Glu Asn Thr Pro Gln His Val
 1 5 10 15
 Pro Leu Phe Glu Asp Ile Ala Lys Tyr Xaa Ser Ser Pro Leu Ala Arg
 20 25 30
 Gln Xaa Ile Pro Pro Thr Gln Pro Val Glu Ala Asp Glu Ala Pro Ala
 35 40 45
 Ala Lys Lys Arg Lys Leu Gln Asn Gly Asn Pro Ala Gly Asp Thr Gln
 50 55 60
 Val Phe Thr Arg Gly Phe Tyr Ser Ala Gln Arg
 65 70 75

<210> 33220

<211> 123

<212> PRT

<213> A.fumigatus

<400> 33220

Lys Met Arg Asn Gly Thr His Ser Val Trp Glu Val Glu Thr Pro Thr
 1 5 10 15
 Trp Ile Leu Ser Leu His Asn Pro Pro Phe Pro Pro Ser Val Leu Asp
 20 25 30
 Glu Leu Arg Asn Pro Phe Ser Lys Tyr Arg Thr Arg His Asp Pro Glu
 35 40 45
 Trp Val Glu Ser Lys Lys Met Glu Asp Leu Arg Lys Glu Tyr Leu Gln
 50 55 60
 Ser Arg Ser Leu Met Thr Pro Lys Gly Glu Phe Leu Ala Met Leu Arg
 65 70 75 80
 Ala Lys Lys Ala Glu Arg Met Ser Ala Arg Arg Asp Ala Asp Gly Asn
 85 90 95
 Tyr Ile Met Asp Asp Gln Thr Ala Gly Phe Ile Ala Asn Phe Met Gln
 100 105 110
 Gln Asn Ala Ala Lys Lys Ala Gly Ser Ser Ala
 115 120

<210> 33221

<211> 73
 <212> PRT
 <213> A.fumigatus

<400> 33221
 Phe Ile Val Met Ser Phe Ala Thr Ile Asn Arg Ser Ala Thr Lys Thr
 1 5 10 15
 Leu Ser Thr Ser Ile Pro Ala Ile Glu Asp Ala Phe Ala Ala Glu Pro
 20 25 30
 Ser Leu Lys Lys Arg Val Tyr Asp Ala Ile Gly Thr His Ile Pro Thr
 35 40 45
 Ile Phe Gly Phe Cys Gln Ala Ser Ala Val Thr Arg Cys Cys Cys Asp
 50 55 60
 Tyr Lys Leu Thr Leu Ile Phe Ser Leu
 65 70

<210> 33222
 <211> 293
 <212> PRT
 <213> A.fumigatus

<400> 33222
 Asn Ser Ala Tyr Ala Ala Val Val Asp Phe Ile Arg Lys Val His Arg
 1 5 10 15
 Thr Asn Ser Thr Glu Arg Leu Ala Lys Arg Asp Gly Leu Asp Asn Gln
 20 25 30
 Met Asp Ser Ile Thr Gln Leu Glu Ala Arg Ala Asn Glu Val Ala Ala
 35 40 45
 Ala Ala Arg Arg Leu Ala Glu Tyr Cys Arg Asn Ala Arg Val Asp Gly
 50 55 60
 Ala Cys Leu Pro Ala Val Val Pro Ser Glu Ala Pro Arg Ala Ile Arg
 65 70 75 80
 Glu Ile Gln Arg Leu Leu Ser Asn Val Asp His Leu Gln Ile Leu
 85 90 95
 Leu Thr Glu Pro Ala Asp Leu Val Gln Arg Leu Ala Val Gln Ser Gln
 100 105 110
 Leu Leu Ser Cys Leu Gln Trp Leu Gly Glu Phe Gln Val Leu Ala Cys
 115 120 125
 Leu Pro Leu Thr Asp Thr Val Ser Ile Ala Asp Leu Ala Arg Leu Ser
 130 135 140
 Gly Val Pro Glu Ala Gln Leu Ala Arg Ile Ile Arg Phe Thr Ile Thr
 145 150 155 160
 Ile Gly Phe Leu Gln Glu Pro Gln Arg Gly His Val Ala His Ser Pro
 165 170 175
 Leu Ser Ser Leu Phe Val Ser Arg Pro Ser Leu Arg Asp Ala Val Met
 180 185 190
 Phe Leu Ala Asp Ser Ala Ala Pro Thr Ala Leu Gln Met Ala Ser Ala
 195 200 205
 Thr Gly Arg Phe Gly Asp Thr Val Ala Ser Glu Thr Asp Thr Ala Tyr
 210 215 220
 Asn Ile Ala Phe Asp His Arg Asp Pro Phe Tyr Phe Ala Cys Glu Gln
 225 230 235 240
 Arg Pro Lys Leu Gln Arg Arg Trp Ser Ala Tyr Leu Gln Tyr Thr Gly
 245 250 255
 Gly Asp Ala Arg Asp Leu Thr Gln Gln Val Leu Ser Arg Val Asp Trp
 260 265 270

Phe Asn Leu Asn Asn Ala Cys Val Val Glu Val Asn Thr Ala Gly Met
 275 280 285
 Trp Ser Gln Trp Val
 290

<210> 33223

<211> 332

<212> PRT

<213> A.fumigatus

<400> 33223

Ile Leu Ser Asp Ala Ala Ser His Leu Val Leu Glu Arg Asn Trp Met
 1 5 10 15
 Arg Ser Pro Ala Ser Ser Arg Arg Ala Ser Ala Leu His Arg Leu Cys
 20 25 30
 Asp Ser Cys Arg Ala Cys Gly Leu Ser Lys Val Arg Cys Ser Lys Glu
 35 40 45
 Lys Pro Thr Cys Ser Arg Cys Arg Arg Arg Gly Thr Val Cys Glu Tyr
 50 55 60
 Val Val Thr Lys Arg Pro Gly Arg Lys Pro Asp Ser Arg Ser Glu Val
 65 70 75 80
 Glu Pro Glu Pro Gly His Leu Ser His Pro Leu Pro Ser Pro Glu Ser
 85 90 95
 Ser Thr Ala Ile Ser Gln Gly Asn Leu Pro Asp Pro Asp Ala Phe Asp
 100 105 110
 Pro Leu Phe Ala Leu Pro Glu Pro Phe Asp Ser Thr Pro Glu Leu His
 115 120 125
 Ser Gly Pro Leu Ser Thr Val Asp Ser Ser Leu Ser Ser Ala Leu Thr
 130 135 140
 Thr Trp Cys Pro Asp Phe Asp Asp Phe Phe Ser Phe Pro Val Ser Thr
 145 150 155 160
 Glu Asp Thr Leu Ser Gly Asp Arg Gly Ala Val Tyr Asp Gly Thr Ile
 165 170 175
 Lys His Pro Pro Asn Leu Arg Arg His Ser Glu Ser Pro Pro Ala Val
 180 185 190
 Pro Asp Asp Thr Ile Tyr Leu Phe Gly Lys Pro Val Asp Pro Ala Pro
 195 200 205
 Pro Asp Gln Ser Leu Pro Ala Thr Thr Thr Ile Gly Arg Arg Ala Ser
 210 215 220
 Pro Pro Ser Gly Arg Glu Ser Glu Ala Gly Ser Arg Arg Leu Ser Cys
 225 230 235 240
 Arg Cys Leu Ile Arg Ala Leu Asp Leu Leu Lys His Phe Glu Val Ile
 245 250 255
 Arg Arg Glu Ala Glu Ile Glu Ser Ser Leu Pro Ser Ile Asp Ala Val
 260 265 270
 Val Glu Val Asn Lys Gln Thr Thr Glu Ala Ile Thr Gly Met Leu Gln
 275 280 285
 Cys Pro Cys Ser Gln Lys Asp Gly Tyr Leu Leu Val Leu Leu Ala Leu
 290 295 300
 Ile Val Cys Lys Ile Leu Asp Arg Tyr Ala Ala Ala Ala Ile Pro Phe
 305 310 315 320
 Ser Pro Pro Arg Val Glu Gly Ser Thr Leu Cys Val
 325 330

<210> 33224

<211> 163

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (26), (40), (50), (66), (83)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33224

```

Leu Pro Gly Arg Gly Asp Phe Arg His Gly Arg Gly Ile Lys Phe Arg
1          5          10          15
Gln Asp Pro Arg Ile Val Leu Asn Gly Xaa Phe Ser Ala Pro Asp Ala
          20          25          30
Asp Ala Arg Lys Phe Thr Pro Xaa Thr Ser Ala Pro Ala Pro Ala Leu
          35          40          45
Pro Xaa Gly Ser Glu Ala Leu Gln Pro Lys Ala Ala Pro Ala Ser Thr
          50          55          60
Pro Xaa Ala Pro Ala Ser Ala Asp Ala Pro Thr Thr Asn Gly Val Lys
65          70          75          80
Ala Ala Xaa Glu Pro Asp Ala Asn Ser Thr Ala Ala Lys Ala Ile Ala
          85          90          95
Leu Val Ala Thr Glu Ala Gly Leu Gly Leu Ser Asp Leu Lys Asp Ser
          100          105          110
Ala Ser Phe Ser Ser Leu Gly Ile Asp Ser Leu Met Ser Leu Val Ile
          115          120          125
Ser Glu Lys Phe Arg Glu Thr Leu Gly Val Thr Val Thr Gly Ser Leu
          130          135          140
Phe Leu Glu Tyr Pro Thr Val Gly Asp Leu Lys Ser Trp Leu Leu Glu
145          150          155          160
Tyr Tyr Ser

```

<210> 33225

<211> 80

<212> PRT

<213> A.fumigatus

<400> 33225

```

Gln Pro Leu Glu Asp Asp Phe Arg Val Tyr Val Leu Pro Pro Ser Trp
1          5          10          15
Met Thr Trp Tyr Lys Met Gly Leu Ser Thr Tyr Asn Val Thr Ala Met
          20          25          30
Gly Ala Ala Tyr Gly Thr Ala Lys Ser Gly Ile Gly Ile Ser Gly Val
          35          40          45
Gly Thr Phe Arg Pro Asp Leu Ile Met Lys Val Cys Ser Phe His Pro
          50          55          60
Ala Ser Cys Gly Glu Ile Pro Ser Arg Cys Ser Asn Ser Leu Thr
65          70          75          80

```

<210> 33226

<211> 63

<212> PRT

<213> A.fumigatus

<400> 33226

```

His Phe Leu Glu Gly Val Arg Ala Tyr Met Gln Gln Ser Arg Val Tyr

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13201

```

1           5           10           15
Val Gly Met Ile Leu Ile Leu Ile Phe Gly Glu Val Leu Gly Leu Tyr
           20           25           30
Gly Phe Val Phe Pro Pro Ile Asp Asn Lys Asp Ile Ser Val Leu Thr
           35           40           45
Ala Val Arg Leu Ile Val Gly Leu Ile Leu Asn Ser Lys Ser Lys
           50           55           60

```

<210> 33227

<211> 303

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (146)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33227

```

Arg Asp Arg Met Ala Asp Leu Gly Gly Gln Gln Gly Arg Asn Tyr Arg
1           5           10           15
Pro Tyr Gly His Ala Ser Ser Phe Gln Arg Asp Ala Ala Phe Ser Glu
           20           25           30
Ile Phe Gly Gly Ala Pro Pro Pro Gly Arg Ser Gln Thr Met Asn Ser
           35           40           45
Gln Thr Pro Gln Phe Ser Gln Asp Arg Ala His Thr Met Ser Ser His
           50           55           60
Val Pro His Pro Gln Met Gln Arg Pro Pro Pro Gln Pro Ala Arg Gln
65           70           75           80
Gly Pro Asn Gly Tyr Thr Pro Ala Ala Pro Asn Gly His Tyr Gln Ala
           85           90           95
Tyr Pro Gly Pro Ala Ala Met Ala Gln Ser Ser His Asn Pro Pro
           100          105          110
Arg Pro Tyr Pro Gly Arg Tyr Val Tyr Pro Gln Pro Gln Arg Leu Asp
           115          120          125
Ser Arg Pro Ala Pro Gly Pro Gln Tyr Pro Asp Val Lys Gly Tyr Gly
           130          135          140
Arg Xaa Met Pro Pro Pro Ala Leu Asn Ser Asp Ala Tyr Arg Ser Arg
145          150          155          160
Ser Met Ala Arg Met Gly Gly Pro Pro Gly Tyr Gln Gln Pro Pro Leu
           165          170          175
Ser Ser Phe Asn His Thr Ser Ala Ser Ala Phe Arg Gln Gln Pro Tyr
           180          185          190
Ser Ser Thr Thr Pro Val Thr Asp Gln Gly Arg Val Val Pro Val Arg
           195          200          205
His Ala Asn Glu Arg Ala Met Ser Leu Thr Ser Tyr Ser Met Asp Arg
210          215          220
Asp His Ser His Thr Thr Gln Thr Gly Arg Val Ile Pro Thr Arg Arg
225          230          235          240
Gln Pro Ser Gly Pro Ser Gln Pro Pro Thr Arg His Phe Glu Glu Glu
           245          250          255
Pro Ala Ile Val His His Val Asn Gly Arg Pro Arg Pro Pro Ser Asp
           260          265          270
Gly Ser Thr Asn Ser Arg Val Met Ser Met Ala Ser Thr Ile Val Pro
275          280          285
Asp Arg Met Leu Thr Thr Gly Val Lys Gly Ser Ala Leu Cys Val

```

290

295

300

<210> 33228

<211> 474

<212> PRT

<213> A.fumigatus

<400> 33228

Ile	Thr	Ser	Thr	Thr	Leu	Lys	Lys	Asn	His	Ile	Leu	Ser	His	Ile	Thr
1				5				10						15	
Met	Gly	Ser	Ile	Thr	Pro	Ser	Phe	Ser	Ser	Leu	Pro	Arg	Thr	Ser	Glu
			20					25					30		
Ser	Tyr	Phe	Ser	Lys	Arg	Gly	Gln	Ser	Ala	Leu	Asp	Gln	Gly	Arg	Lys
		35					40					45			
Arg	Ile	Thr	Trp	Asp	Val	Ile	Ser	Asp	Met	Trp	His	Pro	Gln	Arg	Asn
	50					55					60				
His	Ser	Gly	Ile	Leu	Ser	Ile	Gly	Met	Ala	Glu	Asn	Thr	Leu	Leu	His
65				70						75				80	
Asp	Thr	Leu	Leu	Glu	Tyr	Ile	His	Ala	Asn	Ile	Arg	Leu	Ser	Ala	Glu
				85					90					95	
His	Leu	Thr	Tyr	Asn	Asn	Gly	Ser	Met	Gly	Ser	Asn	Ala	Leu	Arg	Lys
			100					105					110		
Ala	Val	Ser	His	Phe	Leu	Asn	Arg	Gln	Phe	Lys	Pro	Phe	Arg	Pro	Ile
		115					120					125			
Glu	Pro	Ser	His	Val	Leu	Val	Thr	Asn	Gly	Cys	Ser	Ser	Ala	Ile	Glu
	130					135					140				
His	Leu	Ser	Trp	Thr	Phe	Leu	Asn	Pro	Gly	Asp	Ala	Val	Leu	Leu	Ala
145				150						155				160	
Met	Pro	Tyr	Tyr	Ser	Thr	Phe	Ile	Ala	Asp	Leu	Ser	Leu	Arg	Pro	Glu
			165						170					175	
Ala	Val	Val	Val	Pro	Val	His	Leu	Ala	Gly	Phe	Gln	Asp	Pro	Leu	Asp
		180						185					190		
Pro	Lys	Thr	Ile	Asp	Lys	Tyr	Glu	Ala	Ala	Val	Glu	Phe	Glu	Ala	
	195						200				205				
Arg	Thr	Gly	Lys	Lys	Ala	Arg	Ala	Val	Met	Leu	Cys	Asn	Pro	His	Asn
	210				215						220				
Pro	Leu	Gly	Arg	Cys	Tyr	Pro	Arg	Glu	Thr	Val	Asp	Arg	Leu	Met	Arg
225				230						235				240	
Leu	Cys	Gln	Ala	Arg	Gly	Met	His	Leu	Ile	Ser	Asp	Glu	Val	Tyr	Ala
			245						250					255	
Leu	Ser	Val	Trp	Asn	Asn	Arg	Leu	Asp	Asn	Pro	Asn	Lys	Val	Pro	Phe
		260						265					270		
Thr	Pro	Phe	Lys	Ser	Ile	Leu	Ser	Arg	Asp	Thr	Thr	Asn	Leu	Ile	Asp
		275					280					285			
Ser	Ser	Leu	Val	His	Val	Leu	Trp	Gly	Leu	Ser	Lys	Asp	Phe	Gly	Ala
	290					295					300				
Asn	Gly	Leu	Arg	Val	Gly	Ala	Val	Ile	Ser	Gln	Ser	Ser	Pro	Asp	Phe
305				310						315				320	
His	Ile	Ala	Gln	Lys	Cys	Leu	Ser	Leu	Tyr	Ser	Phe	Val	Ser	Ser	Leu
			325						330					335	
Ser	Asp	Gln	Ile	Thr	Thr	Ser	Ile	Leu	Lys	Asp	Asp	Thr	Phe	Thr	Asp
		340						345					350		
Asn	Tyr	Ile	Lys	Met	Asn	Gln	Glu	Lys	Leu	Ser	Glu	Cys	His	Glu	Phe
	355					360					365				
Leu	Ala	Leu	Leu	Leu	Asn	Lys	His	Arg	Ile	Glu	Tyr	Met	His	Gly	Cys
	370					375						380			

13203

```

Asn Ala Gly Phe Phe Leu Trp Val Asn Leu Gly Lys Arg Tyr Leu Glu
385                      390                      395                      400
Ala His Pro Asp Glu Gln Lys Val Arg Gln Arg Glu Gly Gln Asp Glu
                      405                      410                      415
Trp Gly Thr Lys Leu Thr Asp Val Ile Phe Gln Lys Leu Leu Asp Asn
                      420                      425                      430
Lys Val Tyr Val Ala His Gly Thr Ala Tyr Gly Ser Glu Lys Pro Gly
                      435                      440                      445
Trp Phe Arg Leu Val Phe Ser His Pro Leu Pro Trp Leu Glu Glu Ala
                      450                      455                      460
Met Ala Arg Ile Ile Arg Ala Ile Thr Gln
465                      470

```

<210> 33229

<211> 65

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (65)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33229

```

Ala Ile Thr Arg Ala Ser Asn Tyr Leu Pro Pro Phe Ile Thr Thr Arg
1                      5                      10                      15
Arg Leu Thr Gly Cys Lys Thr Leu Ile Asn Ile Glu Val Ser Ser Lys
                      20                      25                      30
Gly Thr Val Gly Leu Leu Leu Trp Val Thr Thr Asn Leu Ser His Phe
                      35                      40                      45
Ser Pro Ser Asn Thr Gln Ala Ile Phe Arg Phe Gln Ile Gln Phe Glu
                      50                      55                      60
Xaa
65

```

<210> 33230

<211> 159

<212> PRT

<213> A.fumigatus

<400> 33230

```

Gly Cys Arg Glu Tyr His Ile Leu Ser Leu Leu Leu Lys Thr Cys Ala
1                      5                      10                      15
Asn Ser Leu Gln Ile Asp Val Ser Val Asn Ala Pro Glu Ser Gly Thr
                      20                      25                      30
Ile Lys Glu Leu Leu Val Asn Glu Asp Thr Val Thr Val Gly Gln
                      35                      40                      45
Asp Leu Val Lys Leu Glu Leu Gly Gly Ala Pro Gly Pro Lys Glu Glu
                      50                      55                      60
Thr Ala Thr Glu Lys Pro Lys Glu Pro Ala Asp Val Gly Lys Arg Pro
65                      70                      75                      80
Pro Val Glu Ser Asn Lys Pro Gln Pro Ser Glu Ala Pro Lys Ala Ser
                      85                      90                      95
Ser Pro Pro Pro Glu Gln Pro Pro Thr Ala Lys Pro Gln Pro Pro Ala
                      100                      105                      110
Pro Lys Ser Asp Ser Pro Ser Asp Val Lys Pro Ser Phe Glu Gly Arg

```

<400> 33232																
Phe	Ala	Ile	Ser	Asn	Ile	Gln	Ser	Leu	Tyr	Cys	Leu	His	Arg	Gly	Glu	
1				5					10					15		
Val	Ser	Thr	Ala	Trp	Thr	Phe	Ile	Ser	Arg	Ala	Ser	Leu	Met	Cys	Leu	
			20					25					30			
Gly	Leu	Gly	Leu	His	Ser	Ser	His	Ala	Met	Val	Met	Glu	Gln	Glu	Asn	
		35					40					45				
Ala	Gly	Gln	Arg	Lys	Met	Cys	Leu	Phe	Trp	Ala	Val	Tyr	Ala	Leu	Glu	
	50					55					60					
Lys	Ala	Val	Ala	Leu	Arg	Leu	Gly	Arg	Pro	Ser	Thr	Ile	Arg	Asp	Gln	
65				70						75				80		
Asp	Ile	Thr	Ile	Pro	Arg	Leu	Thr	Leu	Asp	Arg	Lys	Met	Thr	Ser	Leu	
				85					90					95		
Ala	Phe	Asn	Arg	Leu	Pro	Asp	Trp	Ile	Asn	Ile	Ala	Ser	Leu	Tyr	Gly	
		100						105					110			
Arg	Leu	Tyr	Asp	Ser	Leu	Tyr	Ser	Pro	Thr	Ala	Leu	Thr	Gln	Pro	Gly	
		115					120					125				
Ser	Val	Arg	Val	Ser	Arg	Thr	Ser	Ala	Leu	Ala	Ser	Glu	Leu	Glu	Arg	
	130					135					140					
Met	Ile	Ala	Ala	Arg	Thr	Glu	Tyr	Tyr	Val	Ser	Ile	Lys	Gln	Leu	Ala	

13205

145 150
 Leu Cys Ser Gln Gln Ser
 165

155

160

<210> 33233
 <211> 275
 <212> PRT
 <213> A.fumigatus

<400> 33233

Lys Pro Ala Met Lys Tyr Arg Gly Val Val Tyr Asp Val Gly Leu Asn
 1 5 10 15
 Phe Ser Gly Thr Gly Phe Ser Val Glu Pro Phe Asn Pro Ala Leu Val
 20 25 30
 Lys Tyr Asp Met Lys Thr Ile Ala Asp Glu Leu Tyr Ala Asn Ala Val
 35 40 45
 Arg Ile Glu Gly Glu Glu Leu Ser Arg Leu Glu Ile Ala Ala Arg Ser
 50 55 60
 Ala His Ser Met Gly Leu Lys Val Phe Leu Asn Pro Trp Lys Met Asn
 65 70 75 80
 Ala Thr Ile Glu Glu Thr Arg Ala Tyr Phe Glu Glu Ala Ala Ile Ile
 85 90 95
 Ala Glu Arg Leu His Asn Glu Gly Ile Asp Leu Val Phe Ile Ala Gly
 100 105 110
 Cys Glu Tyr Thr Ile Phe Asn Lys Gly Val Phe Pro Gly Asp Ser Phe
 115 120 125
 Asn Asp Arg Val Met Phe Leu Gly Arg His Phe Pro Ser Ser His Met
 130 135 140
 Ile Glu Asp Ile Ser Gln Thr Leu Arg Asp Lys Ser Val Glu Leu Asn
 145 150 155 160
 Lys Ala Leu Arg Ser Phe Val Glu Val Ile Arg Ser Gln Phe Gly Gly
 165 170 175
 Lys Val Thr Tyr Ser Ala Gly Ser Trp Glu Val Val Asp Trp Asp Ile
 180 185 190
 Phe Asp Val Val Gly Ile Asp Tyr Tyr Arg Arg Gly Glu Thr Ala Glu
 195 200 205
 Lys Tyr Val Ser Cys Leu Asp Arg Tyr Arg Ile Gly Lys Pro Leu Ala
 210 215 220
 Val Leu Glu Val Gly Cys Cys Ala Tyr Glu Gly Ala Ala Glu Arg Gly
 225 230 235 240
 Asp Gly Gly Phe Ala Leu Leu Lys Gly Thr Asn Pro Asp Gly Thr Gly
 245 250 255
 Ile Phe Glu Asn Asp Ile Val Arg Leu His His Gly Ala Gly Arg Gly
 260 265 270
 Cys Ser Phe
 275

<210> 33234
 <211> 71
 <212> PRT
 <213> A.fumigatus

<400> 33234

Ile Ala Ser Gly Pro Ser Leu Asn Ala Arg Leu Arg Phe Leu Gly Arg
 1 5 10 15
 Ser Ser Ser Trp Thr Asp Phe Gly Ser Ser Gly Phe Gly Glu Asp Asp

13206

	20		25		30										
Ser	Ser	Ala	Phe	Ser	Arg	Glu	Tyr	Ser	Leu	Tyr	Leu	Ala	Ala	Val	Asp
	35					40					45				
Asn	Ala	Val	Ser	Val	Ser	Leu	Leu	Leu	Lys	Leu	Lys	Gly	Ser	Leu	His
	50					55					60				
His	Gly	Pro	Gln	Glu	Pro	Ser									
65					70										

<210> 33235

<211> 505

<212> PRT

<213> A.fumigatus

<400> 33235

Arg	Leu	Pro	Phe	Asn	Leu	Ser	Arg	Arg	Glu	Thr	Asp	Thr	Ala	Leu	Ser
1				5					10					15	
Thr	Ala	Ala	Lys	Tyr	Lys	Glu	Tyr	Ser	Arg	Leu	Lys	Ala	Leu	Glu	Ser
			20					25				30			
Ser	Ser	Pro	Asn	Pro	Asp	Asp	Pro	Lys	Ser	Val	Gln	Leu	Glu	Glu	Arg
		35					40				45				
Pro	Lys	Lys	Arg	Lys	Arg	Ala	Phe	Lys	Asp	Gly	Pro	Asp	Ala	Ile	Gln
	50					55				60					
Asn	Ser	Ser	Thr	Pro	Arg	Lys	Thr	Ala	Lys	Gly	Ala	Leu	Glu	Thr	Pro
65					70					75				80	
Ser	Lys	Asn	Arg	Leu	Ser	Ser	Ser	His	Pro	Ser	Gln	Val	Asp	Pro	Tyr
			85					90					95		
Ile	Ser	Pro	Thr	Ala	Leu	Arg	Arg	Leu	Phe	Ser	Pro	Ser	Thr	His	Arg
		100						105					110		
Thr	Pro	Leu	Lys	Thr	Ala	Ile	Gly	Pro	Thr	Pro	Gln	Arg	Asp	Gly	Lys
		115					120					125			
Ala	Leu	Gly	Leu	Phe	Asp	Leu	Ser	Glu	Ser	Gly	Gly	Ser	Thr	Ala	
	130					135				140					
Thr	Pro	Ser	Ala	Asp	Arg	Val	Ala	Ser	Val	Arg	Ala	Ala	Asn	Val	Arg
145				150						155				160	
Thr	Pro	Ser	Lys	Arg	Lys	Thr	Met	Asp	Thr	Ile	Met	Glu	Glu	Asp	Glu
			165					170						175	
Asp	Gly	Glu	Glu	Glu	Ser	Pro	Arg	Leu	Gly	Arg	Thr	Pro	Ala	Ser	Ser
		180					185					190			
Gly	Lys	Lys	Trp	Met	Leu	Ser	Ala	Leu	Phe	Ala	Thr	Pro	Thr	Thr	Leu
	195						200					205			
Arg	Tyr	Ser	Ala	Met	Val	Glu	Asp	Gly	Asn	His	Ile	Thr	Glu	Arg	Asn
	210					215				220					
Leu	Gly	Pro	Pro	Thr	Asp	Pro	Glu	Gly	Thr	Ala	Arg	Asp	Val	Ala	Gly
225				230					235					240	
Pro	Glu	Thr	Pro	Ser	Phe	Leu	Arg	Arg	Ser	Asn	Ser	Ala	Arg	Tyr	Ala
			245					250					255		
Thr	Ser	His	Ser	Ala	Asn	Pro	Ser	Leu	Ser	Pro	Ile	Ala	Val	Arg	Lys
		260					265					270			
Pro	Pro	Gln	Phe	Val	Gly	Lys	Gly	Leu	Ser	Ala	Leu	Val	Gln	Gly	Leu
	275					280					285				
Arg	Asp	Met	Glu	Glu	Glu	Arg	Leu	Glu	Asp	Asp	Leu	Asp	Val	Leu	Arg
	290				295				300						
Glu	Ile	Glu	Ala	Glu	Gln	Ala	Ala	Leu	Asn	Val	Glu	Val	Ala	Asp	Ser
305				310					315					320	
Gln	Ala	Pro	Ala	Glu	Ile	Ile	Gly	Arg	His	Trp	Lys	Lys	Lys	Gly	Gln
			325					330						335	

13207

Lys Arg Thr Thr Arg Arg Val Arg Met Lys Pro Val Ile Ser Lys Pro
 340 345 350
 Ala Ser Lys Pro Gln Ser Ala Ser Asp Asp Glu Asn Arg His Gln Ala
 355 360 365
 Ala Gly Glu Glu Pro Ala Glu Pro Ala Ala Val Pro Glu Thr Gln Gln
 370 375 380
 Pro Arg Ala Leu Asp Ala Val Phe Ser Glu Lys Gln Asn Glu Glu Phe
 385 390 395 400
 Asp Asp Glu Asp Asp Gln Val Ser Leu His Thr Ile Ser Glu Pro Asp
 405 410 415
 Leu Asp Ser Asp Pro Glu Tyr Gly Glu Asp Ile Lys Pro Val Thr Lys
 420 425 430
 Ser Lys Ser Phe Ser Glu Lys Met Lys Glu Ala Ile Gly Val Ala Gln
 435 440 445
 Pro Gln Pro Thr Glu Asp Pro Ala Lys Gln Ser Lys Pro Val Ile Glu
 450 455 460
 Ala Glu Glu Thr Lys Lys Val Arg Ala Arg Lys Val Asn Pro Glu Ala
 465 470 475 480
 His Ala Asn Tyr Arg Ser Leu Lys Ile Arg Asn Lys Asn Ser Lys Gly
 485 490 495
 Arg Gly Ala Gly Arg Phe Arg Arg Arg
 500 505

<210> 33236

<211> 136

<212> PRT

<213> A.fumigatus

<400> 33236

Phe Arg Gly Lys Ile Pro Val Trp Pro Leu Lys Glu Pro Phe His Gln
 1 5 10 15
 Ser Leu Tyr Thr Asp Ser Ser Thr Ala Ile Met Ser Pro Phe Leu Asn
 20 25 30
 Cys Asn Ser Pro Gly Ser Glu Gly Trp Lys Ser Asn Lys Ala Leu Thr
 35 40 45
 Arg Glu Thr Val Ala Ala Glu Val Pro Gly Gly Thr Ala Cys Asp Val
 50 55 60
 Ala Val Trp Val Trp Leu Ala Gly Ser Glu Thr Glu Val Leu Gly Ser
 65 70 75 80
 Ala Leu Gly Ser Gly Ala Ala Leu Gly Phe Ser Leu Met Glu Arg Ala
 85 90 95
 Ser Ala Ile Cys Ser Ser Ser Ser Ser Phe Cys Arg Ser Ala Ser Val
 100 105 110
 Ile Ser Arg Phe Pro Gly Leu Asp Gly Gly Cys Arg Leu Gly Ser Glu
 115 120 125
 Lys Lys Arg Ser Val Leu Ala Ser
 130 135

<210> 33237

<211> 235

<212> PRT

<213> A.fumigatus

<400> 33237

Gly Ser Arg Asp Thr Asn Ala Gly Tyr Asp Ala Arg Thr Asp Leu Phe
 1 5 10 15

13208

```

Phe Ser Asp Pro Asn Leu Gln Pro Pro Ser Lys Pro Gly Lys Arg Glu
      20                      25                      30
Ile Thr Glu Ala Asp Arg Gln Lys Glu Glu Glu Glu Leu Gln Met Ala
      35                      40                      45
Leu Ala Leu Ser Ile Arg Glu Lys Pro Ser Ala Ala Pro Glu Pro Lys
      50                      55                      60
Ala Glu Pro Ser Thr Ser Val Ser Glu Pro Ala Ser Gln Thr Gln Thr
      65                      70                      75                      80
Ala Thr Ser Gln Ala Val Pro Pro Gly Thr Ser Ala Ala Thr Val Ser
      85                      90                      95
Arg Val Arg Ala Leu Phe Asp Phe Gln Pro Ser Glu Pro Gly Glu Leu
      100                     105                     110
Gln Phe Arg Lys Gly Asp Ile Ile Ala Val Leu Glu Ser Val Tyr Lys
      115                     120                     125
Asp Trp Trp Lys Gly Ser Leu Arg Gly Gln Thr Gly Ile Phe Pro Leu
      130                     135                     140
Asn Tyr Val Glu Lys Leu Pro Asp Pro Thr Val Glu Glu Leu Gln Arg
      145                     150                     155                     160
Glu Ala Gln Met Glu Ala Glu Val Phe Gly Gln Ile Lys Asn Val Glu
      165                     170                     175
Lys Leu Leu Thr Leu Leu Ser Thr Arg Ser Ser Glu Leu Asn Val Gln
      180                     185                     190
Asp Asn Glu Glu Ile Thr Ser Leu Tyr His Ser Thr Leu Ser Ile Arg
      195                     200                     205
Pro Lys Leu Ile Glu Leu Ile Gly Lys Tyr Ser Gln Lys Lys Gly Met
      210                     215                     220
Ser Lys Lys Thr Pro Arg Cys Asn Ser Phe Gly
      225                     230                     235

```

<210> 33238

<211> 262

<212> PRT

<213> A.fumigatus

<400> 33238

```

Tyr Arg Leu Asp Glu Phe Thr Gln Leu Asn Glu Lys Phe Ile Lys Ala
1      5      10      15
Arg Arg Asp Tyr Glu Ser Leu Leu Glu Ala Ser Met Ala His Pro Ala
      20      25      30
Gln Pro Gln Tyr Gly Arg Pro Gly Gln Ala Pro Tyr Gly Tyr Pro Gly
      35      40      45
Pro Ala Ala Pro Leu Gly Tyr Pro Gln Gly Pro Pro Gln Ser Asp Pro
      50      55      60
Gln Arg Tyr Phe Ser Pro Arg Pro Gln Asp Gln Thr His Met Tyr Pro
      65      70      75      80
Pro Thr Ser His Ser Pro Asp Pro Arg Gly Arg Thr Pro Pro Ala Gly
      85      90      95
Pro Ser Phe Pro Gln His Gln Gln Pro Pro Pro Asp Ser Tyr Gln Pro
      100     105     110
Val His His Arg Pro Glu Ser Thr Tyr Asp Asn Pro Gln Glu Leu Gly
      115     120     125
Thr Ser Val Tyr Asp Ser Pro Val Glu His Pro Ser Ser Ser Gln Arg
      130     135     140
Leu Pro Tyr Pro Pro Ser Gly Ala Gln Val Pro Pro Gly Val His Gln
      145     150     155     160
Gln Phe Gln His Gln Gln Gln Glu Tyr Pro Pro Ser Gly Tyr Pro Pro

```

13209

```

                165                170                175
Glu Asp Ala Ser Lys Pro Pro Ala Ala Gly Phe Ala Leu Gln Pro Pro
                180                185                190
Gln Gln Thr Leu Gln Gln Pro Pro Tyr Pro Thr Ala Pro Gly Ala His
                195                200                205
Gln Pro Thr Pro Ser His Gln Pro Pro Pro Val Pro Ser Thr Ala Ser
                210                215                220
Lys Pro Thr Pro Tyr Pro Ser Leu Thr Pro Gly Thr Pro Ser Gly Gly
225                230                235                240
Glu Tyr Gln Ala Tyr Asn Pro Ser Gln Ala Gly Ala Ala Asn Ser Asn
                245                250                255
Pro Asn Ser Tyr Tyr Arg
                260

```

<210> 33239

<211> 104

<212> PRT

<213> A.fumigatus

<400> 33239

```

Val Leu Leu Tyr Met Ile His Pro Ser Asn Ile Arg Leu Gln Val Ser
1                5                10                15
Gly Tyr Pro Ile Leu Pro Leu Ala His Lys Phe His Leu Val Ser Thr
                20                25                30
Ser Ser Ser Ser Ile Ser Asn Lys Ser Thr Arg Leu Gln Ala Ile Pro
                35                40                45
Pro Arg Thr Pro Pro Ser Leu Leu Leu Pro Ala Ser Pro Tyr Asn Arg
                50                55                60
Arg Asn Arg His Tyr Asn Asn Leu Leu Thr Leu Arg His Arg Ala Leu
65                70                75                80
Ile Asn Arg Leu His Arg Thr Ser His His Gln Ser Pro Val Arg Arg
                85                90                95
Arg Ser Gln Pro Pro Ile Leu His
                100

```

<210> 33240

<211> 179

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (178)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33240

```

Ile Leu Pro Arg Pro Arg Asp Asp Asp Leu Ile Ile Arg Thr Gln Asn
1                5                10                15
Gly Thr Trp Gln Asp Ile Val Leu Gln Val Gly His Ser Pro Leu Trp
                20                25                30
Pro Val Asp Phe Pro His Ala Val His Lys His Gly Asn Glu Phe Trp
                35                40                45
Arg Leu Gly Ser Gly Gln Gly Leu Trp Lys Tyr Ser Ser Val Ser Glu
                50                55                60
Ala Phe Ala Asp His Pro Glu Asn Phe Asn Met Val Asn Pro Pro Tyr
65                70                75                80

```

13210

Arg Asp Thr Phe Leu Thr Glu Phe Thr Gly Thr Met Trp Val Val Leu
 85 90 95
 Arg Tyr Gln Val Thr Ser Pro Gly Ala Trp Leu Leu His Cys His Phe
 100 105 110
 Glu Met His Leu Asp Asn Gly Met Ala Met Ala Ile Leu Asp Gly Val
 115 120 125
 Asp Lys Trp Pro Lys Val Pro Asp Glu Tyr Ala Leu Gly Ser His Gly
 130 135 140
 Phe Arg Val Asp Gly Lys Asn Gly Leu Gln His Tyr Phe Phe Gln Gln
 145 150 155 160
 Gly His Gly Pro Ala Asn Gln Pro Asn Val Cys Ile Ala Val Gly Glu
 165 170 175
 Leu Xaa Ser

<210> 33241

<211> 111

<212> PRT

<213> A.fumigatus

<400> 33241

Gln Arg Arg Asp Ala Glu Tyr Lys Leu Lys Ile Thr Ile Ala Thr Gln
 1 5 10 15
 Ala Gly Thr Leu Arg Ser Val Glu Ile Leu Val Phe Asp Leu Asp Ser
 20 25 30
 Ala Pro Arg Ser Arg Ser Ile Trp Ile Thr Leu Leu Leu Pro Cys Ser
 35 40 45
 Lys Tyr Thr Leu Leu Arg Pro Pro Trp His Ala Cys Ser Gln Arg Gly
 50 55 60
 Ala Glu Ser Gly Ser Lys Gly Tyr Val Pro Phe Leu Asp Ile His Ile
 65 70 75 80
 Phe Ser Leu Lys Phe Tyr Leu Asp Cys Gly Pro Val Ala Ile Met Thr
 85 90 95
 Ala Lys Trp Asn Glu Arg Ile Phe Tyr His Met Lys Ile Asn Ile
 100 105 110

<210> 33242

<211> 133

<212> PRT

<213> A.fumigatus

<400> 33242

Gly Asn Gly Glu Leu Arg Ala Met Thr Ala Thr Leu Ala Ala Ile Arg
 1 5 10 15
 Gly Ser Asp Ala Tyr Glu Val Ala Asp Pro Glu Pro Ser Gly Arg Arg
 20 25 30
 Asn Arg Ile Phe Ser Glu Phe Arg Glu Glu Leu Ala Gly Thr Ile Asp
 35 40 45
 Glu Ala Ser Gly Met Pro Ala Tyr Ala Arg Asp Arg Trp Val Ser Ile
 50 55 60
 Asn Trp Ile Gly Gly Trp Thr Phe Lys Ser Leu Gln Pro Thr Ile Asp
 65 70 75 80
 Glu His Glu Met Trp Ile Tyr Glu Val Asp Gly His Tyr Ile Glu Pro
 85 90 95
 Arg Arg Ala Glu Thr Phe Leu Ile Trp Ala Gly Glu Arg Tyr Ser Ala
 100 105 110

13211

Leu Val Gln Leu Asp Lys Lys Pro Met Asp Tyr Ser Ile Arg Val Pro
115 120 125
Asp Gly Gly Tyr Leu
130

<210> 33243
<211> 112
<212> PRT
<213> A.fumigatus

<400> 33243
Met Ile Ser Ala Phe Gly Ile Leu Gln Tyr Lys Asn Ser Asn Leu Asp
1 5 10 15
Ala His Arg Pro Pro Asp Trp Phe Ser Val Thr Thr Ile Ser Gln Pro
20 25 30
Phe Phe Asp Tyr Asn Ala Trp Pro Trp Asp Gly Ile Val Phe Leu
35 40 45
Asp Lys Leu Asp Leu Pro Pro Trp Pro Pro Lys Ala Pro Phe Thr Gly
50 55 60
Asp Gly Asp Thr Met His Val Leu Tyr Leu Gly Lys Ala Asn Ser Thr
65 70 75 80
Trp Glu Phe Thr Leu Ser Gly Lys Lys Lys Tyr Pro Ser Asp Arg Ser
85 90 95
Ala Tyr His Pro Leu Leu Tyr Asn Val Asn Ser Pro Glu Ala Ser Arg
100 105 110

<210> 33244
<211> 120
<212> PRT
<213> A.fumigatus

<400> 33244
Pro Ile Asp Arg Gly His Lys Leu Ala Phe Gln Thr Pro His Leu Leu
1 5 10 15
Ser Leu Gln Ala Pro Leu Gly Ile Arg Arg Arg Ser Cys Ser Ser Cys
20 25 30
Pro Thr Ala Gln Gly Gln Pro Pro His Met His His Cys Arg Val Leu
35 40 45
Arg Pro Lys Ser Pro Ser Leu Leu Ser Thr Arg Arg Ser Leu Lys Asn
50 55 60
Asp Val Asp Val His Cys Thr Val Asp Glu Leu Val Gly Ser Tyr Leu
65 70 75 80
Lys Glu Ile Arg Thr Arg Gln Pro Thr Gly Pro Tyr His Leu Ala Gly
85 90 95
Trp Ser Ala Gly Gly Ile Leu Ala Tyr Arg Ala Ala Gln Ile Leu Leu
100 105 110
Ala Arg Gly Glu Gln Val Pro Cys
115 120

<210> 33245
<211> 138
<212> PRT
<213> A.fumigatus

<400> 33245
Val Leu Leu Asp Ala Pro Pro Pro Met Gly Leu Gly Thr Leu Pro Gln

13212

```

1           5           10           15
His Phe Phe Asp His Cys Asp Ala Met Gly Ile Phe Gly Gln Glu Gly
      20           25           30
Lys Ala Pro Glu Trp Leu Ile Pro His Phe Lys Lys Thr Asn Ala Ile
      35           40           45
Leu Ser Gly Tyr Tyr Ala Thr Pro Phe Val Ala Gly Gln Gly Pro Asp
      50           55           60
Arg Thr Gly Ile Ile Trp Ala Ser Gln Ser Val Phe Asp Ser Lys Gly
      65           70           75           80
Cys Ala Arg Pro Ala Pro Arg Pro Glu Asp Met Glu Asp Met Lys Phe
      85           90           95
Leu Thr Glu Ala Arg Thr Asp Phe Ser Ala Gly Ile Trp Gly Ser Leu
      100          105          110
Phe Pro Gly Ala Glu Val Val Val Asp Lys Ala Asp Gly Ala Asn His
      115          120          125
Phe Ser Met Met Val Arg Ala Ser Val Leu
      130          135

```

<210> 33246

<211> 181

<212> PRT

<213> A.fumigatus

<400> 33246

```

Phe Ser Pro Thr Arg Pro Ser Cys Gly Arg Leu Cys Ser Ser Pro Ile
1           5           10           15
Ser Thr Ala Trp Asp Val Val Val Ser Phe Val Val Ala Gln Ile Phe
      20           25           30
Thr Ala Pro Pro Tyr Ser Leu Asp Ala Val Asp Ile Gly Tyr Met Ser
      35           40           45
Ala Gly Pro Val Ile Gly Gly Thr Leu Gly Ser Ile Val Cys Gly Leu
      50           55           60
Val Ser Asp Pro Val Ala Arg Ala Leu Ala Arg Arg Asn Arg Gly Val
      65           70           75           80
Tyr Glu Pro Glu Phe Arg Leu Val Leu Ile Ile Pro Met Leu Ile Ala
      85           90           95
Ser Ala Leu Gly Trp Phe Leu Phe Gly Asn Leu Val Val Ala Gly Thr
      100          105          110
Ser Pro Ser Val Val Ala Val Val Trp Ala Ile Thr Thr Ile Ser Arg
      115          120          125
Gln Phe Gly Met Thr Thr Ile Gly Ala Tyr Ile Leu Asp Gly Val Ser
      130          135          140
Lys His Leu Val Arg Gly Val Tyr His Arg Asp Gly Asp Glu Glu Leu
      145          150          155          160
Cys Val Leu Trp Ala Phe Val Cys Val Pro Phe Phe Leu Val His Trp
      165          170          175
Ile Leu Gly Cys Cys
      180

```

<210> 33247

<211> 107

<212> PRT

<213> A.fumigatus

<400> 33247

```

Glu Ile Trp Gly Glu Pro Leu Ser Glu Gln Gly Leu Val Pro Thr Asn

```

13213

```

1           5           10           15
Ala Thr Gln Ser Val Pro Arg Lys Met Ala Phe Gly Ile Leu Ser Pro
      20           25           30
Ser His Gly Pro Gln His Val Gly Gly Thr Ser Leu Leu Asp Thr Ser
      35           40           45
Gly Val Asp Glu Ala Pro Ser Val Ala Glu Leu Glu Arg Gly Thr Gly
      50           55           60
Lys His Ala Lys Thr Val Leu Ile Pro Gln Pro Ser Lys Asp Pro Asn
65           70           75           80
Asp Pro Leu Arg Trp Pro Leu Trp Gln Arg Asp Leu Met Phe Leu Met
      85           90           95
His Ile Tyr Cys Thr Ile Leu Cys Val Gly Gly
      100           105

```

<210> 33248

<211> 96

<212> PRT

<213> A.fumigatus

<400> 33248

```

Ile Ile Tyr Thr Arg Ser Ala Tyr Asn Met Leu Glu Ala Phe Glu Val
1           5           10           15
Leu Thr Thr Ser Gly Val Val Leu Trp Ser Lys Ser Tyr Ala Pro Val
      20           25           30
Gly Ala His Val Val Asn Ser Leu Ile Asn Asp Val Phe Ile Glu Glu
      35           40           45
Lys Val Arg Ala Gln Asn Gln Ala Ala Ser Ser Ala Ala Pro Ile Tyr
      50           55           60
Lys Lys Glu Lys Tyr Thr Leu Lys Trp Lys Gln Val Lys Asp Phe Asn
65           70           75           80
Leu Ile Phe Val Val Cys Ser Arg Arg Ser Leu Ile Gln Trp Arg His
      85           90           95

```

<210> 33249

<211> 220

<212> PRT

<213> A.fumigatus

<400> 33249

```

Phe Asn Arg Tyr Val Ser Ile Pro Ala Leu Lys His Tyr Phe Asn Val
1           5           10           15
Ser Asn Ser Tyr Val Leu Asn Lys Leu Ala Leu Val Leu Phe Pro Trp
      20           25           30
Arg His Lys Pro Trp Ser Arg Gln Gln Ala Arg Leu Thr Thr Ser Ser
      35           40           45
Ala Gly Pro Asn Gly Gln Ile Ala Gln Gln Gln Tyr Ser Ser Met Phe
      50           55           60
Leu Pro Pro Arg Asp Asp Leu Asn Ser Pro Asp Met Tyr Ile Pro Val
65           70           75           80
Met Ala Leu Val Thr Tyr Ile Leu Leu Ser Ala Val Leu Ala Gly Phe
      85           90           95
Arg Gly Gln Phe His Pro Glu Leu Leu Gly Ser Ile Thr Thr Thr Ala
      100           105           110
Ile Ala Val Ile Val Phe Glu Ile Leu Cys Leu Lys Leu Ala Met Tyr
      115           120           125
Ile Leu Ser Ile Asn Asn Glu Ser Gln Leu Leu Asp Leu Val Ala Tyr

```

13214

130	135	140
Ser Gly Tyr Lys Phe Val Gly Ile Ile Ala Thr Leu Val Met Ser Glu		
145	150	155
Ile Leu Thr Pro Gly Arg Gly Thr Gly Gly Trp Val Gly Trp Val Val		
	165	170
Phe Met Tyr Thr Phe Leu Ala Asn Ala Phe Phe Leu Val Ser Asp Lys		
	180	185
Phe Phe Val Thr Ser Ala Phe Gln Ser Val Asp Lys Leu Pro Ala Pro		
	195	200
Leu Val Glu Val Arg Ser Thr Pro Arg Leu Asn Gln		
210	215	220

<210> 33250
 <211> 168
 <212> PRT
 <213> A.fumigatus

<400> 33250
Lys Thr Arg Arg Asp Arg Ile Val Ala Ser Leu Leu Phe Ile Thr
1 5 10 15
Ser Phe Ser Leu Ile Val Thr Arg Glu Lys Lys Ile Asn Met Tyr Arg
20 25 30
Gln Ser Phe Ala Pro Pro Pro Ala Gln Ser Pro Pro Leu His His Pro
35 40 45
Val Pro Gln His Val Ser Thr Val Pro Met Met Arg Ser Pro Pro Pro
50 55 60
Pro Ala Ser Gln Gln Pro Pro Ser Ser Gly Tyr Gly Asn Pro Tyr Gln
65 70 75 80
Pro Ser Pro Ala Gln Gly Gly Ser Gly Thr Tyr Ala Pro Gly Phe Ser
85 90 95
Gly Phe Ile Asn Asp Pro Thr Ala Gln Met Gly Phe Gln Val Gly Lys
100 105 110
Thr Ala Met Ala Ala Gly Gln Glu Tyr Met Glu Gln Asn Val Ser Trp
115 120 125
Leu Thr Lys Lys Pro Thr Ala Pro Gln Thr Tyr Glu Leu Leu Leu Ile
130 135 140
Phe His Ser Ser Ile Ala Met Ser Pro Ser Gln Leu Ser Ser Ile Thr
145 150 155 160
Ser Thr Tyr Gln Ile Leu Thr Ser
165

<210> 33251
 <211> 113
 <212> PRT
 <213> A.fumigatus

<400> 33251
Gly Thr Phe Ile Lys Cys Ser Ile Leu Cys Gln Tyr Leu Arg Ile Phe
1 5 10 15
Pro Ser Arg Arg Phe Arg Phe Ala Cys His Thr Val Met Gly Ile Val
20 25 30
Ala Leu Tyr Ser Thr Trp Ala Ile Val Ser Ala Phe Val Asn Cys Ile
35 40 45
Pro Val Ala Arg Phe Trp Asp Arg Asp Ile Pro Gly Ser Cys Leu Ser
50 55 60
Phe Glu Ala Val Trp Phe Phe Asn Ala Ser Met Asn Ile Ala Thr Asp

```
<210> 33252
<211> 71
<212> PRT
<213> A.fumigatus
```

```
<210> 33253
<211> 329
<212> PRT
<213> A.fumigatus
```

<400> 33253																
Arg	Ser	Glu	Trp	Leu	Arg	Ile	Gly	Pro	Pro	Gly	Arg	Cys	His	Asp	Asp	
1				5					10					15		
Pro	Thr	Thr	Phe	Tyr	Lys	His	Asn	Gly	His	Gln	His	Thr	His	Met	His	
			20					25					30			
Ser	Gly	Ser	Asn	Ser	Leu	Ser	Thr	Val	Pro	Ala	Gln	Gly	Glu	Ser	Ile	
		35					40					45				
Asp	Met	Pro	Ser	Ala	Leu	Arg	Thr	Phe	Thr	Leu	Asn	Phe	Val	Gly	Asp	
	50					55					60					
Val	Met	Leu	Gly	Arg	Leu	Val	Asp	Gln	Leu	Trp	Pro	Gln	His	Val	Asp	
65					70					75					80	
Asn	Ala	His	Glu	Arg	Arg	Val	Val	Ser	Tyr	Phe	Ile	Glu	Arg	Tyr	Pro	
				85					90					95		
Tyr	Leu	Ser	Lys	Tyr	Thr	His	Arg	Asp	Pro	Trp	Gly	Ser	Ala	Leu	Pro	
			100					105					110			
Leu	Phe	His	Asn	Ser	Asp	Leu	Asn	Leu	Ile	Asn	Leu	Glu	Thr	Ser	Ala	
		115					120					125				
Thr	Thr	Thr	Asn	Asp	Pro	Trp	Pro	Ser	Lys	Ala	Phe	Asn	Tyr	Arg	Met	
		130				135					140					
His	Pro	Ala	Asn	Ala	Ala	Leu	Arg	Glu	Ala	Arg	Ile	Asp	Tyr	Ala		
145				150					155					160		
Thr	Leu	Ala	Asn	Asn	His	Thr	Leu	Asp	Phe	Gly	Thr	Asp	Gly	Leu	Val	
			165						170					175		
Glu	Thr	Val	Trp	Thr	Met	Lys	Glu	Ser	Lys	Ile	Ala	Phe	Ala	Gly	Ala	
			180				185					190				
Gly	Glu	Thr	Thr	Asp	Glu	Ser	Arg	Arg	Pro	Ala	Val	Leu	Arg	Leu	Pro	

```

      195              200              205
Arg Cys Ala Glu Ala His Ala Gln Asp Ser His Glu Gln Ser Ser Lys
  210              215              220
Ser Tyr Ser Val His Val Tyr Ala Ala Ser Asp His Pro Arg Asp Trp
  225              230              235              240
Ala Val Val Pro Thr Phe His Leu Ile Asp Tyr Ser Ala Arg Thr Arg
      245              250              255
Glu His Leu Arg Thr Leu Leu Thr Ser Pro Pro Ala Ser Thr Asp Thr
      260              265              270
Pro Glu Lys Pro Ala Leu Lys Ile Phe Ser Val His Trp Gly Pro Asn
      275              280              285
Tyr Thr Trp Gln Pro Ala Glu Lys Ile Arg Ser Leu Ala His Phe Leu
      290              295              300
Ile Asp Glu Cys Gly Val Asp Ile Val His Gly His Ser Ser His His
  305              310              315              320
Val His Gly Val Asp Arg His Arg Gln
      325

```

<210> 33254

<211> 121

<212> PRT

<213> A.fumigatus

<400> 33254

```

Ser Thr Leu Val Cys Ser Tyr Ile Leu Thr Leu Cys Arg Leu Pro Val
  1              5              10              15
Pro Ser Leu Trp Leu Asp Val Phe Gln Lys Ile Lys Ala Leu Gly Phe
      20              25              30
Asn Cys Val Ser Phe Tyr Val Asp Trp Ala Leu Leu Glu Gly Lys Pro
      35              40              45
Gly Glu Tyr Arg Ala Glu Gly Asn Phe Ala Leu Glu Pro Phe Phe Asp
      50              55              60
Val Ala Lys Gln Ala Gly Ile Tyr Leu Leu Ala Arg Pro Gly Pro Tyr
      65              70              75              80
Ile Asn Ala Glu Ala Ser Gly Gly Gly Phe Pro Gly Trp Leu Gln Arg
      85              90              95
Val Asn Gly Thr Leu Arg Thr Ser Asp Pro Ala Tyr Leu Lys Ala Thr
      100              105              110
Asp Lys Tyr Val Ala Tyr Asp Cys Leu
      115              120

```

<210> 33255

<211> 91

<212> PRT

<213> A.fumigatus

<400> 33255

```

Ile Ser Tyr Ile Ala His Val Ala Ala Thr Ile Ala Lys Gly Gln Ile
  1              5              10              15
Thr Asn Gly Gly Pro Val Ile Leu Tyr Gln Pro Glu Asn Glu Tyr Ser
      20              25              30
Gly Ala Cys Cys Asp Ala Thr Phe Pro Asp Gly Asp Tyr Met Gln Tyr
      35              40              45
Val Ile Asp Gln Ala Arg Asn Ala Gly Ile Val Val Pro Leu Ile Asn
      50              55              60
Asn Asp Ala Trp Thr Gly Gly His Asn Ala Pro Gly Thr Gly Lys Gly

```

13217

65		70		75		80				
Glu	Val	Asp	Ile	Tyr	Gly	His	Asp	Ser	Tyr	Pro
		85			90					

<210> 33256
 <211> 101
 <212> PRT
 <213> A.fumigatus

<400> 33256
 Gly His Pro Ser Val Trp Pro Lys Gly Asn Leu Pro Thr Thr Phe Arg
 1 5 10 15
 Thr Asp His Leu Lys Gln Ser Pro Thr Thr Pro Tyr Ser Leu Ile Glu
 20 25 30
 Val Cys Val Cys Leu Lys Cys Pro Arg Ile Arg Thr Pro Leu Ile Val
 35 40 45
 Val Gln Phe Gln Ala Gly Ser Phe Asp Pro Trp Gly Gly Pro Gly Phe
 50 55 60
 Ala Ala Cys Ala Ala Leu Val Asn His Glu Phe Glu Arg Val Phe Tyr
 65 70 75 80
 Lys Asn Asp Leu Ser Phe Gly Ala Ala Ile Leu Asn Leu Tyr Met Val
 85 90 95
 Trp Lys Asp Pro Ala
 100

<210> 33257
 <211> 412
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (340), (406)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 33257
 Phe Arg Ala Asp Arg Asn Ser Val Tyr Asn Tyr Trp Val Pro Gln Leu
 1 5 10 15
 Asp Lys Asp Asp Ser Ser Thr Gly Tyr Ser Ser Glu Lys Thr Thr Ala
 20 25 30
 Ser Ser Ile Ile Val Lys Ala Gly Tyr Leu Val Arg Thr Ala Tyr Thr
 35 40 45
 Lys Gly Ser Gly Leu Tyr Leu Thr Ala Asp Phe Asn Ala Thr Thr Pro
 50 55 60
 Val Glu Val Ile Gly Ala Pro Ser Asn Val Arg Asn Leu Tyr Ile Asn
 65 70 75 80
 Gly Glu Lys Thr Gln Phe Lys Thr Asp Lys Asn Gly Ile Trp Ser Thr
 85 90 95
 Glu Val Lys Tyr Ser Ala Pro Lys Ile Lys Leu Pro Ser Met Lys Asp
 100 105 110
 Leu Asp Trp Lys Tyr Leu Asp Thr Leu Gln Glu Val Gln Ser Thr Tyr
 115 120 125
 Asp Asp Ser Ala Trp Pro Ala Ala Asp Leu Asp Thr Thr Pro Asn Thr
 130 135 140
 Leu Arg Pro Leu Thr Thr Pro Lys Ser Leu Tyr Ser Ser Asp Tyr Gly
 145 150 155 160

13218

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Phe His Thr Gly Tyr Leu Ile Tyr Arg Gly His Phe Val Ala Asp Gly
                165                      170                      175
Ser Glu Thr Thr Phe Asp Val Arg Thr Gln Gly Gly Ser Ala Phe Gly
                180                      185                      190
Ser Ser Val Trp Leu Asn Glu Ser Phe Leu Gly Ser Trp Thr Gly Leu
                195                      200                      205
Asn Ala Asn Ala Asp Tyr Asn Ser Thr Tyr Lys Leu Pro Gln Val Glu
                210                      215                      220
Gln Gly Lys Asn Tyr Val Leu Thr Ile Leu Ile Asp Thr Met Gly Leu
225                      230                      235                      240
Asn Glu Asn Trp Val Val Gly Thr Asp Glu Met Lys Asn Pro Arg Gly
                245                      250                      255
Ile Leu Ser Tyr Lys Leu Ser Gly Arg Asp Ala Ser Ala Ile Thr Trp
                260                      265                      270
Lys Leu Thr Gly Asn Leu Gly Gly Glu Asp Tyr Gln Asp Lys Ile Arg
                275                      280                      285
Gly Pro Leu Asn Glu Gly Gly Leu Tyr Ala Glu Arg Gln Gly Phe His
                290                      295                      300
Gln Pro Gln Pro Pro Ser Gln Lys Trp Lys Ser Ala Ser Pro Leu Asp
305                      310                      315                      320
Gly Leu Ser Lys Pro Gly Ile Gly Phe Tyr Thr Ala Gln Phe Asp Leu
                325                      330                      335
Asp Ile Pro Xaa Gly Trp Asp Val Pro Leu Tyr Phe Asn Phe Gly Asn
                340                      345                      350
Ser Thr Lys Ser Ala Tyr Arg Val Gln Leu Tyr Val Asn Gly Tyr Gln
                355                      360                      365
Tyr Gly Lys Phe Val Ser Asn Ile Gly Pro Gln Thr Ser Phe Pro Val
                370                      375                      380
Pro Gln Gly Ile Leu Asn Tyr Gln Gly Asn Asn Trp Val Ala Leu Thr
385                      390                      395                      400
Leu Trp Ala Leu Glu Xaa Asp Gly Ala Lys Phe Gly
                405                      410

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<210> 33258

<211> 60

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (2), (3), (5)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33258

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Gly Xaa Xaa Phe Xaa Met His His Arg Arg Ile Leu Leu Ser Pro Val
1                5                10                15
Val Lys Thr Asp Glu Lys Ser Leu Phe Val Asn Gly Glu Arg Ile Met
                20                25                30
Ile Phe Ser Gly Glu Val His Pro Phe Arg Cys Asp Thr Asp Ala Val
                35                40                45
Ile Tyr Ser Gly Leu Phe Leu His Ser Tyr Ile Val
                50                55                60

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<210> 33259

<211> 224

<212> PRT

<213> A.fumigatus

<400> 33259

Thr Phe Gly Gly Thr Asn Trp Gly Asn Leu Gly His Pro Gly Gly Tyr
 1 5 10 15
 Thr Ser Tyr Asp Tyr Gly Ser Pro Leu Thr Glu Ser Arg Asn Val Thr
 20 25 30
 Arg Glu Lys Tyr Ser Glu Leu Lys Leu Ile Gly Asn Phe Val Lys Ala
 35 40 45
 Ser Gln Ser Tyr Ile Leu Val Thr Pro Gly Asn Leu Thr Thr Ser Gly
 50 55 60
 Tyr Ala Asp Thr Ala Asp Leu Thr Val Thr Pro Leu Leu Gly Asn Gly
 65 70 75 80
 Thr Gly Ser Tyr Phe Val Val Arg His Thr Asp Tyr Thr Ser Gln Ala
 85 90 95
 Cys Thr Pro Tyr Lys Leu Ser Leu Pro Thr Ser Ala Gly Arg Leu Thr
 100 105 110
 Val Pro Gln Leu Gly Gly Thr Leu Thr Leu Asn Gly Arg Asp Ser Lys
 115 120 125
 Ile His Val Val Asp Tyr Asn Val Ala Gly Thr Asn Ile Ile Tyr Ser
 130 135 140
 Thr Ala Glu Val Phe Thr Trp Lys Asn Phe Gly Asp Ser Lys Val Leu
 145 150 155 160
 Ile Leu Tyr Gly Gly Pro Gly Glu His His Glu Leu Ala Val Ser Leu
 165 170 175
 Lys Ser Asp Val Gln Val Val Glu Gly Ser Asn Ser Glu Phe Lys Ser
 180 185 190
 Lys Lys Val Gly Asp Val Val Val Val Ala Trp Asp Val Ser Pro Ser
 195 200 205
 Arg Arg Ile Val Gln Ile Gly Asp Leu Lys Ile Phe Leu Leu Gly Glu
 210 215 220

<210> 33260

<211> 502

<212> PRT

<213> A.fumigatus

<400> 33260

Thr Ser Thr Pro Tyr Ser Arg Tyr Cys Thr Pro Arg Gln Arg Thr Glu
 1 5 10 15
 Ile Leu Ile Leu Ala Lys Val Met Ser Ser Glu Lys Leu Leu Phe Pro
 20 25 30
 Arg Pro His Phe Phe Glu Gly Ser Lys Leu Asn Phe Ala Glu Asn Leu
 35 40 45
 Leu Tyr Pro Ala Ser Ser Pro Ala Glu Asp Thr Thr Ala Val Ile Ser
 50 55 60
 Ala Thr Glu Ser Asp Arg Glu Phe Val Ser Trp Lys Glu Leu Arg Glu
 65 70 75 80
 Arg Val Arg Lys Cys Ala Asn Ser Leu Arg Glu Ala Gly Leu Gln Ala
 85 90 95
 Gly Asp Arg Val Ala Gly Phe Leu Gly Asn His Ala Asn Thr Val Ile
 100 105 110
 Ala Met Leu Ala Thr Thr Ser Ile Gly Ala Tyr Trp Thr Gly Val Ser
 115 120 125
 Pro Asp Thr Gly Val His Ala Val Leu Glu Arg Leu Arg Gln Ile Glu
 130 135 140

Pro Lys Ile Leu Phe Ala Asp Asn Ala Ser Leu Tyr Asn Gly Lys Val
 145 150 155 160
 His Ser Ala His Glu Lys Ile Arg Gln Ile Val Ser Glu Leu Pro Glu
 165 170 175
 Leu Gln Leu Leu Val Val Phe Glu Thr Ile Lys Ser His Gln Phe Asn
 180 185 190
 Val Asp Glu Val Lys Pro Thr Gln Gly Lys Ala Cys Thr Tyr Asp Thr
 195 200 205
 Phe Leu Ala Ser Val Ser Asn Ala Ser Ala Ala Leu Glu Phe Ala Ser
 210 215 220
 Leu Asp Pro Asp His Pro Val Tyr Ile Leu Tyr Ser Ser Gly Thr Thr
 225 230 235 240
 Gly Ala Pro Lys Pro Ile Val His Gly Ala Leu Gly Thr Leu Leu Gln
 245 250 255
 His Lys Lys Glu His Val Leu His Cys Asp Ile His Pro Gly Asp Arg
 260 265 270
 Leu Phe Tyr Phe Thr Thr Thr Thr Trp Met Met Trp His Trp Leu Val
 275 280 285
 Ser Gly Leu Ala Ser Gly Ala Thr Ile Val Leu Tyr Asp Gly Ser Pro
 290 295 300
 Phe Arg Pro Leu Asp Pro Glu Gly Gly Asn Gly Glu Met Ala Met Pro
 305 310 315 320
 Arg Leu Ile Asp Glu Leu Ser Ile Thr His Phe Gly Thr Ser Ala Lys
 325 330 335
 Tyr Leu Ser Ile Leu Glu Gln Ala Ser Leu Lys Pro Thr Gln His Pro
 340 345 350
 His Arg Pro Val Thr Leu Arg Thr Leu Lys Ala Ile Phe Ser Thr Gly
 355 360 365
 Ser Pro Leu Ala Pro Ser Thr Phe Glu Tyr Val Tyr Ser Ser Ile His
 370 375 380
 Pro Asp Ile Met Leu Gly Ser Ile Thr Gly Gly Thr Asp Ile Leu Ser
 385 390 395 400
 Leu Phe Cys Ala Cys Cys Pro Ile Leu Pro Val Tyr Lys Gly Glu Ile
 405 410 415
 Gln Cys Arg Cys Leu Gly Met Ala Val Ser Ala Tyr Asp Tyr Ser Gly
 420 425 430
 Ser Asp Ile Ser Gly Thr Asn Glu Pro Gly Asp Leu Val Cys Thr Leu
 435 440 445
 Pro Phe Pro Ala Gln Pro Val Met Phe Trp Pro Pro Gly Pro Val Gly
 450 455 460
 Ala Glu Lys Tyr Arg Lys Ser Tyr Phe Asp Ile Phe Gly Pro Ser Ile
 465 470 475 480
 Trp His His Gly Asp Phe Val Arg Ile Asn Pro His Thr Gly Gly Val
 485 490 495
 His Met Pro Gly Pro Asn
 500

<210> 33261

<211> 96

<212> PRT

<213> A.fumigatus

<400> 33261

Ser Pro Arg Leu His Thr Leu Leu Ile Trp His His Trp Cys Ala Glu
 1 5 10 15
 Thr His Cys Pro Trp Ser Ala Gly Asn Val Ala Ala Ala Gln Glu Gly

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<210> 33262
<211> 163
<212> PRT
<213> A.fumigatus
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<210> 33263
<211> 220
<212> PRT
<213> A.fumigatus
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<400> 33263																
Gln	Ser	Thr	Met	Ser	Ser	Asn	Val	Gly	Leu	Ser	Thr	Pro	Arg	Gly	Ser	
1				5				10					15			
Gly	Thr	Ser	Gly	Tyr	Val	Gln	Arg	Asn	Tyr	Ala	Phe	Met	Lys	Pro	Arg	
			20					25					30			
Asn	Ala	Gly	Tyr	Gly	Ala	Pro	Tyr	Pro	Pro	Val	Ser	Gly	Ala	Asn	Ala	
			35				40						45			
Asn	Asp	Ser	Ser	Arg	Gly	Phe	Lys	Gln	Arg	Gln	Pro	Asp	Lys	Gln	Ile	
	50					55					60					
Leu	Glu	His	Asp	Arg	Arg	Arg	Ala	Val	Glu	Val	Lys	Val	Met	Glu	Glu	
65					70					75					80	
Arg	Glu	Arg	Leu	Glu	Glu	Glu	Asn	Glu	Arg	Ile	Glu	Gln	Glu	Gly	Lys	

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<210> 33264
<211> 136
<212> PRT
<213> A.fumigatus
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<210> 33265
<211> 181
<212> PRT
<213> A.fumigatus
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<400> 33265
Leu Lys Cys Phe Val Ala Glu Ala Leu Asn Leu Leu Lys Ser Tyr Asp
1          5          10          15
Thr Leu Val Lys Ser Cys Ser His Thr Thr Ser Glu Glu Ala Tyr Phe
          20          25          30
Ser Arg Pro His Ala His Pro His Gln Ala Pro Leu Pro Leu Ile Pro
          35          40          45
Ser Glu Ser Glu Leu Ser Glu Leu Leu Pro Pro Cys Ala Leu Pro Cys

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13223

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      50              55              60
Asp Ser Thr Thr Ser Ala Ala Asp Val Arg Gly Thr Ser Ile Ala Leu
65              70              75              80
Phe Ser Pro Ile Ile Ile Gly Cys Met Pro Thr Gln Val Pro Ile Ala
      85              90              95
Phe Pro Val Val Ser Ile Gly Phe Ser Gly Leu Ile Lys Arg Ala His
      100              105              110
Gln Ala Val Trp Pro Val Phe Glu Asp Asp Met Trp Lys Pro Ser Glu
      115              120              125
Arg Leu Met Glu Thr Ile Arg His Tyr Ala Ser Phe Pro Ala Thr Gly
      130              135              140
Val Ser Leu Arg Gln Met Val Gln Phe Gly Asp Arg Pro Ser Thr Gly
145              150              155              160
Met Cys Ile His Leu Val Leu Leu Glu Tyr Leu Glu Val Phe Gln Leu
      165              170              175
Gly Arg Ser Gln Gly
      180

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<210> 33266

<211> 235

<212> PRT

<213> A.fumigatus

<400> 33266

```

Val Lys Cys Pro Arg Ser Arg Arg Cys Arg Thr Gly Met Arg Ser Arg
1              5              10              15
Ser Arg Tyr Asp Ser Thr Pro His Pro Ser Cys Ser Arg Asn Ser Cys
      20              25              30
Ser Arg Ala Pro Gln Glu Ile Ile Asn Leu Pro Arg Pro Thr Leu Ser
      35              40              45
Gln Glu Val Lys Ala Arg Leu Arg Pro Gly Lys Met Ser Gly Gly
      50              55              60
Phe Ser Lys Ile Leu Ser Glu Thr Thr Gln Asn Pro Ser Ile Lys Glu
65              70              75              80
Gly Gln Tyr Arg Ser Ser Pro Thr Asn Gly Asn Gly Asn Gly Lys Gly
      85              90              95
His Val Ser Arg Arg Tyr Phe Tyr Pro Ser Asp Asp Gln Gly His Trp
      100              105              110
Pro Pro Glu Leu Asn Asp Tyr Asn Gln Arg Phe Ala Lys Thr Leu Gln
      115              120              125
His Ile Lys Arg Arg His Asp Ser Val Val Thr Thr Val Ala Gln Gly
      130              135              140
Ile Leu Glu Trp Lys Arg Lys Arg Gln Arg Leu Gln Ile Asp Ser Thr
145              150              155              160
Val Gln Ser Phe Leu Asp Arg Phe Tyr Met Ser Arg Ile Gly Ile Arg
      165              170              175
Met Leu Ile Gly Gln His Ile Ala Leu Thr Glu Gln Thr His Val Arg
      180              185              190
His Pro Asn Tyr Val Gly Ile Ile Cys Thr Lys Thr Asn Val Arg Glu
      195              200              205
Val Ala Leu Glu Ala Ile Asp Asn Ala Arg Phe Val Cys Glu Val Phe
      210              215              220
Thr Thr Gly Val Ala Ala Ser Ala Leu Arg Tyr
225              230              235

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<210> 33267

<211> 338
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (194)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 33267
 Phe Arg Val Pro Gly Ser Ser Asp Ala Ala Pro Ser Pro Thr Pro Gln
 1 5 10 15
 Leu Pro Ser Glu Pro Ser Leu Gln Ser Leu Ser Gln Glu Pro Pro Val
 20 25 30
 Ser Ser Ser Gln Ser Leu Pro Glu Arg Pro Ser Gln Thr Lys Thr Val
 35 40 45
 Asp Ser Asn Gln Asp Ala Thr Gln Ser Asp Lys Arg Phe Arg Arg Arg
 50 55 60
 Leu Ser Glu Gln Pro Pro Ser Lys Arg Gln Arg Thr Leu Ser Tyr Ser
 65 70 75 80
 Leu Phe Pro Ala Pro Ile Asp Arg Ala Arg Phe Leu Gly Asp Leu Thr
 85 90 95
 Thr Thr Pro Lys Lys Met Ser Gln Ala Val Gln Pro Glu Ser Arg Pro
 100 105 110
 Asp Glu Ala Glu Lys Pro Ser Ala Ala Gln Asp Gln Pro Pro Ser Thr
 115 120 125
 Ser Gln Val Thr Asp Val Ser Glu Gln Gly Pro Leu Leu Gln Thr Ala
 130 135 140
 Glu Asp Thr Thr Gln Lys Lys Arg Lys Arg Ser Pro Ser Pro Asp Val
 145 150 155 160
 Ile Pro Asn Pro Ala Gly Cys Ser Tyr Gly Leu Asp Leu Asp Tyr Phe
 165 170 175
 Cys Tyr Ser Ser Asp Ser Glu Glu Glu Ala Asp Val Gln Pro Gln Gln
 180 185 190
 Ala Xaa Pro Pro Thr Lys Pro Asp Ala Leu Val Lys Ser Ala Val Arg
 195 200 205
 Ser Ala Met Arg Ser Glu Gln Ala Ser Ala Lys Arg Val Arg Phe Asp
 210 215 220
 Ala Ser Pro Glu Asp Thr Pro Ser Lys Leu Arg Thr Arg Pro Arg Ala
 225 230 235 240
 Thr Asp Pro Tyr Thr Gly Arg His Phe Ile Gly Met Gly Asp Ala Ala
 245 250 255
 Arg Val Thr Thr His Gly Ser Leu Ala Ala Ala Pro Ala Thr Pro Thr
 260 265 270
 Pro Ala Pro Arg Val Asp Leu Ser Thr Pro Gln Arg Ser Pro Gly Phe
 275 280 285
 Ile Pro Asn Lys Gln Gly Thr Phe Gln Leu Asp Tyr Asp Ala Phe Ser
 290 295 300
 Asp Asp Ser Glu Ser Ser Gly Ala Pro Ser Pro Lys Ser Pro Ala Ala
 305 310 315 320
 Lys Ser Val Thr Glu Thr Gln Thr Thr Thr Thr Ser Thr Glu Val Gln
 325 330 335
 Glu Arg

<210> 33268

<211> 86
 <212> PRT
 <213> A.fumigatus

<400> 33268
 Gly Leu Trp Ala Thr Gln Pro Ala Ala Glu Arg Ala Ser Leu Gly Leu
 1 5 10 15
 Arg Arg Ala Thr Leu Val Leu Leu Leu His Pro Arg Val Leu Arg Phe
 20 25 30
 Tyr Leu Arg Pro Arg Val Asn Asp Asn Cys Ser Ala Arg Val His Pro
 35 40 45
 Pro Pro Ser Ser Arg Gly Pro Phe Ile Val Asn Met Ala Glu Gln Met
 50 55 60
 Val Leu Arg Gly Thr Leu Glu Gly His Asn Gly Trp Val Thr Ser Leu
 65 70 75 80
 Ala Thr Ser Leu Glu Lys
 85

<210> 33269
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 33269
 Arg Asn Val Cys Phe Gly Arg Leu Trp Ala Leu Ile Glu His Val Asp
 1 5 10 15
 Lys Leu Ile Leu Thr Trp Met Phe Leu Ser Asn Ser Pro Asn Met Leu
 20 25 30
 Leu Ser Gly Ser Arg Asp Lys Thr Leu Ile Ile Trp Asn Leu Thr Arg
 35 40 45
 Asp Glu Gln Ala Tyr Gly Tyr Pro Lys Arg Ser Leu Glu Gly His Ser
 50 55 60
 His Ile Val Ser Asp Cys Val Cys Tyr Pro Lys Ser His
 65 70 75

<210> 33270
 <211> 156
 <212> PRT
 <213> A.fumigatus

<400> 33270
 Arg Asp Trp Leu Thr Ala Cys Val Phe Cys Ser Val Gln Val Ile Ser
 1 5 10 15
 Ser Asp Gly Ala Tyr Ala Leu Ser Ala Ser Trp Asp Lys Ser Leu Arg
 20 25 30
 Leu Trp Glu Leu Ala Thr Gly Glu Thr Thr Arg Thr Phe Val Gly His
 35 40 45
 Thr Ser Asp Val Leu Ser Val Ser Phe Ser Ala Asp Asn Arg Gln Ile
 50 55 60
 Val Ser Gly Ser Arg Asp Arg Thr Ile Lys Leu Trp Asn Thr Leu Gly
 65 70 75 80
 Asp Cys Lys Phe Thr Ile Thr Asp Lys Gly His Thr Asp Trp Val Ser
 85 90 95
 Cys Val Arg Phe Ser Pro Asn Pro Gln Asn Pro Val Ile Val Ser Ala
 100 105 110
 Gly Trp Asp Lys Leu Val Lys Val Arg Leu Ser Arg Ser Phe Pro Asp

	115		120		125										
Ala	Met	Tyr	Thr	Gln	Phe	Glu	Thr	Val	Cys	Pro	Asn	Asp	Val	Leu	His
	130				135						140				
Asn	Thr	Tyr	Leu	Leu	Leu	Gln	Ser	Leu	Leu	Trp	Pro				
145					150					155					

<210> 33271
 <211> 179
 <212> PRT
 <213> A.fumigatus

<400> 33271

Trp	Thr	Leu	Arg	Asn	Leu	Gly	Phe	Ala	Pro	Leu	Cys	Met	Gly	Pro	Thr
1			5						10					15	
His	Leu	Phe	Pro	Trp	Gly	Ile	Glu	Ala	Asn	Pro	Arg	Ile	Pro	Phe	Arg
			20					25					30		
Phe	Gly	Ser	Ser	Leu	Pro	Ala	Ala	Ser	Arg	Pro	Thr	Thr	Ser	Val	Thr
		35					40					45			
Pro	Val	Thr	Ser	Thr	Pro	Ser	Pro	Ser	Pro	Pro	Met	Asp	Pro	Ser	Ala
	50					55					60				
Pro	Pro	Val	Ala	Arg	Thr	Ala	Pro	Pro	Cys	Ser	Gly	Ile	Ser	Thr	Ser
65					70				75					80	
Pro	Ser	Thr	Ser	Thr	Pro	Ser	Thr	Leu	Ala	Thr	Arg	Ser	Thr	Pro	Ser
				85					90					95	
Ser	Ser	Pro	Pro	Thr	Ala	Thr	Gly	Ser	Ala	Pro	Pro	Pro	Pro	Ala	Pro
			100				105						110		
Ser	Pro	Ser	Ser	Ile	Ser	Arg	Arg	Arg	Ala	Arg	Leu	Met	Ser	Ser	Ser
		115				120					125				
Pro	Ser	Ser	Ser	Arg	Arg	Ala	Pro	Arg	Pro	Val	Ser	Pro	Ser	Val	Ser
	130					135					140				
Leu	Ser	Pro	Gly	Ala	Leu	Met	Ala	Arg	Leu	Cys	Ser	Leu	Val	Thr	Leu
145					150					155					160
Thr	Thr	Arg	Ser	Val	Pro	Gly	Val	Ser	Cys	Arg	Gly	His	Arg	Gly	Leu
				165					170					175	
Thr	Ser	Val													

<210> 33272
 <211> 284
 <212> PRT
 <213> A.fumigatus

<400> 33272

Pro	Arg	Val	Cys	Phe	Val	Pro	Cys	Arg	Ser	Ser	Pro	Pro	Thr	Val	Pro
1			5						10					15	
Thr	Leu	Cys	Leu	Pro	Leu	Gly	Thr	Ser	Pro	Ser	Ala	Cys	Gly	Ser	Ser
			20					25					30		
Leu	Pro	Ala	Arg	Pro	Leu	Val	Pro	Ser	Leu	Ala	Thr	Pro	Ala	Thr	Ser
		35					40					45			
Ser	Pro	Ser	Pro	Ser	Pro	Pro	Thr	Thr	Ala	Arg	Ser	Ser	Pro	Val	Leu
	50					55					60				
Val	Thr	Ala	Pro	Ser	Ser	Cys	Gly	Thr	Pro	Ser	Ala	Thr	Ala	Ser	Leu
65					70				75					80	
Pro	Ser	Pro	Thr	Arg	Ala	Thr	Pro	Thr	Gly	Phe	Pro	Ala	Phe	Ala	Ser
				85					90					95	
Ala	Pro	Thr	Pro	Arg	Thr	Pro	Ser	Ser	Phe	Pro	Leu	Ala	Gly	Thr	Ser


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          100              105              110
Ser Ser Arg Tyr Val Tyr Pro Asp Leu Ser Leu Thr Arg Cys Ile Pro
          115              120              125
Asn Ser Lys Pro Ser Ala Gln Met Met Phe Cys Ile Ile Arg Ile Cys
          130              135              140
Tyr Phe Arg Ala Phe Tyr Gly His Glu Thr Asn Asn His Gln Cys Pro
          145              150              155              160
Asp Gly His Phe Ala Ile Leu Val Leu His Leu Tyr Ala Trp Asp Gln
          165              170              175
Leu Ile Tyr Ser Pro Gly Gly Leu Lys Leu Thr Gln Gly Tyr Pro Leu
          180              185              190
Gly Leu Gly Ala Arg Phe Leu Pro Pro Asp Arg Pro His Arg Ser
          195              200              205
His Arg Leu His Gln His Arg His His Leu Pro Arg Trp Ile Pro Leu
          210              215              220
Arg Leu Arg Trp Gln Gly Arg His His His Ala Leu Gly Ser Gln Arg
          225              230              235              240
Val Gln Ala Pro Leu Leu Pro Pro Arg Trp Arg Arg Asp Pro Arg Pro
          245              250              255
Arg Leu Leu Pro Gln Pro Leu Leu Ala Leu Arg Arg His Arg Gln Leu
          260              265              270
His His His Leu Arg Ser Arg Glu Glu Glu Gln Gly
          275              280

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<210> 33273

<211> 141

<212> PRT

<213> A.fumigatus

<400> 33273

```

Val Trp Glu Leu Ala Ser Cys Arg Leu Gln Thr Asp His Ile Gly His
1          5          10          15
Thr Gly Tyr Ile Asn Thr Val Thr Ile Ser Pro Asp Gly Ser Leu Cys
          20          25          30
Ala Ser Gly Gly Lys Asp Gly Thr Thr Met Leu Trp Asp Leu Asn Glu
          35          40          45
Ser Lys His Leu Tyr Ser Leu His Ala Gly Asp Glu Ile His Ala Leu
          50          55          60
Val Phe Ser Pro Asn Arg Tyr Trp Leu Cys Ala Ala Thr Ala Ser Ser
          65          70          75          80
Ile Thr Ile Phe Asp Leu Glu Lys Lys Ser Lys Val Asp Glu Leu Lys
          85          90          95
Pro Glu Phe Ile Glu Lys Ser Ser Lys Ala Arg Glu Pro Glu Cys Ile
          100          105          110
Ser Leu Ala Trp Ser Ala Asp Gly Gln Thr Leu Phe Ala Gly Tyr Thr
          115          120          125
Asp Asn Lys Ile Arg Ala Trp Gly Val Met Ser Arg Ala
          130          135          140

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<210> 33274

<211> 318

<212> PRT

<213> A.fumigatus

<400> 33274

```

Leu Ala Ser Ile Leu Ser Gln Lys Arg Trp Trp Glu Ser Ile Ser Gln

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```

1           5           10           15
Val Ser Arg Met Leu Glu Lys Ala Gly Leu Ala Lys Pro Ala Ile Gln
20           25           30
Val Leu Glu Arg Thr Lys Thr Glu Cys Leu Lys Trp Val Glu Glu Gly
35           40           45
Arg Lys Lys Lys Asp Ala Gln Arg Pro Glu Ala Glu Ala Val Thr Glu
50           55           60
Ser Ile Gln Ile Asp Asp Pro Asp Ala Leu Val Met His Gln Lys Met
65           70           75           80
Lys Glu Leu Asp Glu Tyr Glu Asp Arg Gln Arg Asp Lys Val Leu Lys
85           90           95
Lys Val Val Gly Ile His Met Lys Leu Ala Glu Leu Tyr Ala Ser Asp
100          105          110
Tyr Ile Gln Asp Glu Lys Lys Ala Glu Gly Tyr Gln Glu Ala Ala Val
115          120          125
Glu Leu Cys Leu Lys Glu Leu Arg Arg Arg Gln Glu Leu Gly Leu Pro
130          135          140
Val Gly Ser Ala Ser Gln Asp Ser Thr Ala Trp Leu Asn Leu Ser Glu
145          150          155          160
Ile Ala Thr Ala Leu Thr Asp Leu Gly Gln Thr Tyr Leu Lys Gln Glu
165          170          175
Lys Asn Glu Leu Ala Met Pro Leu Leu Leu Arg Ala Leu Asp Leu Leu
180          185          190
Arg Thr Asp Glu Gly Ser Thr Pro Ser Cys Lys Gln Val Thr Leu Leu
195          200          205
Ala Asn Val Ser Thr Ala Ile Thr Gly Glu Leu His Lys Lys Thr Pro
210          215          220
Ser Arg Gly Ser Thr Ala Ala Pro Gln Gln Leu Ile Asp Ser Gly Asn
225          230          235          240
Gln Trp Ala Gln Lys Ala Leu Asp Val Ala Ala Asn Leu Gln Pro Pro
245          250          255
Ile Arg Asp Glu Glu Cys Asp Val Ser Cys Ile Ala Ala Met Tyr Asn
260          265          270
Leu Gly Glu Ile Ala His Leu Gln Gly Lys Arg Lys Glu Ala Glu Gln
275          280          285
Tyr Trp Lys Glu Ala Lys Ser Leu Ala Arg Gly Leu Gly Leu Glu Glu
290          295          300
Asn Ala Ala His Val Glu Glu Ala Leu Ala Gln Leu Thr Lys
305          310          315

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<210> 33275

<211> 184

<212> PRT

<213> A.fumigatus

<400> 33275

```

Thr Pro Lys Arg Ala Ile Leu Thr His Glu Gln His Gln Leu Gly Thr
1           5           10           15
Lys Val Ser Pro Ala Asp Phe Lys Pro Glu Phe Arg Ala Glu Thr Tyr
20           25           30
Pro Pro Gly Thr Ala Pro Ala Ser Asn Ser Tyr Thr Pro Asn Thr Thr
35           40           45
Gly Glu Ser Gly Gly Gln Ala Leu Asn Pro Leu Val Glu Arg Ser His
50           55           60
Gly Lys Glu Ala Val Lys Thr Thr Ala Glu Ser Thr Leu Arg Gly Ala
65           70           75           80

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13229

Thr Ser Lys Asp Val His Arg Gly Leu Gly His Pro Gly Ser Gly Gln
 85 90 95
 Thr Lys Thr Glu Ile Lys His Asp Gly Gln His His Arg Lys His Glu
 100 105 110
 Gly Ala Gly Leu Glu Gly Val Gly Ser Tyr Arg Glu Asp Lys Phe Glu
 115 120 125
 Arg Thr Leu Ala Asp Gln Arg Gly Ile Glu Arg Glu Glu Ala Arg Pro
 130 135 140
 Asn Asp His Gly Asp Lys Gly Val Ser Ala Ala Glu Asp Ile Pro Pro
 145 150 155 160
 Gln Ser Ala Glu Met Ala Ala His Glu Trp Lys Tyr Glu Pro Gly Thr
 165 170 175
 Lys Lys Asp Asn Ala Ala Arg His
 180

<210> 33276

<211> 141

<212> PRT

<213> A.fumigatus

<400> 33276

Tyr Thr Cys Ser Ile Val Leu Gln Lys Leu Ile Asp Gly Gly His Lys
 1 5 10 15
 Val Ile Ile Ile Thr His Ala Tyr Lys Gly Arg Thr Gly Val Arg Tyr
 20 25 30
 Leu Thr Asn Gly Leu Lys Val Tyr His Ile Pro Phe Phe Val Ile Tyr
 35 40 45
 Arg Glu Ser Thr Met Pro Thr Val Phe Ser Phe Phe Pro Leu Phe Arg
 50 55 60
 Asn Ile Val Ile Arg Glu Gln Val Gln Ile Val His Gly His Gly Ser
 65 70 75 80
 Met Ser Ser Leu Cys His Glu Ala Ile Leu His Ala Arg Thr Met Gly
 85 90 95
 Leu Arg Thr Val Phe Thr Asp His Ser Leu Phe Gly Phe Ala Asp Ala
 100 105 110
 Gly Ser Ile Leu Ala Asn Lys Met Leu Lys Phe Thr Leu Ser Asp Val
 115 120 125
 Asp His Val Ile Cys Val Ser His Thr Trp Tyr Val Arg
 130 135 140

<210> 33277

<211> 343

<212> PRT

<213> A.fumigatus

<400> 33277

Val Leu Pro Gly Asp Ser Lys Glu Asn Thr Val Leu Arg Ala Ser Leu
 1 5 10 15
 Asp Pro Leu Met Val Ser Val Ile Pro Asn Ala Val Val Ala Glu Asn
 20 25 30
 Phe Arg Pro Leu Ser His Asp Ala Gln Lys Gly Glu Arg Thr Ser Gly
 35 40 45
 Glu Ile Glu Arg Arg Pro Ser Pro Ala Pro Ile Gly Pro Asp Asp Thr
 50 55 60
 Ile Thr Ile Val Val Ile Ser Arg Leu Phe Tyr Asn Lys Gly Thr Asp
 65 70 75 80

Leu Leu Ile Ala Val Ile Pro Arg Ile Leu Ala Ser His Pro Asn Val
 85 90 95
 Arg Phe Ile Val Ala Gly Ser Gly Pro Gln Ala Ile Asp Leu Glu Gln
 100 105 110
 Met Leu Glu Arg Asn Val Leu Gln Asp Lys Val Glu Leu Leu Gly Ser
 115 120 125
 Ile Arg His Glu Glu Val Arg Asp Val Met Val Arg Gly His Ile Tyr
 130 135 140
 Leu His Pro Ser Leu Thr Glu Ala Phe Gly Thr Val Ile Val Glu Ala
 145 150 155 160
 Ala Ser Cys Gly Leu Tyr Val Val Cys Thr Arg Val Gly Gly Ile Pro
 165 170 175
 Glu Val Leu Pro Gln His Met Thr Thr Phe Ala Lys Pro Glu Glu Asp
 180 185 190
 Asp Leu Val Leu Ala Thr Glu Lys Ala Ile Ala Ala Leu Arg Ser Asn
 195 200 205
 Lys Val Arg Thr Asp Arg Phe His Asp Gln Val Lys Met Met Tyr Ser
 210 215 220
 Trp Thr Asp Val Ala Gln Arg Thr Glu Arg Val Tyr Lys Gly Ile Thr
 225 230 235 240
 Gly Asp Ile Ser Pro Glu Glu Phe Tyr Gly Tyr Tyr Pro Gly Gln Gly
 245 250 255
 Trp Glu Ala Asn Ala Asp Arg Val Arg Ser Phe Ala Leu Ile Asp Arg
 260 265 270
 Leu Lys Arg Tyr Tyr Gly Cys Gly Val Trp Ala Gly Lys Leu Phe Cys
 275 280 285
 Leu Cys Ala Val Ile Asp Phe Leu Leu Tyr Val Phe Leu Glu Met Trp
 290 295 300
 Phe Pro Arg Ser Asn Ile Asp Ile Ala Arg Ser Trp Pro Lys Lys Leu
 305 310 315 320
 Gly Pro Asn Gly Glu Lys Ser His His Leu Asn Asn Arg Ala Arg Thr
 325 330 335
 Ser Gln Glu Arg Leu Ala Pro
 340

<210> 33278

<211> 587

<212> PRT

<213> A.fumigatus

<400> 33278

Leu Pro Arg Ser Glu Gly Pro Ser Ser Arg Leu Val Lys Thr Gln Asn
 1 5 10 15
 Arg Asp Ser Asn Phe Asp Val Leu Asp Tyr Val Asp Pro Leu Ile Gly
 20 25 30
 Thr Ser Asn Gly Gly His Ser Phe Ala Gly Ala Thr Leu Pro Phe Gly
 35 40 45
 Met Ala Lys Ala Val Ala Asp Thr Gln Gly Glu Asn Gln Ala Gly Phe
 50 55 60
 Ala Tyr Asp Thr Gln Val Val Thr Gly Phe Ser His Met His Asp Ser
 65 70 75 80
 Gly Thr Gly Gly Ser Pro Ser Leu Gly Asn Phe Pro Leu Phe Ala His
 85 90 95
 Ala Ser Cys Pro Gly Asp Asp Leu Asn Gln Cys Lys Trp Gln Gln Pro
 100 105 110
 Asp Arg Ala Val Ala Trp Val Pro Asn Ser Pro Lys Ala Arg Pro Gly

13232

Thr Tyr Glu Gly Ser Cys Trp Leu Tyr Thr Leu

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<210> 33279
<211> 117
<212> PRT
<213> A.fumigatus
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<220>
<221> UNSURE
<222> (115)
<223> Identity of amino acid sequences at the above locations are unknown.
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<400>	33279
Pro Ala Ala Leu Ser Tyr Val Pro His Asp Met Ala Ser Leu Ile Thr	
1	5 10 15
Arg Leu Gly Gly Pro Glu Thr Phe Thr Ser Arg Leu Ser Tyr Leu His	
	20 25 30
Asp Ser Gly Ile Leu Tyr Val Gly Asp Glu Gln Ala Phe Leu Pro Val	
	35 40 45
Phe Gln Phe His Tyr Ser Gly Arg Pro Gly Leu Ser Ala Ala Arg Ala	
	50 55 60
His Phe Tyr Ile Pro Ser Gln Phe Asn Ala Thr Ile Pro Gly Ile Pro	
65	70 75 80
Gly Asn Asp Asp Gly Gly Ala Met Gly Ala Phe Ala Val Leu Ser Met	
	85 90 95
Met Gly Leu His His Gly Ala Gly Arg Ile Arg Arg Trp Arg Tyr Val	
	100 105 110
Tyr Gln Xaa Gln Gln	
	115

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<210> 33280
<211> 316
<212> PRT
<213> A.fumigatus
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<400>	33280														
His	Ala	Leu	Ser	Thr	Asp	Val	Lys	Leu	Gln	Leu	Ala	Pro	Ala	Tyr	Gly
1				5					10					15	
Asp	Phe	Leu	Ala	Ala	Leu	Pro	Pro	Asn	Pro	Ser	Thr	Ser	Ala	Leu	Ala
			20					25					30		
Gly	Lys	Met	Thr	Asp	Lys	Leu	Val	Ala	Glu	Phe	Arg	Tyr	Leu	Leu	Ala
		35					40					45			
Gln	Ala	Thr	Gly	Ser	Thr	Ala	Lys	Phe	Leu	Gln	Tyr	Leu	Thr	Tyr	Gly
	50					55					60				
Tyr	Met	Ile	Asp	Asn	Ile	Ala	Leu	Leu	Ile	Thr	Gly	Thr	Leu	His	Glu
65				70						75				80	
Arg	Asp	Thr	Arg	Glu	Leu	Leu	Glu	Arg	Cys	His	Pro	Leu	Gly	Trp	Phe
			85						90					95	
Glu	Thr	Leu	Pro	Val	Leu	Cys	Val	Ala	Thr	Asn	Ile	Glu	Glu	Leu	Tyr
			100					105					110		
Asn	Ser	Val	Leu	Ile	Glu	Thr	Pro	Leu	Ala	Asp	Tyr	Phe	Lys	Gly	Ser
		115					120					125			
Leu	Ser	His	Gln	Asp	Leu	Asp	Glu	Leu	Asn	Ile	Glu	Ile	Val	Arg	Asn
	130					135					140				

Thr Leu Tyr Lys Asn Tyr Leu Glu Asp Phe His Asn Phe Val Asn Thr
 145 150 155 160
 His Pro Asp Phe Lys Gly Thr Pro Thr Gln Glu Val Met Ser Glu Leu
 165 170 175
 Leu Gln Phe Glu Ala Asp Arg Arg Ala Ile Asn Ile Thr Leu Asn Ser
 180 185 190
 Phe Gly Thr Glu Leu Ser Lys Gln Glu Arg Arg Lys Leu Tyr Pro Glu
 195 200 205
 Phe Gly Lys Leu Tyr Pro Glu Gly Ser Leu Met Leu Ser Arg Ala Asp
 210 215 220
 Asp Leu Glu Gly Val Ser Leu Ala Val Ser Val Asn Ala Asp Tyr Lys
 225 230 235 240
 Ala Phe Phe Asp Ala Val Gly Leu Ser Gln Gly Gly Gly Gly Phe
 245 250 255
 Gly Met Gly Gly Gly Ser Asp Gly Lys Ser Leu Glu Asp Leu Phe Tyr
 260 265 270
 Gln Lys Glu Met Glu Leu Cys Lys Ile Val Phe Thr Arg Gln Phe Thr
 275 280 285
 Pro Ala Val Val Tyr Ala Trp Met Arg Leu Lys Glu Gln Val Arg Arg
 290 295 300
 Ser Ser Ser Met Thr Ile Phe Pro Ser Gln Arg Arg
 305 310 315

<210> 33281

<211> 245

<212> PRT

<213> A.fumigatus

<400> 33281

Arg Ala Ser Arg Asn Ser Thr Val Leu Leu Gln Leu Trp Lys Lys Trp
 1 5 10 15
 Leu Arg Leu Trp Lys Glu Arg Leu Leu Ala Leu Pro Ala Cys Trp
 20 25 30
 Met Arg Leu Arg Met Arg Arg Arg Phe Leu Trp Pro Leu Pro Ile Pro
 35 40 45
 Ser Ser Val Arg Asp Met Asn Ile Leu Arg Ser Gln Ile Thr Gln Phe
 50 55 60
 Leu Ile Leu Cys Leu Pro Lys Gly Asn Ala Ile Gly Lys Leu Pro Gly
 65 70 75 80
 Met Ser Ile Gln Leu Val Ala Asp Ser Thr Thr Thr Asp Ile Phe Arg
 85 90 95
 Ala Ile Arg Glu His Leu Pro Thr Leu Ile Pro Gly Leu Leu Pro Gln
 100 105 110
 Asp Met Ser Thr Met Ser Leu Gly Leu Ser His Ser Leu Ala Arg His
 115 120 125
 Lys Leu Lys Phe Ser Pro Asp Lys Ile Asp Thr Met Ile Val Gln Ala
 130 135 140
 Ile Gly Leu Leu Asp Asp Leu Asp Lys Glu Leu Asn Thr Tyr Ala Met
 145 150 155 160
 Arg Val Lys Glu Trp Tyr Gly Trp His Phe Pro Glu Leu Ala Lys Ile
 165 170 175
 Leu Asn Asp Asn Ile Ala Tyr Ala Lys Leu Val Leu Lys Met Gly Met
 180 185 190
 Arg Ser Asn Trp Glu Thr Ala Asp Leu Thr Glu Ile Leu Pro Glu Glu
 195 200 205
 Leu Glu Ala Thr Val Lys Ala Ala Ala Asp Arg Ser Met Gly Thr Glu

13234

210	215	220
Ile Ser Gln Glu Asp Leu Glu Asn Ile Gln Ala Leu Ala Glu Gln Val		
225	230	235
Val Gly Phe Ala Glu		240
245		

<210> 33282
 <211> 134
 <212> PRT
 <213> A.fumigatus

<400> 33282

Thr His Ile Ala Asp Pro Ser Ser Pro Val Val Lys Ile Leu Pro Pro	
1	15
Val Pro Ala Asn Phe Arg Val Ala Asn Lys Asp Thr Thr Leu Pro Val	
20	30
Gly Gly Gly Pro Asp Gln Lys Ser Pro Val Tyr Ile Arg Lys Gly Thr	
35	45
Ile Val Thr Tyr Ser Val Tyr Ala Met His Arg Arg Thr Asp Phe Tyr	
50	60
Gly Pro Asp Ala Asn Glu Phe Arg Pro Glu Arg Trp Glu Glu Asn Gly	
65	80
Lys Arg Gly Trp Glu Tyr Leu Pro Phe Asn Gly Gly Pro Arg Ile Cys	
85	95
Leu Gly Arg Glu Phe Leu Leu Ser Leu Thr Arg Pro Gln Phe Leu Ala	
100	110
Asn Ile Cys Arg Thr Ile Arg Thr His Gly Gly Gln Leu His Asp Cys	
115	125
Gln Val Thr Ser Ala Ile	
130	

<210> 33283
 <211> 341
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (325)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 33283

Gln Val Gln Ile His Gln Leu Arg Thr Leu Leu Ser Gly Arg Leu Ile	
1	15
Glu Pro Ile Ile Pro Ile Ile Asn Pro Lys Val Ala Ser Arg Arg Pro	
20	30
Leu Pro Lys Ser Pro Arg Val Leu Phe Glu Gln Leu Ser Gln Thr Ala	
35	45
Arg Ala Ser Val Ala Glu Val Gln Glu Phe Gln Ala Met Trp Arg Ser	
50	60
Pro Glu Met Lys Ala Ile Trp Asp His Val Asp Ala Arg Ile Lys Gln	
65	80
Asn Gly Gly Gln Leu Leu Gln Pro Thr Gly Met Trp Glu Gln Asp Tyr	
85	95
Asp Val Leu Leu Glu Glu Leu Glu Lys Glu Glu Gln Ala Gln Lys Glu	
100	110

Gln Gln Gln Arg Ala Lys Glu Glu Glu Glu Arg Ala Lys Ile Gln Gly
 115 120 125
 Val Glu Gly Gly Trp Arg Thr Ile Val Glu Thr Phe Thr Arg Arg Asn
 130 135 140
 Leu Pro Gly Ile Arg Val Met Ala His Gln Asp Gln Pro Arg Ile Thr
 145 150 155 160
 Val Val Ser Val Lys Ala Gly Met Ala Phe Gln Leu Gln Ala Val Asn
 165 170 175
 Gly Asp Gly His Asp Met Val Asp Trp Arg Val Gln Glu Leu Ala Ala
 180 185 190
 Pro Gly Arg Pro Lys Thr Lys Leu Glu Thr Ala Val Ala Ala Cys Leu
 195 200 205
 Asn Ala Arg Pro Arg Gln Trp Asp Leu Ala Tyr Leu Leu Val Ser Ser
 210 215 220
 Asn Ile Asp Ile Asn Asn Arg Tyr Asn Gly Thr Arg Leu Thr Leu Asn
 225 230 235 240
 Ser Gly His Asp Ser Leu Leu Leu Arg Arg Gln Thr Asp Ala Val Arg
 245 250 255
 Glu Met Arg Gln Asn Asp Arg Gln Arg Arg Ala Thr Ala Leu Arg Pro
 260 265 270
 Gln Ala Gln Pro Pro Pro Ile Val Pro Arg Pro Thr Ile Pro Leu Gly
 275 280 285
 Ser Ile Pro Pro His Leu His Arg Ser Ser Pro Gly Leu Ser Pro Tyr
 290 295 300
 Leu His Leu Ile Met His Pro Met His Asn Ile Met Pro Ala Gly Tyr
 305 310 315 320
 Ser Pro Pro Pro Xaa Ser Gln Tyr Pro Pro Arg Lys Leu Asn Gly Pro
 325 330 335
 Leu Leu Leu Pro Pro
 340

<210> 33284
 <211> 60
 <212> PRT
 <213> A.fumigatus

<400> 33284
 Leu Thr Ser Ala Glu Gln Tyr Ala Leu Thr Glu Ala Ser Phe Thr Ile
 1 5 10 15
 Val Lys Leu Leu Gln Arg Phe Asp Arg Ile Glu Asn Gly Asp Pro Asp
 20 25 30
 Leu Ile Glu Pro Ile Gln Gln Thr Asn Leu Thr Leu Ala His Asp Arg
 35 40 45
 Gly Val Tyr Ile Arg Leu Tyr Ser Ser Lys Ala Leu
 50 55 60

<210> 33285
 <211> 79
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (63)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 33285

Pro Thr Thr Pro Arg Asn Cys Pro Pro Ser Ala Gly Pro Thr Pro Ser
 1 5 10 15
 Asn Arg Pro Lys Ala Asn His Ser Ser Gly Lys His Thr Thr Pro Pro
 20 25 30
 Ala Ser Ile Leu Pro Arg Ser Leu Ala Leu Pro Ser Pro Asn His Ala
 35 40 45
 Pro His Ala Gln His His Ala Arg Arg Ile Leu Pro Pro Pro Xaa Ile
 50 55 60
 Pro Ile Ser Pro Pro Glu Ile Lys Trp Ala Pro Pro Pro Ser
 65 70 75

<210> 33286

<211> 530

<212> PRT

<213> A.fumigatus

<400> 33286

Arg Leu Asp Leu Phe Asp Leu Glu Glu Phe Tyr Gln Arg Leu Ala Asn
 1 5 10 15
 Trp Val Gly Asn Pro Thr Val Asp Glu Asp Thr Val Ser Ser Ile Phe
 20 25 30
 Tyr Leu Val Leu Ala Ile Gly Val Gln Val Ser Glu Val Asn Gln Asp
 35 40 45
 Leu Ala Glu Gln Tyr Phe Val Ser Gly Arg Gln Leu Ala Phe Ser Ala
 50 55 60
 Phe Thr Glu Thr Pro Ser Ile Tyr Thr Ile Gln Ser Tyr Val Leu Ile
 65 70 75 80
 Ser Met Tyr Met Leu Gly Ala Cys Arg Arg Asn Gly Ala Phe Met Asn
 85 90 95
 Leu Gly Ile Ala Leu Arg Ala Ala Tyr Ala Val Gly Ile His Arg Arg
 100 105 110
 Asp Ala Asn Ala Leu Phe Cys Thr Arg Glu Arg Arg Ala Arg Glu Arg
 115 120 125
 Val Trp Lys Ser Leu Arg Met Ile Asp Leu Phe Leu Ser Ala Ser Leu
 130 135 140
 Gly Arg Pro Pro Ala Thr Ser Asp Phe Asp His Asp Val Arg Asp Pro
 145 150 155 160
 Ala Thr Leu Ala Gly Glu Gln Gln Leu Pro Arg Pro Glu Ala Gln Leu
 165 170 175
 Ser Gln Cys Val Val Ala Leu Cys Arg Ile Phe Asp Arg Ile Leu Thr
 180 185 190
 Glu Val Tyr Met Lys Gln Val Val Ser Ile Asn Val Ala Glu Thr Ile
 195 200 205
 Ser Asn Gln His Arg Ala Trp Val Arg Tyr Leu Ala Thr Phe Phe Ser
 210 215 220
 Gly Gln Thr Glu Arg Leu Ser Ser Lys Asn Leu Glu Ser Met Leu Ala
 225 230 235 240
 Ala Ala His Val Phe Gly Ala Tyr Tyr Trp Ser Ile Ile Leu Leu Thr
 245 250 255
 Arg Pro Phe Phe Ile Phe Arg Val Ser Gln Tyr Val Lys Ser Lys Ser
 260 265 270
 Asp Pro Gly Ile Ser Ser Asn Asp Pro Arg Ala Ser Ala Ser Arg Ile
 275 280 285
 Ala Ile Phe Ser Asp Ala Cys Val Tyr Ser Ala Leu Arg Cys Leu Asn
 290 295 300

Ile Val Asp Asp Leu Ser Arg Phe Glu Ala Leu Pro Arg Arg Leu Pro
 305 310 315 320
 Phe Leu Ile Asn Ser Val Phe Asn Ser Ala Val Val Leu Gly Ala Ala
 325 330 335
 Phe Phe Ala Glu Tyr Asp Asn Leu Leu Pro Leu Glu Glu Gly Met Asp
 340 345 350
 Lys Ser Glu Lys Phe Leu Gly Leu Phe Val Pro His Asp Pro His Ala
 355 360 365
 Cys Arg Phe Tyr Gln Ile Ile Lys Tyr Leu Arg Gly Ala Val Ala Glu
 370 375 380
 Tyr Val Arg Arg Arg Asn Arg Gln Trp Met Glu Arg Arg Ser Lys Gln
 385 390 395 400
 Val Asp Gln Leu Phe Gly Gln Val Gly Leu Arg Ser Glu Pro Ser Ala
 405 410 415
 Ser Ser Asp Asp Val Val Ile Ser Arg Asn Gly Glu Pro Leu Ala Pro
 420 425 430
 Ser Pro Ser Ser Pro Glu Lys Leu Ala Thr Gly Ser Leu Ser Ala Gln
 435 440 445
 Gly Ala Gln Pro Thr Ala Ser Thr Gly Glu Ser Glu Asn Asp Ile Trp
 450 455 460
 Asn Thr Leu Cys Gly Thr Gln Gly Ala Thr Ala Leu Pro Tyr Asp Ser
 465 470 475 480
 Thr Ile Ser Thr Leu Thr Thr Thr Gly Ile Pro Ile Gly Cys Ser Pro
 485 490 495
 Gly Gly Thr Leu Thr Thr Ala Gln Pro Gly Met Asp Thr Asp Ala Gly
 500 505 510
 Gly Arg Arg Pro Ser Phe Pro Arg Gly Asp Glu Gly Ala Ala Lys Ser
 515 520 525
 Ala Leu
 530

<210> 33287

<211> 71

<212> PRT

<213> A.fumigatus

<400> 33287

Ala Ile Tyr Tyr Phe Ser Leu Leu Arg Asn Leu Leu Asp Ile Asn Asp
 1 5 10 15
 Asn Gly Asp Lys Thr His His Leu Ser Pro Phe Ser Ile Leu Trp Ser
 20 25 30
 Thr Val Ile Val Val Thr Lys Tyr Ser Ala Thr Ser Ser Ser Leu Leu
 35 40 45
 Val Leu Pro Arg Gly Ser Leu Phe Ala Ala Ser Asp Leu Gln Tyr Ser
 50 55 60
 Leu Phe Leu Pro Phe Pro Pro
 65 70

<210> 33288

<211> 93

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (86), (87), (88), (91)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33288

Gln	Tyr	Pro	His	Thr	Gly	Tyr	Gln	Arg	Asn	Ser	Cys	Gly	Tyr	Cys	Lys
1				5				10					15		
Ser	Asp	Asn	Gly	Ser	Glu	Cys	Val	Phe	Phe	Ile	Thr	Cys	Pro	Thr	Ser
		20					25					30			
Ser	His	Leu	Pro	Ser	Phe	Ser	Ser	Leu	Cys	Phe	Asn	Ala	Phe	Ala	Asp
		35					40				45				
Gln	Tyr	Met	Gln	Val	Leu	Pro	Thr	Thr	Leu	Val	Leu	Phe	Gln	Tyr	Ala
	50					55				60					
Arg	Asn	Ile	Thr	Ile	Ser	Ser	Ser	Ile	Ala	Ala	Val	Phe	Thr	Thr	Gly
65					70					75					80
Trp	Gln	Gly	Arg	Ala	Xaa	Xaa	Xaa	Ser	Ile	Xaa	Thr	Pro			
				85				90							

<210> 33289

<211> 1060

<212> PRT

<213> A.fumigatus

<220>

<221> UNSURE

<222> (1060)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 33289

Gly	Tyr	Leu	Ser	Ser	Asp	Lys	Asp	Met	Ala	Ile	Pro	Arg	Thr	Pro	Val
1			5					10					15		
Lys	Ser	Gly	Gln	Glu	Leu	Tyr	Gln	Leu	Ile	Glu	Ile	Leu	Asn	Gln	Gln
		20					25					30			
Phe	His	Leu	Glu	Ile	Pro	Asn	Pro	Arg	Ile	Tyr	Ser	Pro	Ser	Val	Gly
		35					40				45				
Arg	Asn	Glu	Gln	Thr	Pro	Arg	Trp	Arg	Thr	Tyr	Lys	Gly	Leu	Lys	Arg
	50					55				60					
Leu	Tyr	Phe	Asn	Arg	Glu	Val	Gly	Leu	Gly	Arg	Ile	Leu	Asn	Asp	Phe
65				70					75					80	
Glu	Glu	Trp	Val	His	Ser	Arg	Pro	Thr	Ser	His	Leu	Arg	Thr	His	Ser
			85					90					95		
Gly	Val	Gly	Arg	Ile	Ser	Gln	Ser	Arg	Ser	Ala	Leu	Ser	Arg	Arg	Asp
		100					105					110			
Gln	Leu	Met	Val	Glu	Asp	Ala	Thr	Val	Ile	Ser	Thr	His	Glu	Lys	Asn
		115					120					125			
Glu	Arg	Leu	Glu	Tyr	Leu	Leu	Lys	Leu	Val	Asp	Asp	Glu	Ile	Tyr	Leu
	130					135				140					
Leu	Ser	Arg	Gly	Ser	Val	Arg	Val	Cys	Ala	Asp	Asp	Asn	Arg	Met	Gln
145					150					155					160
Ile	Ser	Pro	Ser	Thr	Val	Leu	Arg	Pro	Pro	Lys	Arg	Arg	Ile	Pro	Glu
			165					170					175		
Glu	Glu	Glu	Asp	Glu	Glu	Tyr	His	Thr	Ala	Pro	Asn	Ser	Pro	Val	
		180					185					190			
Lys	Asn	Pro	Thr	Val	Gln	Asp	His	Val	Ala	Val	Asp	Gly	Asp	Glu	Leu
		195					200					205			
Gln	Pro	Leu	Ala	Thr	Asp	Arg	Asp	Asn	Trp	Asn	Thr	Gly	Ser	Ser	Leu
	210					215					220				
Met	Val	Asn	Glu	Ser	Val	His	Val	Phe	Lys	Thr	Pro	Met	Ala	Leu	Asp

225 230 235 240
 Arg Gly Lys Glu Pro Ser Arg Phe Leu Glu Lys Leu Thr Ala Pro Asp
 245 250 255
 Asn Val His Arg Tyr Asp Thr Ala Pro Ser Ala His Ala Gly Leu Ser
 260 265 270
 Phe Thr Phe Ser Ser Val Ala Thr Ser Phe Gly Arg Glu Ser Arg Arg
 275 280 285
 Gln Leu Asp Thr Ser Phe Thr Ser Thr Val Thr Asp Val Thr Glu Pro
 290 295 300
 Met Val Asp Ser Asp Ser Met Tyr Glu Asp Ser Val Val Gly His Leu
 305 310 315 320
 Ile Ser His Glu Leu Asp Val Thr Ile Asp Asp Ile Gly Pro Met Thr
 325 330 335
 Glu Thr Pro Pro Glu Glu Ala Pro His Ser Ile Glu Gly Arg Ile Met
 340 345 350
 Glu Gln Leu Leu His Ser Gly Pro Phe Ser Leu Asp Gln Pro Phe Pro
 355 360 365
 Lys Ser Ile Pro Leu Arg Tyr Arg Tyr Glu Leu Glu Arg Val Gly Arg
 370 375 380
 Ala Trp Gly Val Pro Leu Gly Arg Met Leu Val Gly Ser Ser Met Ser
 385 390 395 400
 Phe Lys Ser Tyr Gly Glu Phe Trp Lys Trp Ile Glu Gly His Asn Gln
 405 410 415
 Arg Cys Gly Lys Pro Leu Pro Glu Lys Ser Thr Ser Lys Ala Trp Glu
 420 425 430
 Ala Val Thr Gly Ser Phe Lys Thr Asp Lys His Ser Glu Val Val Ile
 435 440 445
 Leu Ser Gly Asp Leu Asp Trp Cys Ser Glu Ser Glu Pro Gly Ile Leu
 450 455 460
 Lys Phe Lys Leu Asn Pro Leu Lys Thr Glu Arg Thr Cys Arg Phe Arg
 465 470 475 480
 Arg Arg Phe Gly Ser Asp Arg Tyr Leu Ser Leu Thr Met Pro Ala Pro
 485 490 495
 Ala Arg Pro Pro Arg His Leu Arg Phe Ser Ser His Pro Thr Leu Leu
 500 505 510
 Arg Glu Ser Leu Ala Leu Trp Leu Thr Gln His Val His Arg Cys Leu
 515 520 525
 Gly Arg Thr Trp Arg Pro Phe Tyr Val Glu Asp Val Lys Thr Lys Arg
 530 535 540
 Lys Val Lys Thr Thr Glu Pro Arg Phe Arg Val Glu Phe Phe Ala Ile
 545 550 555 560
 Asp Gly Val Asp Phe Gly His Ser Pro Gly Thr Val Pro Ser Ile Ala
 565 570 575
 Pro Gln Gly Gln Asp Ser Asp Asn His Thr Pro Met Ser Leu Glu Ala
 580 585 590
 Leu Ile Asp Trp His Met Pro Leu Glu Ala Asn Val Asn Gln Ser Asn
 595 600 605
 Cys Lys Leu Phe Gln Arg Ile Ser Leu Gly Leu Ser Lys Thr Tyr Ala
 610 615 620
 Thr Val Thr Leu Lys Pro Trp Gln Ile Leu His Leu Arg Asp Val Pro
 625 630 635 640
 Asn Arg Pro Val Met Asn Asp Gly Cys Ala Leu Met Ser Arg Pro Leu
 645 650 655
 Ala Asn Ala Ile Cys Asp Gln Leu Gly Ile Thr Gly Asn Thr Pro Ser
 660 665 670
 Ala Phe Gln Gly Arg Ile Ala Gly Ala Lys Gly Leu Trp Met Val Asp

675	680	685
Arg His Asn Ser Gly Ile Ser Gly Gly Gly Asp Asp Phe Trp Ile Gln		
690	695	700
Ile Ser Asp Ser Gln Leu Lys Ile Gln Pro His Pro Gln Ala Trp Arg		
705	710	715
Gly Pro Val Asp Asp Glu Lys Leu Thr Phe Glu Val Val Lys Trp Ser		
725	730	735
Lys Pro Leu His Pro Val Glu Leu Asn Thr Gln Leu Leu Ala Ile Leu		
740	745	750
Glu His Gly Gly Gln Val Arg Glu His Ile Ala Glu Leu Thr Arg Ala		
755	760	765
Gly Ile Arg Ala Ile Ser Gln Asp Phe Ala Ser Val Leu Glu Ser Asn		
770	775	780
Ser Ala Ala Leu Cys Arg Ser Leu Ile Gln Lys Ile Lys Pro Met Ala		
785	790	795
Asp Asp Gly Leu Ser Gly Ile Asn Gln Arg Met Lys Arg Leu Glu Gln		
805	810	815
Trp Thr Ala Asn Asp Ala Glu Ala Ile Ile Arg Leu Thr Glu Ala Gly		
820	825	830
Phe Ala Pro Arg Ser Phe Tyr Pro Leu Arg Arg Arg Leu Gly Arg Cys		
835	840	845
Leu Arg Asp Leu Leu Asp Arg Tyr Val Asp Glu Leu His Ile Glu Val		
850	855	860
Pro Leu Ser Thr Tyr Ala Phe Cys Ile Ala Asp Pro Tyr Gly Val Leu		
865	870	875
Lys Glu Asp Glu Val His Phe Gly Phe Ser Asn Asn Trp Arg Asp Ala		
885	890	895
Arg Gly Gln Phe Glu Asp Asn Leu Leu Asp Gly Val Asp Val Leu Val		
900	905	910
Gly Arg Leu Pro Ala His Val Pro Ser Asp Ile Gln Arg Arg Arg Ala		
915	920	925
Val Trp Lys Thr Glu Leu Arg His Phe Lys Asp Val Ile Val Phe Pro		
930	935	940
Thr Thr Gly Asp Ile Pro Leu Ala His Met Leu Ser Gly Gly Asp Tyr		
945	950	955
Asp Gly Asp Thr Pro Trp Ile Cys Trp Asp Gln Asn Ile Val Gln Arg		
965	970	975
Phe Gln Asn Ser Asp Leu Pro Thr Glu Glu Tyr Pro Pro Glu His Phe		
980	985	990
Gly Leu Thr Lys His Ser Val Ser Met Arg Asp Ile Gln Ser Thr Asp		
995	1000	1005
Glu Phe Leu Gln Ser Ala Phe Thr Phe Asn Leu Thr Thr Ser Asn Leu		
1010	1015	1020
Cys Arg Cys Thr Val Glu His Glu Lys Asn Ala Tyr Asp Glu Ser Ile		
1025	1030	1035
Asp Ser Ala Arg Ala Lys Glu Leu Ala Cys Leu Leu Ser His Leu Val		
1045	1050	1055
Asp Gly Arg Xaa		
1060		

<210> 33290

<211> 171

<212> PRT

<213> A.fumigatus

<400> 33290

13241

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Pro Arg Lys Leu Trp Gln Gly Gly Leu Ser Asn Phe Glu Ala Ser Val
1           5           10           15
Asn Glu Arg Ile Asp Ala Ala Asn Val Thr Arg Arg Cys Glu Gln Pro
20           25           30
Gln Gln Ser Gln Gln Gln His Leu Pro Pro Pro Asn Gly Pro Gln Leu
35           40           45
Asn Asn Pro Pro Ala Ser Asn Leu Leu Leu Pro Ala Met Thr Asn Gly
50           55           60
His Trp Lys Thr Glu Glu Leu Gly Tyr Phe Trp Pro Asp Met Pro Glu
65           70           75           80
Asp Ala Ser Ile Lys Gln Tyr Asn Thr Ser Leu Phe Tyr Lys Asp Val
85           90           95
Asn Val Phe Thr Asp Arg Val Lys Asp Val Ile Asp Tyr Lys Gly Glu
100          105          110
Pro Leu Val Lys Ala Asn Leu Gln Val Ser Leu Arg Gly Ala Ala Leu
115          120          125
Asp Trp Phe Thr Asn Glu Leu Thr Glu Leu Glu Lys Gln Ser Leu Cys
130          135          140
Ala Leu Pro Leu Asp Gln Gly Trp Leu Pro Glu Leu Val Lys Arg Phe
145          150          155          160
Arg Pro Arg Ala Ala Asp Ala Leu Val Lys Leu
165          170

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<210> 33291
 <211> 77
 <212> PRT
 <213> A.fumigatus

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<400> 33291
Ser Leu Ser Tyr Gly Tyr Asn Asp Val Arg Asn Asp Arg Thr Pro Arg
1           5           10           15
Ala Phe Ala Gln Asp Val Ile Cys His Ala Arg Ala Ala Gln Val Asn
20           25           30
Asp Ile Phe Asn Gln Ile Thr Met Val Trp Thr Arg Leu Glu Pro Tyr
35           40           45
Leu Arg Arg Asp Ile Pro Lys Pro Thr Pro Thr Thr Thr Leu Thr Gln
50           55           60
Phe Leu Glu Gln Leu Glu Ser Arg Ser Gly Ile Val Phe
65           70           75

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<210> 33292
 <211> 695
 <212> PRT
 <213> A.fumigatus

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<400> 33292
Leu Pro Gly Ser Leu Lys Leu Ser Glu Val Glu Met Glu Gly Ser Val
1           5           10           15
Val Glu Gly Ile Ser Thr Ser Leu Pro Thr Cys Pro Leu Phe Ser Gln
20           25           30
Pro His Asp Ser Gln Ser Leu Phe Ala Pro Glu Gly Leu Pro Thr Pro
35           40           45
Pro Ser Tyr His Asp Met His Val Asn Asp Leu Gly Leu Thr Pro Pro
50           55           60
Pro Gly Ser Gln Leu Leu Gln Pro Thr Asn Ala Thr Gly Pro Lys Pro
65           70           75           80

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Leu	His	Asp	Glu	His	Gly	Ser	Ser	Ser	Gly	Asp	Val	Arg	Ile	Ser	Met
				85					90					95	
Ala	Gly	Gln	Pro	Thr	Gly	Ser	Asn	His	Asp	His	Gln	Thr	Arg	Gly	Ser
			100					105					110		
Arg	Lys	Gly	Thr	Ser	Asp	Asp	Pro	Ser	Pro	Leu	Lys	Arg	Arg	Arg	Ser
		115					120					125			
Ser	Asn	Pro	Glu	Val	Gly	Pro	Phe	Phe	Pro	Asp	Gly	Pro	Ala	Ala	Ser
	130					135					140				
Pro	Ile	Gly	Ser	Ile	Glu	Val	Ala	Ala	Asn	Ala	Ala	Ala	Gln	Thr	Arg
145					150					155					160
Leu	Pro	Gln	Pro	Leu	Ser	Ser	Asn	Asn	Thr	Pro	Asn	Ala	Asp	Asn	Leu
				165					170					175	
Leu	Tyr	Asp	Pro	Leu	Phe	Gly	Pro	Asp	Phe	Met	Leu	Pro	Asn	Phe	Asp
			180					185					190		
Ala	Asn	Pro	Ser	Ser	Leu	Lys	Arg	Thr	Ala	Asp	Glu	Ala	Leu	Ala	Asp
		195					200					205			
Asp	Phe	Gln	Val	Trp	His	Arg	Pro	Glu	Lys	Arg	Leu	Ile	Pro	Asp	Ser
	210					215					220				
Leu	Gln	Cys	Ser	Asn	Ala	Pro	Ser	Leu	Asp	Ala	Thr	Pro	Ser	Leu	Ser
225					230					235					240
Ser	Pro	Asp	Thr	Ile	Gln	Leu	Asp	His	Phe	Glu	Thr	Val	Pro	Asn	Thr
				245					250					255	
Pro	Gly	Gly	Ile	Ala	Asp	Ser	Gln	Leu	Pro	Ala	Pro	Pro	Phe	Asp	Pro
			260					265					270		
Phe	Gly	Ser	Leu	Phe	Glu	Asp	Pro	Ala	Phe	His	Ile	Pro	Ser	Asp	Leu
		275				280						285			
Ser	Lys	Ile	Glu	Tyr	Ser	Ser	Glu	Asn	Arg	Gln	Ala	Pro	His	Ser	Ala
	290					295				300					
Asp	Ala	Glu	Pro	Ser	Tyr	Asp	Ala	Ser	Cys	Pro	Pro	Ser	Phe	Asn	Val
305					310					315					320
Gln	Val	Gln	Ala	Ala	Asp	Pro	Val	Thr	Phe	Asp	His	Glu	Thr	Glu	Ser
				325					330					335	
Val	Ser	Leu	Ser	Thr	Ser	Glu	Leu	Thr	Lys	Arg	Gln	Phe	Ser	Leu	Asp
			340					345					350		
Thr	Gln	Asp	Val	Leu	Ala	Asn	Ala	Asp	Arg	Glu	Thr	Leu	Gln	Arg	Val
		355				360						365			
Asp	His	Val	Pro	Glu	Tyr	Thr	Ser	Pro	Tyr	Pro	Met	Tyr	His	Gly	Pro
	370					375					380				
Leu	Gly	Tyr	Leu	Pro	Ser	Ala	Pro	Gly	Ile	His	Val	Lys	Cys	Ile	Gln
385					390					395					400
Ile	Ala	Asn	Asp	Gln	Val	Asn	Ala	Arg	Phe	Ser	His	Leu	Lys	Tyr	Lys
				405					410					415	
Val	Gln	Gln	Leu	Lys	Tyr	Glu	Arg	Asp	Lys	Tyr	Arg	Asp	Ala	Trp	Ser
			420					425					430		
Lys	Trp														

13243

Gly Gln Gln Leu Ala Ser Thr Pro Tyr Ile Pro Val Pro His Gln Asn
 530 535 540
 Ser Pro Pro Ser Asn Phe Pro Pro Ser Gly Ile Thr Thr Gly Ser Val
 545 550 555 560
 Gln His Pro Ser Pro Ala Glu Pro Leu Pro Glu Thr Met Thr Ile Asp
 565 570 575
 Leu Thr Asp Glu Ala Pro Asn Val Ser Pro Asn Pro Ser Ser Ile Ala
 580 585 590
 Pro Ser Lys Pro Met Gln Glu Ser Gly Glu Leu Leu Gln Ser Leu Gln
 595 600 605
 Lys Lys Lys Tyr Asn Trp Leu Glu Thr Ala Lys Leu Gly Ser Ala Gln
 610 615 620
 Pro Val Val Ala Arg Ala Gly Pro Arg Pro Leu Pro Arg Pro Glu Ser
 625 630 635 640
 Ala Pro Arg Ala Ser Gln Leu Pro Pro Pro Pro Arg Ser Ser Ser Asn
 645 650 655
 Gln Gln Pro Ser Ile Pro His Pro Val Thr Gln Ala Ala Ser Ser Val
 660 665 670
 Asn His Asp Asp Glu Ile Asp Val Glu Asp Asp Leu Leu His Glu Met
 675 680 685
 Glu Glu Glu Leu Ala Arg Gly
 690 695

<210> 33293

<211> 65

<212> PRT

<213> A.fumigatus

<400> 33293

Trp Asp Arg Lys Arg Asp Gly Arg Thr Arg His Arg Asp Gly Gln Gly
 1 5 10 15
 Leu Gly Thr Ala Thr Gly Cys Asn Phe Ile Ser Val Tyr Arg Trp Trp
 20 25 30
 Thr Ile Val Arg Cys Trp Ile Gln Phe His Tyr Leu Ser Thr Ser Glu
 35 40 45
 Gly Arg Ile Thr Arg Arg Asn Lys Thr Ala Phe Thr Leu Lys Val Ile
 50 55 60
 Tyr
 65

<210> 33294

<211> 486

<212> PRT

<213> A.fumigatus

<400> 33294

Gln Thr Pro Arg Met Asn Met Ala Lys Lys Pro Ala Thr Arg Leu Met
 1 5 10 15
 Leu Thr Ala Ala Leu Leu Ser Ala Val Ile Leu Val Ala Lys Leu Gln
 20 25 30
 Ser Asn His Phe Asp Leu Gln Thr Ser Phe Leu Ser Ser Tyr His Ser
 35 40 45
 Thr Ala Gly His Tyr Gly Gln Ser His Ile Lys Ala Gly Glu Ser Lys
 50 55 60
 Thr Ala Cys Ser Gly Gly Pro Gly Ser Glu Ala Trp Ser His Cys Gln
 65 70 75 80

Asp Gly Gln Ser Ala Asp Glu Asp Glu Arg Arg Ala Glu Gln Leu Ala
 85 90 95
 Lys Glu Met Ser Ser Thr His His Ile Leu Tyr Ser Val Ser Ser Ala
 100 105 110
 Asp Arg Lys Tyr Phe Lys Ile Asp Phe Gly Ser Arg Ser Val Met Asn
 115 120 125
 Pro Ser Ile Ile Pro His Pro Glu Leu Leu Asp Thr Trp Ile Ile Thr
 130 135 140
 Ala Gln Leu His Lys Pro Pro Ser Ala Arg Met Ala Ser Val Trp Phe
 145 150 155 160
 Ala Glu Leu Val Cys Asn Ala Ala Phe Ser Ala Asp Lys Arg Val Leu
 165 170 175
 Arg Cys Leu Glu Pro Pro Leu Gln Leu Pro Ile Pro Ala Thr Val Gly
 180 185 190
 Asp Ser Ser Lys Cys Val Gly Asp Leu Ser Tyr Phe Ser Leu Ser Val
 195 200 205
 Gly Pro His Asp Ala Arg Val Phe Tyr Gly Pro Glu Ile Pro Tyr Thr
 210 215 220
 Ile Tyr Gly Ser Asn Ser Phe Phe Thr Cys Phe Gly Gln Trp Ile Ser
 225 230 235 240
 Asp Phe Arg Ile Leu Val Asp Trp Gly Ile Asp Thr Ile His Glu His
 245 250 255
 Glu Phe Arg Gln Pro Arg Glu Leu Gln Arg Pro Val Pro Trp Asn Ala
 260 265 270
 Val Glu Lys Asn Trp Phe Leu Phe Trp Asp Asp Asp Gly Gln Met Phe
 275 280 285
 Leu His His Asp Ile Ala Pro Val Arg Val Phe Ala Lys Val Glu Leu
 290 295 300
 Asp Gly Ser Val Gly Pro Asn Leu Ala Leu Ala Thr Ala Thr Ala Asp
 305 310 315 320
 Gln Ala Cys Leu Thr Arg Phe Leu Pro Leu Ser Thr Gly Pro Ser Glu
 325 330 335
 Ser Ile His Gln Ala Thr Asn Ser Leu Ala Val Thr Leu Cys Ala Arg
 340 345 350
 Ser Asp Pro Ser Cys His Pro Asp Thr Ala His Thr Phe Val Leu Phe
 355 360 365
 Val Val Gln Arg Lys Thr Leu His Gly Leu His Pro Val Tyr Glu Pro
 370 375 380
 Tyr Val Val Leu Thr Arg Arg Ser Thr Pro Tyr Glu Ile Tyr Ala Val
 385 390 395 400
 Ser Ser Lys Pro Ile Trp Ile Phe Gly Arg Asn Pro Ala Ala Lys Thr
 405 410 415
 Thr Glu Gly Ala Ser Ser Ala Leu Val Ala Ala Asp Ser Glu Met Leu
 420 425 430
 Tyr Met Thr Ser Ile Ser Trp Lys Ser His Gly Gln Lys Tyr His Gly
 435 440 445
 His Ile Asp Asp Thr Leu Phe Leu Ala Phe Gly Arg Glu Asp Ser Ala
 450 455 460
 Ala Gly Gly Ile Asp Val Ala Ala Arg Asp Leu Leu Ser Glu Leu Gly
 465 470 475 480
 Met Cys Ala Gly Pro Asp
 485

<210> 33295

<211> 369

<212> PRT

<213> A.fumigatus

<400> 33295

Trp Phe Pro Gly Asp Leu Leu Leu Arg His Arg Arg Arg Cys Leu Arg
 1 5 10 15
 Ser Asp Glu Pro Ala Met Arg Arg Lys Ala Cys Asn Ala Cys Val Gln
 20 25 30
 Ala Lys Thr Lys Cys Cys Tyr Thr Gln Pro Thr Cys Ser Arg Cys Ala
 35 40 45
 Lys Arg Gly Leu Val Cys Glu Tyr Met Ser Met Ala Lys Thr Ala Ala
 50 55 60
 Thr Ile Ala Ser Ala Ser Ser Ala Ser Ser Ala Ser Ser Ser
 65 70 75 80
 Ser Leu Ser Ala Lys Asp Pro Ser Gln Pro Asp Glu Thr Ser Val Ser
 85 90 95
 Ala Thr Asp Leu Pro Leu Leu Leu Trp Ser Arg Arg Ser Pro Leu Asp
 100 105 110
 Asp Pro Gly Ala Asp His Ala Asp Ser Trp Ser Ser Gln Asn Phe Leu
 115 120 125
 Trp Ala Leu Asp Thr Ile Asn Leu Pro Ser Leu Pro Ser Ala Ser Thr
 130 135 140
 Ser Met Val Asn Glu Val Thr Leu Gly Pro Ala Pro Ala Ile Pro Thr
 145 150 155 160
 Arg His Pro Ser Leu Thr Phe Pro Leu Thr Ser Pro Ser Ser Gln Pro
 165 170 175
 Ser Ser Tyr Asn Pro Leu Val Glu Glu Thr Ile Ala Pro Pro Ala Ser
 180 185 190
 Gly Ile Pro Asp Leu Ser Thr Thr Arg Thr Gly Leu Gly Ser Gln Glu
 195 200 205
 Asp Ala Thr Thr Asp Ser Pro Ala Pro Leu Ser Lys Pro Asp Gly
 210 215 220
 Gln Gly Gly Arg Pro Ala Asn Tyr Ala Ser Leu Leu Leu Gln Tyr Pro
 225 230 235 240
 Lys Arg Leu Leu Gln Asp Asp Phe Tyr Cys Pro Phe Leu His Arg Thr
 245 250 255
 Leu Phe Asn Asp Asp Met Pro Asp Met Thr Ile Leu Pro His Thr Ser
 260 265 270
 Met Ala Ile Cys Cys Gly Ser Ala Leu Gly Asn Arg Asp Gly Val Gly
 275 280 285
 Tyr Ile Lys Arg Ala Met Asp Ala Gln Arg Gln Ser Leu Ile Glu Ser
 290 295 300
 Tyr Val Ser Thr Val Ala Met Arg Glu Arg Leu Val Thr Ser Ser Gly
 305 310 315 320
 Leu Thr Thr Arg Leu Ser Ser Gln Pro Thr Thr Val Trp Ser Ser Gly
 325 330 335
 Thr Arg Cys Met Arg Cys Ser Ser Met Arg Ser Trp Arg Trp Ala Trp
 340 345 350
 Arg Pro Ser Thr Asn Arg Arg Ala Gly Asn Glu Ser Asp Ala Pro Glu
 355 360 365
 Gly

<210> 33296

<211> 70

<212> PRT

<213> A.fumigatus

<400> 33296

```

Ile Gly Gln Asp Ile Ala His Lys Pro Gly Val Ala His Ala Leu Leu
1           5           10           15
Val Ile Ser Tyr Arg Ala Ile Pro Phe Asp Ala Ala Thr Ser Thr Met
          20           25           30
Pro Gly Ser Glu Pro Pro Asn Gln Ala His Val Cys Asp Ser Cys Phe
          35           40           45
Lys Ser Tyr Gln Arg Arg Val Ser Cys Leu Val Ser Ile Val Val His
          50           55           60
Ala Ser Gly Ala Asp Ile
65           70

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<210> 33297

<211> 250

<212> PRT

<213> A.fumigatus

<400> 33297

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Arg Ala Asp Asn Glu Thr Val Gln Pro Thr Tyr His Cys Leu Glu Gln
1           5           10           15
Trp Asp Ala Leu His Ala Met Leu Leu Tyr Glu Ile Leu Glu Met Gly
          20           25           30
Met Ala Pro Ile His Glu Ser Glu Ser Trp Lys Arg Lys Arg Arg Thr
          35           40           45
Arg Gly Leu Lys Ser Pro Phe Leu Ser Lys Met Thr Gln Cys Phe Ser
          50           55           60
Arg Ser Tyr Leu Glu Cys His Asp Val Ala Leu Leu Pro Asp Thr Asp
65           70           75           80
Pro Asn Arg Ser Trp Val Gln Trp Ala Val Thr Glu Thr Ala Arg Arg
          85           90           95
Thr Met Phe Leu Ala Asn Ile Val Asn Phe Phe Ser Asn Arg Asp Leu
          100          105          110
Glu Ser Gly Arg Gln Leu Pro Tyr Tyr Glu Pro Leu Asn Asp Glu Leu
          115          120          125
Ile Met Lys Met Pro Leu Pro Cys Asn Gln Ala Leu Trp Ser Ala Arg
          130          135          140
Thr Glu Asp Glu Trp Arg Arg Ala Thr Gln Met Ala Asn Lys Gln Ala
145          150          155          160
Ser Pro Ala Gly Ser Pro Gly Thr Ser Asp Ala Phe Ala Pro Leu Gly
          165          170          175
Ala Ala Ala Ala Ala Ser Ala Ala Gly Pro Ala Ala Gly Pro Pro Asn
          180          185          190
Ala Val Gly Glu Pro Leu Pro Asn His His His Leu His Leu Leu Ser
          195          200          205
Leu Gln Ser Leu Phe Ser Lys Phe Ala Lys Asp Tyr Leu Arg Ala Asn
          210          215          220
Phe Thr Thr Asn Ala Gly Phe Gly Asp Ser Asn Glu Leu Arg Ser Phe
225          230          235          240
Ile Ile Leu Cys Ala Leu Glu Gln Phe Ser
          245          250

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<210> 33298

<211> 65

<212> PRT

<213> A.fumigatus

<400> 33298

Ser Leu Gly Met Ala Cys Ser Ala Ala Val Gly Val Leu Phe Phe
 1 5 10 15
 Leu Glu Asp Asp Gln Cys Asn Leu Ala Tyr Leu Ser Ile Tyr Cys Gly
 20 25 30
 Cys Ser Ser Ser Glu Gln Ile Ser Val Pro Ser His Pro Ile Thr Ala
 35 40 45
 Asp Tyr Ser Lys Leu Val Asn Asp Tyr Gly Pro Gly Glu Met Ile Ser
 50 55 60
 Gln
 65

<210> 33299

<211> 295

<212> PRT

<213> A.fumigatus

<400> 33299

Ser Tyr Pro Gly Pro Arg Gly Ser Ser Gly Ser Ser Arg Ser Leu Arg
 1 5 10 15
 Asp Pro Arg Arg Asp Arg Pro Ala Gly Ser Asp Gly Ser Thr Ala Thr
 20 25 30
 Thr Gly Gly Arg Ser Arg Ser Arg Trp Ser Arg Pro Val Gly Lys Gly
 35 40 45
 Leu Trp Pro Arg Ala Thr Arg Lys Arg Pro Arg Gln Lys Arg Arg Lys
 50 55 60
 Arg Pro Thr Gln Trp Trp Arg Leu Ser Trp Pro Trp Thr Cys Ile Arg
 65 70 75 80
 Arg Arg Gly Pro Val Trp His Ser Ala Ser Arg Ser Ala Val Cys Ser
 85 90 95
 Ser Ile Trp Ser Trp Pro Ala Arg Met His Tyr Thr Pro Cys Gly Ala
 100 105 110
 Leu Arg Val Arg Pro Ile Ala Asp Thr Val Val Asp Gly Ala Arg Gly
 115 120 125
 Gly His Leu Glu Thr Ile Ser Leu Asp Val Ser Thr Arg Gly Met His
 130 135 140
 Asp Asp Arg Asp Glu Thr Arg His Thr Ser Leu Val Ala Leu Glu Thr
 145 150 155 160
 Gly Val Ala His Val Arg Leu Val Gly Arg Leu Gly Ser Gly His Gly
 165 170 175
 Arg Ser Cys Gly Ile Glu Gly Asp Cys Pro Val Gly Asn Asp Gln Gln
 180 185 190
 Ser Val Gly Asn Ala Arg Phe Met Cys Asn Ile Leu Ser Tyr Ser Leu
 195 200 205
 Ala Asp Ser Trp Gln Gly Ala Ser His Arg Asn Arg His Asp Cys Leu
 210 215 220
 Leu Asp Pro Ser Ile Ser Ala Ala Trp Ala Gly Arg Gln Ala Gly Val
 225 230 235 240
 Glu Glu Gly Leu Asp Gly Thr Gln Gly Phe Arg Met Asn Thr Gly Gly
 245 250 255
 Ser Arg Arg Ile Thr Arg Ala Ile Pro Cys Val Gly Lys Ala Arg Gly
 260 265 270
 Leu Ile Ala Trp Tyr Gly Val Leu Cys Cys Cys Gly Trp Arg Leu Ile
 275 280 285
 Leu Pro Gly Arg Arg Pro Met

290

295

<210> 33300
 <211> 74
 <212> PRT
 <213> A.fumigatus

<400> 33300
 Lys Leu Gln Arg Val Ser Arg Arg Gly His Phe Ser Pro Val Ser Ile
 1 5 10 15
 Leu Phe Leu Phe Leu Gly Pro Trp Glu Arg Ala Asn Leu His Phe Arg
 20 25 30
 Ala Cys Arg Val Gly Val Phe Ala Arg Leu Thr Asn Ser Tyr Ala Ile
 35 40 45
 Val Ala Ile Gly Ala Ser Glu Asn Phe Tyr Arg Cys Thr Thr His Ala
 50 55 60
 Pro Val Ile Arg Leu Val Ser Gly Ile Phe
 65 70

<210> 33301
 <211> 88
 <212> PRT
 <213> A.fumigatus

<400> 33301
 Val Ala Ala Arg Trp Ala Thr Thr Gly Pro Phe Cys Gly Pro Lys Arg
 1 5 10 15
 Pro Ser Pro Thr Ala Pro Ser Ser Trp Phe Gln Leu Ser Thr Ser Ser
 20 25 30
 Pro Ala Trp Leu Pro Ile Arg Thr Ser Ser Ser Ala Pro Val Leu His
 35 40 45
 Thr Pro Ala Ser Ala Gly Pro Tyr Gly Pro Ala Ser Thr Gly Ala Pro
 50 55 60
 Thr Thr Leu Leu Asn Gly Asn Ala Gly Glu Lys Glu Gly Arg Ser Ser
 65 70 75 80
 Ser Glu Phe Arg Phe Pro Gln Asp
 85

<210> 33302
 <211> 106
 <212> PRT
 <213> A.fumigatus

<400> 33302
 Gln Ser Asp Asp Ser Asn Ser Asn Arg Lys Gly Leu Leu Val Pro Thr
 1 5 10 15
 Thr Thr Thr Asp Gln Glu Leu Gln His Leu Arg Asn Thr Leu Pro Asp
 20 25 30
 Asp Val Lys Ile Gln Arg Ile Glu Glu Arg Leu Ser Ala Leu Gly Asn
 35 40 45
 Val Ile Cys Cys Asn Asp His Val Ala Leu Val His Pro Asp Leu Glu
 50 55 60
 Arg Glu Thr Glu Glu Met Tyr Val Phe Glu Ala Leu Phe Arg Pro Tyr
 65 70 75 80
 Ser Arg Gly Asn Arg Lys Arg Glu Asn Ser Gly Asn Lys Leu Ala Arg
 85 90 95

Asp Ala Asn Thr Ile Gln Lys Gln Asn Ser
100 105

<210> 33303
<211> 252
<212> PRT
<213> A.fumigatus

<400> 33303
Leu Val Val Val Gln Thr Asp Glu Ser Glu Thr Glu Thr Asp Arg Gly
1 5 10 15
Arg Ile Arg Pro Leu Ala Arg Asp Met Lys Arg Gly Tyr Tyr Ser Ser
20 25 30
Phe Val Arg Asn Pro Ala Gly Ala Ala Leu Tyr Glu Arg Ala Leu Asn
35 40 45
Gly Trp Glu Asp Phe Val Gln Arg Ala Lys Leu Gly Gly Asp Ile Glu
50 55 60
Pro Gln Met Asn Asp Met Glu Glu Ala Val Pro Phe Lys Gly Leu Ser
65 70 75 80
Ala His Asp Val Leu Asn Met Ile Ile Glu Ala Thr Gly Val Val Gln
85 90 95
Thr Arg Gly Asp Thr Thr Ala Glu Ser Asn Lys Val Phe Ala Pro Val
100 105 110
Pro Glu Ser Arg Ala Glu Ala Leu Tyr Ala Leu Ala Asp Ala Ala Thr
115 120 125
Ala Ser Pro Leu Pro Leu Pro Arg Ala Ala Ile Thr Pro Arg Thr Pro
130 135 140
Ala His Arg Ala Ile Leu Pro Gln Pro Pro Gln His Pro Gln Leu Pro
145 150 155 160
Ala Ile Gln Ala Pro Ile Asp Pro Arg Ala Phe Val Leu Pro Pro Pro
165 170 175
Asn Pro Gln Arg Gln Gln Pro Arg Arg Leu Leu Pro Ala Gly Gln Leu
180 185 190
Pro Asp Pro Phe Ala Ala Arg Asn Gly Pro Pro Gln Leu Pro Pro Pro
195 200 205
Pro Gly Ser Asn Phe Gln Arg Pro Pro Leu Pro Gly Phe Leu Ser Gly
210 215 220
Pro Pro Pro Pro Pro Leu Tyr Tyr Thr His Pro Pro Pro Pro Gly Pro
225 230 235 240
Thr Gly Pro Pro Pro Gln Gly Pro Arg Pro Pro Phe
245 250

<210> 33304
<211> 90
<212> PRT
<213> A.fumigatus

<400> 33304
Leu Ala Phe Ser Arg Leu Gln Ser Arg Arg Phe Cys Pro Pro Asp Lys
1 5 10 15
Leu Ile Cys Asp Cys Arg His Arg Arg Phe Arg Glu Leu Leu Gln Val
20 25 30
His Tyr Ser Cys Ser Arg Tyr Ser Pro Cys Lys Arg Asp Leu Leu Thr
35 40 45
Asp Lys Phe Asn Ile Thr Ser Val Phe Glu Ala Glu Leu Gln Asp Val
50 55 60

13250

Ile Pro Ile Cys His Ala Thr Ile Ala Gly Thr Arg Ile Val Gly Arg
 65 70 75 80
 Leu Thr Ala Gly Tyr Val Phe Leu Phe Ile
 85 90

<210> 33305
 <211> 157
 <212> PRT
 <213> A.fumigatus

<400> 33305
 Cys Ile Arg Ile Leu Ser Gly Lys Gln Arg Lys Cys Thr Phe Leu Arg
 1 5 10 15
 Pro Ser Ser Val Leu Thr Arg Gly Gly Ile Glu Arg Glu Lys Thr Ala
 20 25 30
 Gly Ile Asn Trp His Ala Thr Leu Ser Lys Asn Arg Ile Ala
 35 40 45
 Asp Val Leu Gly Val Glu Val Phe Arg Gln Thr Ile Ala Asp Asn Val
 50 55 60
 Leu Thr Gly Ser Tyr Met Ala Leu Ser Asn Gln Gly Gly Ile Val His
 65 70 75 80
 Pro Lys Thr Ser Ile Arg Asp Gln Asp Glu Leu Ser Ser Leu Leu Gln
 85 90 95
 Val Pro Leu Val Ala Gly Ser Val Asn Arg Gly Ser Pro Val Val Gly
 100 105 110
 Ala Gly Met Val Val Asn Asp Trp Leu Ala Val Thr Gly Leu Asp Thr
 115 120 125
 Thr Ala Thr Glu Leu Ser Val Val Glu Ser Val Phe Arg Leu Gly Glu
 130 135 140
 Ser Ser Pro Arg Gly Trp Lys Asp Pro Arg Trp Arg Tyr
 145 150 155

<210> 33306
 <211> 66
 <212> PRT
 <213> A.fumigatus

<400> 33306
 Tyr Glu Asn Ser Phe Lys Asp Leu Ser Ile Lys Tyr Ser Thr Ser Phe
 1 5 10 15
 Ile Pro Glu Asn Pro His Met Ser Thr Glu Asn Lys Ile Ser Gln Arg
 20 25 30
 Leu Arg Leu Ile Val Ala His Thr Leu Ser His Ser Asn Gly Pro Ala
 35 40 45
 Met Asp Asp Thr Leu Trp Ser Glu Ile Lys Lys Arg Ile Lys His Arg
 50 55 60
 Ile Cys
 65

<210> 33307
 <211> 69
 <212> PRT
 <213> A.fumigatus

<400> 33307
 Ser Ser Val Val Leu Gly Pro Ser Ser Leu Val Thr Gly Pro Asp Ile

13251

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1           5           10           15
Asp Leu Ser Thr Lys Ala Tyr Thr Asp Cys Ser Gly Ala Phe Ala Ile
      20           25           30
Cys His Tyr Val Val Thr Ala Asp Phe Val Gly Thr Ile Asn Gly Leu
      35           40           45
His Gln Arg Glu Ile Arg Ile Ser Cys Arg Met Asn Leu Glu Arg Ser
      50           55           60
Cys Ser Arg Ser Arg
65

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<210> 33308

<211> 79

<212> PRT

<213> A.fumigatus

<400> 33308

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Arg Cys Thr Pro Met Ile Met Thr Asn Ser Met Thr Lys Ser Val Arg
1           5           10           15
Leu Met Pro Lys Ser Arg Ser Asp Leu Leu Pro Val Pro Leu Val Phe
      20           25           30
Pro Ala Arg Leu Thr Leu Asn Pro Pro Phe Gln Asp Ile Ile Pro Phe
      35           40           45
Ala Val Val Gly Ser Glu Lys Thr Ile Val Val Asn Gly Gln Gln Val
      50           55           60
Arg Gly Arg Gln Asn Arg Trp Gly Val Ile Asn Val Glu Asp Glu
65           70           75

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<210> 33309

<211> 95

<212> PRT

<213> A.fumigatus

<400> 33309

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Phe Asp Trp Glu Ala Ile Thr Asn Glu Ser Ser Val Leu Lys Met Ala
1           5           10           15
Thr Thr Ala Asn Ser Asn Ser Thr Asn Pro Ala Thr Val Phe Pro Arg
      20           25           30
Ser His Val Gly Phe Asp Ser Ile Thr Ser Gln Ile Glu Arg Lys Leu
      35           40           45
Leu Lys Arg Gly Phe Gln Phe Asn Val Met Cys Val Gly Met Trp Ala
      50           55           60
Ala Thr Val Gln Leu Phe Leu Glu Arg Thr His Ile Asp Cys Val Leu
65           70           75           80
Tyr Ser Thr Asn Arg Pro Asp Arg Ser Arg Lys Val Asp Ser Asp
      85           90           95

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<210> 33310

<211> 90

<212> PRT

<213> A.fumigatus

<400> 33310

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Cys Val Leu Val Cys Gly Leu Gln Leu Ser Ser Cys Ser Leu Asn Glu
1           5           10           15
Leu Thr Leu Thr Val Ser Phe Thr Leu Pro Ile Gly Gln Thr Gly Leu
      20           25           30

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13252

Gly Lys Ser Thr Leu Ile Asn Thr Ile Phe Ala Ser His Leu Ile Asp
 35 40 45
 Ser Lys Gly Arg Leu Thr Pro Asn Glu Pro Val Arg Ser Thr Thr Glu
 50 55 60
 Ile Gln Thr Val Ser His Ser Ala Leu Val Pro Glu Asp Lys Ile Phe
 65 70 75 80
 Asp Arg Asn Ala Leu Leu Thr Ile Val Tyr
 85 90

<210> 33311

<211> 107

<212> PRT

<213> A.fumigatus

<400> 33311

Phe Cys Lys Cys Ser Leu Lys Pro Ile Asp Ile Val Val Leu Lys Lys
 1 5 10 15
 Leu Ser Asp Val Val Asn Val Val Pro Val Ile Ala Lys Ala Asp Ser
 20 25 30
 Leu Thr Leu Glu Glu Arg Gln Ala Phe Lys Glu Arg Ile Lys Glu Glu
 35 40 45
 Phe Ala Phe His Asn Leu Lys Met Tyr Pro Tyr Asp Asn Asp Glu Leu
 50 55 60
 Asp Asp Glu Glu Arg Ala Val Asn Ala Gln Ile Lys Val Arg Pro Thr
 65 70 75 80
 Thr Arg Ala Thr Cys Ile Ser Cys Pro Pro Asp Ser Lys Pro Ser Leu
 85 90 95
 Ser Gly His Tyr Ser Ile Arg Arg Arg Gln
 100 105

<210> 33312

<211> 95

<212> PRT

<213> A.fumigatus

<400> 33312

Leu Ile His Lys Ile Leu Ser Ala Ser Gly Ala Thr Ala Leu Lys Ile
 1 5 10 15
 His Ser Thr Arg Asp Pro Asp Phe Pro Leu Val Gln Ser Ile Asp Gly
 20 25 30
 Ala His Lys Val Gly Cys His His Ile Val Thr Asn Gly Lys Gly Ser
 35 40 45
 Arg Ala Val Ser Val Gly Phe Gly Gly Glu Ile Asn Val Trp Ala Cys
 50 55 60
 His Glu Gly Thr Trp Ser Lys Tyr Asp Ala Ala Ser Gly Ile Thr Ile
 65 70 75 80
 Gln Val Leu Val Asn Leu Pro Asp Ser Phe His Tyr Phe Lys Thr
 85 90 95

<210> 33313

<211> 79

<212> PRT

<213> A.fumigatus

<400> 33313

Pro Val Gly Leu Val Lys Pro Val Arg Thr Val Ala Phe Ser Pro Gly

13253

1 5 10 15
 Gly Lys Leu Leu Ala Ala Ala Gly Asp Ser Arg Val Ile Val Leu Tyr
 20 25 30
 Asp Thr Ser Ser Gly Glu Gln Val Ala Asn Leu Ser Gly His Ser Ala
 35 40 45
 Trp Ile Leu Ser Leu Ser Trp Ser His Thr Gly Glu Tyr Leu Leu Ser
 50 55 60
 Arg Ser Val Asp Met Thr Asn Leu Lys Thr Phe Arg Ile Tyr Ser
 65 70 75

<210> 33314

<211> 193

<212> PRT

<213> A.fumigatus

<400> 33314

Arg Ile Gln Leu Tyr Val Gly Lys Leu Ala Asn Ala Tyr Phe Tyr Asp
 1 5 10 15
 Thr Val Ile Ala Gly Glu Thr Asp Phe Leu Tyr Gly Phe Gly Thr Ala
 20 25 30
 Phe Ile Glu Lys Thr Thr Leu Ser Leu Arg Gly Cys Gly Gly Gly Ile
 35 40 45
 Thr Ala Trp Lys Gly Thr Asn Thr Thr Phe Glu Asn Lys Tyr Gly Val
 50 55 60
 Tyr Ile Ala Asp Ser Gln Val Leu Ala Ala Asn Ala Ser Ile Gly Asn
 65 70 75 80
 Asp Ile Lys Glu Arg Cys Ser Leu Gly Arg Pro Trp Asn Asn Leu His
 85 90 95
 Arg Ser Ile Phe Ile Asp Thr Tyr Phe Asp Ser Ser Ile Leu Pro Ala
 100 105 110
 Gly Tyr Thr Val Trp Lys Gly Ala Pro Asn Asn Asn Phe Asn Asn Glu
 115 120 125
 Thr Leu Met Ala Val Tyr Gly Val Tyr Gly Pro Gly Tyr Asn Pro Ala
 130 135 140
 Ala Glu Lys Asn Gly Asn Val Thr Arg Ile Leu His Arg Arg Glu Val
 145 150 155 160
 Met Pro Tyr Ala Arg Pro Val Asp Val Phe Met Thr Pro Asp Gly His
 165 170 175
 Gln Pro Asn Ile Ala Trp Leu Asp Pro Ile Ala Ala Ser Ser Gly Arg
 180 185 190
 Pro

<210> 33315

<211> 266

<212> PRT

<213> A.fumigatus

<400> 33315

Thr Met Ala Asn Asn Pro Asp Thr Leu Glu Gly Glu Lys Pro Arg Pro
 1 5 10 15
 Leu Ala Glu Gly Lys Lys Ala Ala Arg Lys Glu Gln Ser Met Thr Leu
 20 25 30
 Trp Gln Ala Val Arg Leu Tyr Pro Lys Ala Val Gly Trp Ser Val Leu
 35 40 45
 Leu Ser Ser Thr Leu Ile Met Glu Gly Tyr Asp Leu Ala Leu Leu Gly

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<210> 33316
<211> 133
<212> PRT
<213> A.fumigatus
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[illegible]

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<210> 33317
<211> 227
<212> PRT
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<213> A.fumigatus

<400> 33317

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Arg Asp Thr Glu Leu Ala Met Lys Phe Phe Ala Leu Ala Ala Leu Phe
1      5      10      15
Ala Ser Thr Val Asn Ser Ile Ala Val Asp Gly Leu Ile Pro Gly Ala
20      25      30
Arg Val Ile Pro Ala Asn Asp Val Val Ala Leu Lys Lys Val Gly Ala
35      40      45
Tyr His Gln Lys His His His Arg Arg Thr Val Ile Ile Arg Ser Ser
50      55      60
Ser Ser Asp Glu Asp Asp Val Ser Ala Asp Phe Leu Trp Gly Ile Lys
65      70      75      80
Arg Ala Asn Arg Gly Gly Arg Leu Leu Leu Gln Lys Gly Lys Lys Tyr
85      90      95
Val Ile Gly Lys Lys Leu Asp Leu Thr Phe Leu Lys Asp Ile Glu Val
100     105     110
Gln Leu Asp Gly Glu Leu Lys Val Leu Trp Pro Lys Ile Leu Asp Pro
115     120     125
Val Leu Ala Gly Val Asn Thr Ile Glu Lys Phe Thr Asn Asp Val Pro
130     135     140
Tyr Trp Gln Ala Asn Asn Phe Tyr Tyr Asp Phe Gln Lys Ser Ile Ser
145     150     155     160
Phe Trp Arg Trp Gly Gly Glu Asp Ile Lys Ile Phe Gly Ser Gly Val
165     170     175
Leu Asn Gly Asn Gly Gln Arg Trp Tyr Asn Glu Phe Ala Gly Gln Glu
180     185     190
Ile Leu Val Ser Leu Pro Glu Ser Leu Ser Arg Ser Leu Tyr Arg Leu
195     200     205
Val Leu Arg Ser Leu Gly Ser Gln Gln Gln Val Leu Ser Ala His Ser
210     215     220
Leu Arg Asp
225

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<210> 33318

<211> 148

<212> PRT

<213> A.fumigatus

<400> 33318

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Ala Asn Gly Gly Pro Gln Ala Leu Pro Lys Asn Thr Asp Gly Phe Asp
1      5      10      15
Thr Leu Asn Val Asp Gly Leu Thr Val Thr Asn Thr Arg Val Asp Ile
20      25      30
Gly Asp Asp Cys Leu Ser Pro Lys Pro Asn Thr Thr Asn Val Phe Val
35      40      45
Lys Asn Leu Trp Cys Asn Gly Thr His Gly Ala Ser Met Gly Ser Ile
50      55      60
Gly Gln Tyr Pro Gly Val Leu Asp Ile Ile Glu Asn Val Trp Ile Glu
65      70      75      80
Asn Val Thr Leu Leu Asn Gly Glu Val Arg Asn Thr Leu Pro Leu Ser
85      90      95
Ser Arg Ser Thr Ser Asn Ser Ile Arg Thr Val Leu Val Ser Arg His
100     105     110
Gly Leu Val Pro Met Leu Ala Met Ala Ala Ser Thr Thr Ser Leu Thr
115     120     125

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13256

Arg Thr Ser Thr Ser Arg Thr Arg Thr Ile Leu Leu Ser Trp Ile Ser
 130 135 140
 Ala Thr Leu Thr
 145

<210> 33319
 <211> 92
 <212> PRT
 <213> A.fumigatus

<400> 33319
 Asp Pro Asn Asn Lys Tyr Tyr Arg Pro Ile Leu Phe Val Thr Glu Asn
 1 5 10 15
 Ala Thr Arg Val Ser Val Glu Gly Ile Thr Gln Leu Asn Ser Pro Cys
 20 25 30
 Trp Thr Asn Phe Phe Val Arg Thr Lys Asp Ile Ser Phe Asp Asn Val
 35 40 45
 Phe Ile His Ala Tyr Ser Thr Asn Ala Ser Val Gly Phe His Ser Leu
 50 55 60
 Val Glu Ala Glu Asp Lys Leu Thr Val Ala His Arg Arg Ser Pro Lys
 65 70 75 80
 Thr Arg Met Ala Ser Thr Arg Ser Thr Ser Met Asp
 85 90

<210> 33320
 <211> 139
 <212> PRT
 <213> A.fumigatus

<400> 33320
 Phe Tyr Gln Asn Gly Ala Arg Leu Lys Ala Trp Ala Gly Pro Asp Val
 1 5 10 15
 Gly Tyr Gly Arg Ile Asn Asn Val Thr Tyr Lys Asn Ile His Val Glu
 20 25 30
 Asn Thr Asp Asn Pro Ile Val Leu Asp Gln Cys Tyr Phe Asn Ile Asn
 35 40 45
 Ala Thr Gln Cys Ala Ala Tyr Pro Ser Arg Val Asn Phe Thr Asn Ile
 50 55 60
 Val Phe Glu Asp Ile Tyr Gly Thr Ser Ser Gly Lys Arg Gly Lys Val
 65 70 75 80
 Val Ala Asp Leu Thr Cys Ser Pro Asn Ala Val Cys Ser Gly Ile Arg
 85 90 95
 Leu Lys Asn Ile His Leu Thr Ser Pro Ala Gly Ser Pro Pro Val Ile
 100 105 110
 Val Cys Asp Gly Ile Gln Gly Asp Ile Gly Val Glu Cys Gln Ser Ser
 115 120 125
 Ser Asn Ser Thr Thr Lys Arg Ser Val Asp Leu
 130 135

<210> 33321
 <211> 75
 <212> PRT
 <213> A.fumigatus

<400> 33321
 Met Phe His His His Ser Ile Ile Arg Val Ile Leu Ser His Thr Leu

13257

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1           5           10           15
Gly Ser Ser Val Phe Cys Asn Ser His Asp Ile Tyr Ile Thr Gly Ser
      20           25           30
Phe Met Cys Phe Phe Pro Cys Leu Pro Leu Glu Pro Glu Ile Val Ile
      35           40           45
Tyr Met Ser Gln Ser Tyr Tyr Cys His Cys Gly Ser Asp Asp Cys Asp
      50           55           60
His Ser Asp Ile Gly Glu Asp Pro Ala Gly Ala
65           70           75

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<210> 33322

<211> 297

<212> PRT

<213> A.fumigatus

<400> 33322

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Ser Gln Thr Phe Phe Phe Leu Phe Ala Leu Ile Ser Leu Phe Thr Ser
1           5           10           15
Val Tyr Ile Gln Ser Trp Pro Gln Phe Ile Arg Ala Ser Ile Phe His
      20           25           30
Ala Leu Ala Ile Met Tyr His Tyr Ala Ser Pro Pro Pro Gly Trp Ser
      35           40           45
Ser Phe Asp Tyr Met Asn Ser Pro Pro Thr Ser Pro His Tyr Ala Tyr
      50           55           60
Tyr Ala Thr Gln Phe Ala Asn Pro Tyr Val Ser Pro Arg Gly Thr Ser
      65           70           75           80
Lys Arg His Asn Arg Lys Ala Ser Tyr Ala Ala Pro Arg Glu Ser Gly
      85           90           95
Ala Trp His Ser Gly Tyr Gly Gln Ser Phe Tyr Glu Ala Met Pro Glu
      100          105          110
Tyr Gly Thr Pro Pro Arg Lys His Glu Asn Val Ser Ala Phe Ser Gly
      115          120          125
Gly Tyr Ser Ser Cys Arg Arg Pro Arg Ala Arg Ser Val Ala Thr Gly
      130          135          140
Leu Trp Asp Lys Thr Gly Tyr His Phe His Glu Thr Pro Tyr Ser Ser
      145          150          155          160
Ala Gln Cys Arg Pro Ser Ile Phe Val Asp Val Val Asp Asp Val Phe
      165          170          175
Asp Asp Arg Pro Pro Val Thr Pro Lys Arg Asp Ser Tyr Ala Gln Ser
      180          185          190
Arg Arg Gln Pro Ser Leu Ser Gln Arg Lys Ala Arg Pro Pro Thr Asp
      195          200          205
Ser Tyr Phe Ser Ser Pro Gln Val Pro Ala Tyr Asp Asp Gln Asp Ser
      210          215          220
Pro Lys Arg Ser Arg Ala Arg Arg Gln Ser Thr Ser Thr Arg Thr Pro
      225          230          235          240
Ser Lys Pro Lys Pro Ser Ala Thr Pro Lys Ala Pro Pro Lys Ala Thr
      245          250          255
Glu Glu Asp Ala Ala Arg Ala Gly Ile Pro Pro Gly Tyr Ser Ile Lys
      260          265          270
Asn Trp Asp Pro Thr Glu Ala Pro Ile Ile Leu Leu Gly Ser Val Phe
      275          280          285
Glu Cys Gln Phe Asp Arg Pro Val Asp
      290          295

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<210> 33323

<211> 143
 <212> PRT
 <213> A.fumigatus

<400> 33323

Ala	Gly	Gln	Phe	Tyr	Ser	Ala	Ser	Trp	Trp	Ile	Ile	Met	Pro	Asp	Pro
1				5						10				15	
Ser	Gln	Gly	Gly	Phe	Arg	Ala	Pro	Ser	Ala	Ala	Asp	Ile	Arg	Thr	Met
		20						25					30		
Leu	Ser	Asp	Ile	Cys	Thr	Asn	Ser	Gly	Ala	Glu	Val	Ser	Phe	Asp	Asn
	35						40					45			
Leu	Thr	Phe	Thr	Ile	Asn	Gly	Ser	Asp	Asp	Ala	Val	Lys	Ser	Ala	Met
	50					55					60				
Met	Val	Val	Asn	Gln	Ile	Pro	Phe	Val	Lys	Arg	Ser	Gln	Tyr	Gln	Met
65					70					75					80
Arg	Val	Lys	Ile	Glu	Leu	Ala	Asn	Glu	His	Lys	Glu	Phe	Val	Ser	Gly
			85						90					95	
Lys	Lys	Asn	Gly	Lys	Ile	Asn	Lys	Ile	Met	Gly	Gln	Ser	Lys	Ser	Tyr
		100						105					110		
Phe	Gln	Gln	Thr	Val	Cys	Cys	Asn	Val	Ser	Leu	Thr	Phe	Phe	Arg	Gln
		115					120					125			
Arg	Ser	Asn	His	Ile	Arg	Trp	Leu	Gln	Arg	Val	Gln	Leu	Leu	His	
	130					135					140				

<210> 33324
 <211> 221
 <212> PRT
 <213> A.fumigatus

<400> 33324

Asp	Arg	Ser	Leu	Leu	Ser	Phe	Leu	Phe	Thr	Lys	Phe	Leu	Pro	Asp	Gln
1			5						10					15	
Leu	Pro	Pro	Phe	Pro	Ser	Cys	Ser	Leu	Ser	Ser	Leu	Ser	Pro	Arg	Leu
		20						25					30		
Ala	Gln	Gly	Val	Arg	Asp	Ser	Ile	Tyr	Ser	Gly	Val	Met	His	Lys	Ile
	35						40					45			
Ser	Asn	Phe	Thr	Gly	Gln	Ala	Arg	His	Gly	Trp	Glu	Arg	Met	Thr	Pro
	50					55					60				
Thr	Phe	Gly	Met	Ser	Arg	Pro	His	Thr	Asp	Met	Thr	Ser	His	Thr	Leu
65					70					75					80
Arg	Arg	Pro	His	Gly	Ala	Pro	Pro	Met	Thr	Pro	Pro	Thr	Gly	Ile	Asp
			85						90					95	
Pro	Thr	Val	Asn	Leu	Ser	Phe	Asn	Val	Pro	Phe	Ser	Ser	Thr	Leu	Ala
		100						105					110		
Gly	Pro	Asp	Ile	Asp	Asp	Val	Ile	His	Ala	Ser	Pro	Gly	Ala	Leu	Gln
		115					120					125			
Arg	Trp	Ser	Phe	Pro	Glu	Gly	Thr	Pro	Glu	Gly	Thr	Pro	Val	Tyr	Asn
	130					135					140				
Leu	Pro	Val	His	Ala	Asn	Val	Glu	Ser	Leu	Arg	Arg	Leu	Cys	Arg	
145					150				155					160	
Gln	Ile	Thr	Glu	Ser	Ser	Asn	Gly	Arg	Val	Glu	Ala	Val	Val	Thr	Ser
			165						170					175	
Ser	Glu	Pro	Lys	Ser	Val	Pro	Ser	Leu	Gln	Arg	Arg	Pro	Gln	Gly	Leu
		180						185					190		
Val	Thr	Asn	Val	Cys	Ile	Thr	Gly	Asp	Gly	Glu	Thr	Val	Arg	Lys	Met
		195					200						205		

Arg Ala Lys Ile Leu Asn Glu Thr Pro Ile Leu Leu Val
 210 215 220

<210> 33325

<211> 177

<212> PRT

<213> A.fumigatus

<400> 33325

Ser Trp Ala Leu Met His Arg Gln Leu Lys Arg His Val Asp Ala Met
 1 5 10 15
 Arg Leu Glu Leu Thr Met His Thr Leu Val Cys Gly Arg Thr Arg Lys
 20 25 30
 Asn Ile Lys Leu Ile Glu Ala Ala Thr Gly Thr Ala Ile Tyr Phe Pro
 35 40 45
 Pro Pro Phe Pro Arg Ile Phe Gly Tyr Thr Pro Pro Gly Ala His Arg
 50 55 60
 Arg Ser Glu Asp Glu Val Tyr Ile Thr Gly Asp Thr Gln Glu Gln Ile
 65 70 75 80
 Ala Arg Ala Lys Gln Lys Leu Arg Glu Leu Val Met Gly Val Lys Ile
 85 90 95
 Tyr Val Lys Asp Val Ile Val Asn Ser Asn Lys Ile Asp Asn Ile Leu
 100 105 110
 Leu Asp Arg Leu Asp Lys Val Arg Lys Val Met Glu Met Asn Gly Ser
 115 120 125
 Tyr Val Leu Phe Pro Gln Leu Gly Ser Gln Arg Gly Leu Val Arg Ile
 130 135 140
 Gln Gly Thr Glu Val Leu His Val Glu Arg Thr Val Arg Glu Ile Met
 145 150 155 160
 Ala Leu Val Arg Arg Ala Val Pro Ser Leu Ile Pro Ile Ala Phe Thr
 165 170 175
 Phe

<210> 33326

<211> 207

<212> PRT

<213> A.fumigatus

<400> 33326

Pro Ser Ser Gly Asn Val Gln Ile Ile Phe Asp Gly Phe Asn Glu Tyr
 1 5 10 15
 Asn Phe Tyr Ile Asp Val Cys Gly Asn Gln Tyr Glu Ser Thr Lys Asn
 20 25 30
 Gly Leu Asp Leu Val Glu Gln Glu Met Pro Ala Ser Ile Ser Phe His
 35 40 45
 Val Pro Asp Gln Tyr His Lys Arg Ile Ile Gly Ile Gly Gly Gln His
 50 55 60
 Ile Gln Arg Ile Met Lys Lys Tyr Ser Val Phe Val Lys Phe Ser Asn
 65 70 75 80
 Ala Met Asp Arg Gly Gly Met Gly Lys Glu Asp Asp Asp Ile Lys Val
 85 90 95
 Asp Asn Val Ile Cys Arg Thr Pro Ala Arg Asn Ala Gln Ser Leu Asp
 100 105 110
 Leu Val Lys Gln Glu Ile Met Asp Met Val Glu Lys Val Val Ser Gly
 115 120 125

Arg Ser Cys Arg Asp Ser Pro Ser Lys Val Gly Leu Leu Ile Ala Ile
 130 135 140
 Gln Asp Ala Glu Tyr Val Ser Glu Arg Val Val Ile Asn Arg Leu Tyr
 145 150 155 160
 His Arg Glu Leu Leu Ala Arg Met Ala Glu Ile Asp Glu Leu Glu Lys
 165 170 175
 Lys Trp Asn Cys Lys Ile Glu Phe Pro Ser Thr Glu Leu Ala Tyr Asp
 180 185 190
 Val Val Thr His Phe Gly Pro Pro Val Ser Gly Pro Ser Gly Leu
 195 200 205

<210> 33327

<211> 717

<212> PRT

<213> A.fumigatus

<400> 33327

Arg Cys Asn Glu Gly Glu His Pro Glu Gly Val Gly Lys Arg Lys Ser
 1 5 10 15
 Phe Gly Gly Leu Thr Glu Phe Thr Gly Gln Gly Pro Leu Trp Gly Arg
 20 25 30
 Gly Ser Ile Tyr Gly Thr Arg Trp Gly Ile Ser Glu Trp Met Ile Gly
 35 40 45
 Lys Leu Leu Leu Ser Ser Arg Phe Met Gly Ala Asp Asp Glu Ile Phe
 50 55 60
 Arg Pro Ser Phe Pro Ser Arg Asp Ala Asn Arg Arg Ala Ser Asn Ala
 65 70 75 80
 Glu Pro Gly Ser Ala Pro Leu Glu Lys Arg Thr Val Glu Glu Pro Asp
 85 90 95
 Pro Gly Arg Ala Tyr Gly Ser Leu Ser Thr Phe His His Val Gly Pro
 100 105 110
 Ala Thr Gly Ala Ser Arg Ile Ser Ala Leu Arg Ala Ala Arg Glu Ser
 115 120 125
 Val Thr Ser Ser Pro Ser Pro Pro Ser Ser Ala Tyr Arg Arg Pro Leu
 130 135 140
 Ser Ala Ala Arg Ala Ala Pro Thr Gly Arg Ala Ala Ala Leu Ala Ala
 145 150 155 160
 Glu Ala Ser Pro Ser Pro Leu Arg Arg Pro Ser Ile Ser Phe Gln Pro
 165 170 175
 Phe Lys Ala Pro Pro Leu Ser Ala Ser Pro Ser Leu Ile Asp Pro Pro
 180 185 190
 Leu Gly Ala Ser Pro Arg Ser Arg Pro Ile Val Ser Ala Pro Ser Ser
 195 200 205
 Glu Pro Lys His Met Pro Pro Pro Ser Val Ala Ala Ser Gly Arg Lys
 210 215 220
 Thr Gly Gln Ala Ala Ser Glu Asn Val Ile Ala Ser Ser Asn Ser Ala
 225 230 235 240
 Ser Pro Arg Pro Ala Pro Ile Ala Arg Tyr Ser Ser Ala Phe Ser His
 245 250 255
 Arg Arg Gly Arg Pro Ser Ser Gly Gly Ile Asn Lys Ile Glu Asp Asp
 260 265 270
 Ala Ser Ser Gly Lys Ala Ser Ala Thr Ser Ser Gly Ala Gln Pro Gly
 275 280 285
 Ser Gly Leu Leu Ala Glu Val Thr Gly Thr Ser Ala Asp Ser Leu His
 290 295 300
 Ala Asp Asp Glu Asn Ile Ser Glu Phe Leu Lys Met Leu Asp Leu Arg

305		310		315		320
Lys Asp Leu Leu Ser Pro Ser Asn Leu Ser Asn Leu Asp Ala Val Ala						
	325			330		335
Arg Arg Thr Thr Val Thr Ser Ala Ala Leu Thr Arg Phe Gln Arg Met						
	340			345		350
Arg Asp Ser Asn Ala Ala Leu Ser Glu Ser Met Ser Ser Ser Leu Leu						
	355			360		365
Leu Gln Arg Ser Ser Asn Ala Ser Ser Lys Gln Leu Ser Gly Val Pro						
	370			375		380
Pro Met Val Ala Gly Ala Ser Val Ser Thr Ala Ser Ser Pro Gly Lys						
385		390		395		400
Pro Ile Ser Pro His Thr Pro His Thr Pro Ala Ile Pro Ser Arg Leu						
	405			410		415
Ser Ser Asn Ser Ile Val Asp Tyr Asn Asp His Gly His Ser Asp Gly						
	420			425		430
Arg Leu Leu His Gly Gly Pro Thr Ser Leu Pro Glu Asp Thr Thr Gly						
	435			440		445
Glu Glu Thr Ala Leu Val His Arg Pro Pro Thr Val Thr Ala Ile Asp						
	450			455		460
Ile Pro Thr Ser Pro Arg Leu Phe Pro Pro Thr Tyr Arg Arg Ser Ser						
465		470		475		480
Ser Ala Ala Gln Asn Arg Arg Ser Val Val Ala Asp Glu Glu Glu Ile						
	485			490		495
Phe Pro Phe Asn Met Arg Ser Val Ser Leu Gly Ala Glu Glu Arg Thr						
	500			505		510
Asn Val Ser Leu Ser Thr Leu His Arg Arg His Glu Tyr His Asn Ala						
	515			520		525
Ala Thr Asn Pro Glu Gln Gln Gln Glu Ser Gln Arg Ala Ser Ser Ser						
	530			535		540
Ser Asp Gln Gly Pro Thr Ala Leu Pro Ser Pro Ala Lys Arg Glu Thr						
545		550		555		560
Arg Ser Gln Gly Asp Ala Thr Val Ser Gly Gln Thr Pro Asp Leu Ser						
	565			570		575
Ser Ser Ala Asn His Asn Leu Tyr Gln Pro Arg Leu Gly Gln Phe Arg						
	580			585		590
Ser Arg Gly Ser Phe Gly Gly Ala His Ser Leu Ser Ser Gly Ser Ser						
	595			600		605
Ser Leu Ala Arg Gly Gly Gly Ile Pro Thr Tyr Leu Thr Glu Arg Asp						
	610			615		620
Asn Asp Arg Asp Gly Asn Ala Ser Gly Ser Asn Ser Gly Asn Ser Thr						
625		630		635		640
Thr Glu Glu Arg Arg Gly Phe Gly Arg Arg Val Ser Ala Gly Arg Asn						
	645			650		655
Tyr Pro Pro His Pro Ser Gln Val Glu Glu Asp Glu Pro Leu Leu Phe						
	660			665		670
Ala Met Ser Asp Phe Gly Ala Ser Arg Arg Ser Phe Glu Glu Gly Arg						
	675			680		685
Gln Gly Asn His Gly Ala Asp Phe Gly Gly Ser Arg Arg Gly Ser Gly						
	690			695		700
Arg Arg Gly Ala Gly Val Pro Gly Phe His Val Trp Ser						
705		710		715		

<210> 33328

<211> 63

<212> PRT

<213> A.fumigatus

<400> 33328

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Ile Ser Arg Asp Leu Phe Arg Trp Ser Ile Ser Ala Ala Arg Phe Asp
1      5      10      15
Arg Ile Phe Ser Phe Tyr Lys Ser Leu Ser Ser Leu Pro Phe Thr Ile
      20      25      30
Ile Cys Glu Asp Asp Lys Ser Ser Ile Leu His His Leu Gly Leu Ile
      35      40      45
Ser Cys Ile Arg His Cys Arg Ile Ala Tyr Ser Lys Phe Trp Asn
      50      55      60

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<210> 33329

<211> 71

<212> PRT

<213> A.fumigatus

<400> 33329

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Leu Lys Arg Arg Ser Leu Arg Ile Asn Val Ile Val Pro Thr Ser Ala
1      5      10      15
Thr Phe Ile Gln Arg Leu Glu Gln Ala Thr Leu Arg Ser Ala Thr Asn
      20      25      30
Gly Ser Trp Gly Phe Arg Phe His Gly Leu Phe Thr Trp Glu Ala Tyr
      35      40      45
Ile Thr Ser Tyr Pro Pro Tyr Pro Gly Tyr Pro Phe Ser Ser Lys Phe
      50      55      60
Lys Gln Tyr Cys Arg Leu Gln
65      70

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<210> 33330

<211> 706

<212> PRT

<213> A.fumigatus

<400> 33330

```

Pro Arg Thr Arg Ile Leu Arg Asn Ser Cys Leu Val Gly Ser Thr Arg
1      5      10      15
Gln Ile Leu Arg Val Val Cys Ser Asn Trp Asp Ile Lys Asp Asp Ile
      20      25      30
Ser Val Met Asp Ile Asp Glu Glu Pro Ala Lys Asp Ala Val Glu Ser
      35      40      45
Ala Asp Glu Glu Asp Trp Leu Ala Glu Thr Thr Arg Pro Ala Lys Lys
      50      55      60
Arg Lys Leu Gly Arg Asp Pro Met Asp Val Ile Ala Leu Ser His Ile
      65      70      75      80
Asp Leu Pro Leu Leu Asp Asp Pro Glu Gln Ala Thr Met Arg Ile Ala
      85      90      95
Lys Lys Val Thr Ile Asp Met Asn Asp Pro Phe Ile Leu Leu Asp Glu
      100      105      110
Arg Gly Pro Glu Ala Val Ala Pro Lys Pro Lys Ala Leu Ala His Leu
      115      120      125
Asn Arg Glu Glu Met Asp Val Asn Val Thr Arg Arg Leu Thr Ser Arg
      130      135      140
Tyr Asn Ile Ser Asn Asp Gln Ala Tyr Asp Met Leu Lys Gln Asn His
      145      150      155      160
Gln Asn Lys Ile Arg Ser Thr Leu Gly Asn Val Thr Leu Glu His Ser
      165      170      175

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Met	Pro	Ala	Leu	Arg	Leu	Gln	Trp	Pro	Tyr	Tyr	Lys	Thr	Glu	Leu	Ala
			180					185					190		
Lys	Ala	Glu	Ala	Arg	Ser	Phe	His	Arg	Pro	Ala	Leu	Ser	Phe	Arg	Pro
			195				200					205			
Gly	Gln	Thr	Cys	Trp	Phe	Lys	Asn	Pro	Ala	Tyr	Ile	Lys	Arg	Lys	His
			210				215					220			
Gln	Lys	Gly	Lys	Asp	Ala	Lys	Thr	Leu	Tyr	Asp	Ser	Thr	Lys	Ala	Leu
225					230					235					240
Ser	Met	Ala	Asp	Asn	Ser	Asn	Val	Leu	Leu	Val	Glu	Tyr	Ser	Glu	Glu
				245					250					255	
Ser	Pro	Leu	Met	Leu	Ser	Asn	Phe	Gly	Met	Ser	Asn	Arg	Phe	Ile	Asn
			260					265					270		
Tyr	Tyr	Arg	Arg	Lys	Asn	Met	Glu	Asp	Ser	Thr	Arg	Pro	Lys	Ala	Glu
			275				280						285		
Ile	Gly	Glu	Thr	Val	Val	Leu	Leu	Pro	Gln	Asp	Lys	Ser	Pro	Phe	Ser
						295					300				
Ile	Phe	Gly	His	Val	Asp	Pro	Gly	Glu	Ile	Thr	Pro	Thr	Ile	Ser	Asn
305					310					315					320
Ser	Met	Tyr	Arg	Ala	Pro	Leu	Phe	Gln	His	Gln	Pro	Arg	Ser	Thr	Asp
				325					330					335	
Phe	Leu	Val	Val	Arg	Ser	Ser	Thr	Gly	Ala	Gly	Gly	Ser	Asp	Tyr	Tyr
			340					345					350		
Leu	Arg	Asn	Ile	Glu	His	Leu	Tyr	Val	Ala	Gly	Gln	Gln	Phe	Pro	Ser
			355					360					365		
Val	Asp	Val	Pro	Gly	Pro	His	Ser	Arg	Lys	Val	Thr	Thr	Val	Ala	Lys
					375						380				
Asn	Arg	Met	Lys	Met	Leu	Val	Tyr	Arg	Leu	Leu	Lys	Lys	Ser	Pro	Asp
385					390					395					400
Met	Arg	Leu	Ser	Ile	Ser	Asp	Val	Thr	Ala	His	Ile	Pro	Gly	Thr	Ser
				405					410					415	
Asp	Met	Gln	Asn	Arg	Gln	Lys	Val	Lys	Asp	Phe	Leu	Gln	His	Asp	Lys
			420					425					430		
Asp	Ser	Lys	Tyr	Trp	Val	Pro	Leu	Glu	Pro	Val	Pro	Glu	Ser	Asp	Thr
			435				440					445			
Ile	Arg	Ser	Trp	Val	Gln	Pro	Glu	Asp	Val	Cys	Leu	Leu	Glu	Ala	Met
			450			455					460				
Gln	Val	Gly	Gln	Gln	His	Leu	His	Asp	Thr	Gly	Tyr	Gly	Ile	Asp	Ala
465					470					475					480
Glu	Thr	Gly	Gly	Asp	Glu	Asp	Glu	Asp	Gly	Glu	Gly	Glu	Ser	Phe	Glu
				485					490					495	
Gln	Gln	Met	Ala	Pro	Trp	Lys	Ala	Thr	Arg	Asn	Phe	Leu	Leu	Ala	Ser
			500					505					510		
Gln	Gly	Lys	Ala	Met	Leu	Lys	Leu	His	Gly	Glu	Gly	Asp	Pro	Thr	Gly
			515				520					525			
Arg	Gly	Glu	Gly	Phe	Ser</										

Pro Ala Pro Asn Arg Arg Asp Asp Glu Thr Thr Ser Gln Phe Ser Lys
 625 630 635 640
 Met Ser Met Ala Asp Gln Lys Gly Lys Val Leu Arg Ile Val Arg Gln
 645 650 655
 Phe Lys Asp Glu Arg Gly Glu Ile Val Gln Lys Glu Thr Thr Val Trp
 660 665 670
 Asp Pro Arg Val Ile Arg His Tyr Ile Gln His Arg His Lys Met Glu
 675 680 685
 Ala Leu Thr Thr Lys Tyr Ala Cys Pro His Tyr Leu Pro Thr Leu Phe
 690 695 700
 Ile His
 705

<210> 33331

<211> 288

<212> PRT

<213> A.fumigatus

<400> 33331

Ser Leu Thr Val Ala Arg Ser Ala His Lys Ile Arg Asn Arg Ser Ser
 1 5 10 15
 Gln Asn Phe Lys Ala Val Thr Ser Ile Lys Ala His Leu Arg Trp Cys
 20 25 30
 Leu Thr Gly Thr Pro Ile His Asn Ser Leu Asp Asp Tyr Gly Ala Leu
 35 40 45
 Leu Ser Phe Ile Gly Val Pro Ala Leu Ser Asp Lys Pro Ala Phe Asp
 50 55 60
 Arg Trp Ile Ala Ser Pro Val Lys Gln Lys Gln Thr Gly Ser Leu Gln
 65 70 75 80
 Arg Leu Gln Tyr Leu Val Ala Ala Thr Ala Phe Arg Arg Thr Lys Ala
 85 90 95
 Met Val Lys Met Thr Val Ala Leu Pro Lys Lys Val Glu Arg Ile Glu
 100 105 110
 Ser Ile Gln Phe Thr Gly Ala Asp Arg Glu Leu Tyr Glu Phe Phe Lys
 115 120 125
 Val Lys Ala Ser Arg Leu Val Gly Gln Leu Thr Gly Phe Arg Gln Ser
 130 135 140
 Met Ala Ala Thr Ala Asp Asn Lys Lys Glu Ser Thr Leu Ser Leu Ile
 145 150 155 160
 Asn Leu Leu Arg Leu Ile Cys Asn His Gly Glu His Leu Leu Pro Ala
 165 170 175
 Ser Ala Ile Asn Glu Trp Arg Thr Arg Gln Asn Glu Gln Ile Thr Ser
 180 185 190
 Asp Val Tyr Phe Gly Arg His Pro Gly Gln Ser Ser Gln Arg Ala Ser
 195 200 205
 Val Pro Val Asp Arg Lys Thr Pro Glu Ser Gly Val Leu Thr Asn Gly
 210 215 220
 Glu Arg Ile Thr Asn Val Asn Thr Pro Tyr Pro Ser Ser Gln Glu Phe
 225 230 235 240
 Pro Met Ile Pro Asp Thr Ala Ser Ser Pro Leu Ala Pro Tyr Glu Val
 245 250 255
 Arg Leu Ser Pro Ser Ala Lys Val Lys Ala Leu Leu Lys Asn Leu Glu
 260 265 270
 Arg Glu Gln Ser Ala Asp Arg Gly Thr Ser Tyr Gln Pro Val Lys Arg
 275 280 285

<210> 33332
 <211> 70
 <212> PRT
 <213> A.fumigatus

<400> 33332
 Gln Gln Leu Ile Arg Arg Ile Asp Ser Val Asp Leu Thr Ala Ala Asn
 1 5 10 15
 Tyr Val His Leu Leu Glu Pro His Trp Asn Pro Met Val Glu Ala Gln
 20 25 30
 Ala Val Asp Arg Val His Arg Ile Gly Gln Ser Arg Glu Val Val Val
 35 40 45
 Thr Arg Tyr Phe Ile Glu Asn Ser Ile Glu Asp Val Arg Asn Leu Val
 50 55 60
 Ser Cys Ser Ala Pro Ile
 65 70

<210> 33333
 <211> 77
 <212> PRT
 <213> A.fumigatus

<400> 33333
 Arg Arg Ser Phe Asn Pro Asp Gln Thr Ser Leu Thr Arg Asp Ser Val
 1 5 10 15
 Ile Phe Ser Gln Trp Thr Arg Met Leu Asp Leu Val Ala Gln Ala Leu
 20 25 30
 Arg Lys His Ser Tyr Lys Tyr Ala Arg Ile Asp Gly His Ser Ser Leu
 35 40 45
 Ala Asp Arg Arg Ser Ala Ile Gln His Phe Asn Gly Asp Asn Asn Cys
 50 55 60
 Thr Val Met Leu Ala Ser Ile Gly Ser Ala Gly Glu Gly
 65 70 75

<210> 33334
 <211> 131
 <212> PRT
 <213> A.fumigatus

<220>
 <221> UNSURE
 <222> (48)
 <223> Identity of amino acid sequences at the above locations are unknown.

<400> 33334
 Leu Arg Gln Asn Leu Val Val Phe Gln Trp Tyr Tyr Val Phe Gln Arg
 1 5 10 15
 Glu Asp Ser Asp Gly Arg Ser Tyr Ser Arg Leu Glu Gly Thr Asp Ser
 20 25 30
 Lys Val Gly Leu Gly Thr Val Thr Met Arg Thr Gly Leu Ile Gly Xaa
 35 40 45
 Arg His Ile His Pro Gly Gln Val Arg Tyr Leu Val Tyr His Gly Arg
 50 55 60
 Lys Arg Arg Val Thr Gln Gln Ala Leu Ser Arg Asp Tyr Asp Ile Val
 65 70 75 80
 Ile Thr Thr Tyr Asp Thr Leu Leu Ser Asp Trp Arg Ala Gly Ser Gly

13266

				85					90				95				
Leu	His	Ser	Glu	Ile	Trp	Tyr	Arg	Val	Ala	Leu	Asp	Glu	Gly	Lys	Tyr		
			100					105					110				
Asp	Val	Asn	Gly	Glu	Ser	Tyr	Leu	Ser	Met	Ile	Ile	Asp	Ser	Cys	Thr		
		115					120					125					
Phe	Ser	Thr															
		130															

<210> 33335

<211> 141

<212> PRT

<213> A.fumigatus

<400> 33335

Ser	Val	Ser	Gly	Ala	Ser	Gly	Gly	Phe	Lys	Thr	Asp	Thr	Asp	Ile	Ser		
1			5					10						15			
Gly	Asn	Phe	Ala	Met	Arg	Glu	Arg	Ala	Leu	Lys	Arg	Trp	Glu	Pro	Ala		
			20					25					30				
Ala	Asp	Thr	Glu	Val	Asp	Leu	Ser	Leu	Glu	Ser	Thr	His	Asp	Thr	Ala		
			35				40					45					
Gly	Trp	Asp	Gln	Phe	Glu	Thr	Asn	Glu	Arg	Leu	Phe	Gly	Ala	Thr	Ser		
			50				55				60						
Ser	Tyr	Asp	Glu	Asn	Ile	Tyr	Thr	Thr	Arg	Ile	Asp	Arg	Ser	Asp	Pro		
65					70					75				80			
Ser	Tyr	Lys	Gln	Arg	Glu	Ala	Glu	Ala	Ala	Arg	Ile	Ala	Arg	Glu	Ile		
				85				90						95			
Glu	Ser	Thr	Asn	Val	Asp	Asn	Ile	His	Val	Arg	Glu	Glu	Arg	Gly	Leu		
			100					105					110				
Ala	Pro	Val	Asp	Asp	Ser	Gly	Leu	Asp	Glu	Glu	Asp	Lys	Ser	Arg	Gly		
		115					120					125					
Val	Arg	Leu	Leu	Ile	Arg	Pro	Pro	Leu	Ala	Val	Ser	Gly					
		130				135					140						

<210> 33336

<211> 165

<212> PRT

<213> A.fumigatus

<400> 33336

Leu	Thr	Leu	Ala	Ser	Ser	Glu	Asn	Leu	Ala	Arg	Ile	Ala	Val	Lys	His		
1			5					10					15				
Gln	Pro	His	Ser	Thr	Ile	Val	Ala	Asp	Ile	Leu	Asn	Leu	Pro	His	Pro		
			20					25				30					
Asp	Ser	Leu	Phe	Asp	Phe	Ala	Ile	Ser	Ile	Ala	Val	Val	His	His	Leu		
		35				40					45						
Ser	Thr	Pro	Glu	Arg	Arg	Ile	Arg	Ala	Ile	Arg	Glu	Ile	Leu	Arg	Thr		
		50				55					60						
Leu	Lys	Pro	Ala	Ser	Asp	Lys	Ser	Ser	Gly	Gly	Arg	Val	Leu	Leu	Tyr		
65					70				75					80			
Val	Trp	Ala	Leu	Glu	Gln	Lys	Thr	Ser	Arg	Arg	Gly	Trp	Asp	Lys	Gly		
				85				90					95				
Asp	Lys	Gln	Asp	Val	Met	Val	Pro	Trp	Val	Leu	Lys	Pro	Lys	Ser	Ala		
		100						105				110					
Asn	Gly	Ser	Ser	Asp	Asp	Glu	Pro	Arg	Thr	Phe	His	Arg	Tyr	Tyr	His		
		115					120					125					
Leu	Tyr	Glu	Ala	Thr	Glu	Leu	Glu	Arg	Asp	Ile	Glu	Arg	Ala	Gly	Gly		

13267

130 135 140
 Arg Val Leu Asp Ser Gly Tyr Glu Lys Asp Asn Trp Trp Ala Ile Ala
 145 150 155 160
 Thr Arg Ser Glu Glu
 165

<210> 33337
 <211> 147
 <212> PRT
 <213> A.fumigatus

<400> 33337
 Arg Gly Ser Ile Ala Pro Arg Gly Glu Asp Ala Gly Pro Val Thr Thr
 1 5 10 15
 Thr Ser Ala Phe Pro Ser Arg Thr Leu Pro Pro Ala Ser Met Gly Gln
 20 25 30
 Ala Met Pro Val Ala Ala Ser Thr Pro Leu Ser Ser Ala Pro Pro Leu
 35 40 45
 Thr Ala Lys Ile Pro Ala Ser Val Pro Ala Lys Arg Leu Gln Pro Ala
 50 55 60
 His Thr Ala Glu Ser Pro Ala Lys Lys Gln Ser Lys Trp Ser Pro Glu
 65 70 75 80
 Glu Asp Ala Leu Ile Ile Glu Leu Arg Gly Ser Gly Met Lys Trp Glu
 85 90 95
 Asp Ile Ser Lys Arg Leu Pro Gly Arg Ser Ala Ile Ser Cys Arg Leu
 100 105 110
 His Tyr Gln Asn Tyr Leu Glu Arg Arg Ser Glu Trp Asp Glu Asp Lys
 115 120 125
 Lys Asn Lys Leu Ala Arg Leu Tyr Glu Arg Tyr Val Ser Glu Lys Asn
 130 135 140
 Gly Pro Val
 145

<210> 33338
 <211> 237
 <212> PRT
 <213> A.fumigatus

<400> 33338
 Asp Ile His Asp Ser Tyr Glu Leu Pro Leu Thr Gln Ala Gly Phe Asp
 1 5 10 15
 Gly Ala Ile His Met Ser Glu Glu Val His Asn Pro Thr Thr Val Val
 20 25 30
 Pro Arg Ile Leu Ile Gln Thr Ile Leu Ile Asn Gly Thr Leu Ala Phe
 35 40 45
 Gly Phe Ile Leu Val Met Leu Phe Cys Ile Gly Asp Ile His Ser Ile
 50 55 60
 Leu His Ser Pro Thr Gly Phe Pro Ile Ile Ala Met Phe Tyr Gln Ala
 65 70 75 80
 Thr Gly Ser Val His Ala Thr Thr Ala Met Gln Ser Ala Ile Thr Leu
 85 90 95
 Ile Gly Ser Val Ser Asn Ile Ala Val Val Ala Ser Val Ser Arg Leu
 100 105 110
 Thr Trp Ala Phe Ala Arg Asp Gly Gly Leu Pro Tyr Ser Lys Phe Phe
 115 120 125
 Ala His Val Asp Gly Lys Tyr His Thr Pro Leu Arg Ala Ile Cys Leu

13268

130		135		140
Val Cys Phe Thr Val Val Leu Leu Ser Leu Val Asn Ile Ala Ser Thr				
145		150		155
Thr Ala Leu Ser Ala Val Leu Ala Leu Thr Thr Ser Ser Leu Phe Ile				160
	165		170	
Ser Tyr Ile Ile Pro Val Val Met Met Ala Arg Lys Arg Ile Arg Lys				175
	180		185	190
Glu Pro Ile Ala Phe Gly Pro Phe Ala Leu Gly Arg Trp Gly Leu Ala				
	195		200	205
Asn Asn Ile Tyr Ala Ile Val Phe Gly Val Phe Asn Leu Tyr Phe Arg				
	210		215	220
Val Ile Ser Asp Arg Asn Ser Cys Asp Arg Tyr Gln Tyr				
225		230		235

<210> 33339

<211> 82

<212> PRT

<213> A.fumigatus

<400> 33339

Ala Ala Gly Asn Leu Ser Leu Pro Ser Gly Phe Ala Pro Gly Leu Met				
1	5		10	15
Asn Gly Gly Pro Ala Ala Leu Val Trp Gly Met Leu Leu Ser Ile Thr				
	20		25	30
Gly Thr Met Ala Leu Ala Leu Ser Leu Gly Glu Met Ala Ser Ile Cys				
	35		40	45
Pro Leu Ala Gly Ala Gln Tyr His Trp Thr Ala Leu Leu Ala Pro Pro				
	50		55	60
Arg Ile Arg Ala Phe Ser Thr Trp Met Gln Gly Thr Ser Tyr Gly Lys				
65		70		75
Ala Val				80

<210> 33340

<211> 144

<212> PRT

<213> A.fumigatus

<400> 33340

Ser Ser Leu Thr Tyr Asp Ala Gly Trp Ile Thr Val Phe Gly Trp Gln				
1	5		10	15
Ala Ala Val Thr Ser Ile Ser Phe Leu Val Ala Thr Gln Ile Gln Gly				
	20		25	30
Leu Ile Ile Leu Asn Arg Pro Glu Tyr Glu Pro Gln Arg Trp His Gly				
	35		40	45
Thr Leu Leu Met Trp Ala Val Met Leu Phe Ser Leu Ser Ile Asn Val				
	50		55	60
Phe Ala Val Arg Ile Leu Pro Phe Leu Gln Leu Leu Gly Gly Leu Met				
65		70		75
His Val Val Phe Phe Ile Val Leu Ile Val Pro Leu Val Leu Leu Ser				
	85		90	95
Pro Arg Ser Thr Pro Glu Phe Val Phe Thr Glu Leu Leu Asn Gln Gly				
	100		105	110
Gly Trp Ser Ser Asp Gly Val Ser Trp Cys Leu Gly Met Leu Thr Val				
	115		120	125
His Tyr Cys Phe Thr Gly Lys Thr Phe Met Thr His Met Asn Phe His				

130

135

140

<210> 33341
 <211> 202
 <212> PRT
 <213> A.fumigatus

<400> 33341
 Thr Ser Thr Asp Ala Gly Arg Ile Arg Arg Gly His Pro His Glu Arg
 1 5 10 15
 Arg Ser Pro Gln Pro Asp His Arg Gly Pro Ser His Pro His Pro Asn
 20 25 30
 His Ser Tyr Gln Arg His Ser Gly Ile Arg Val His Ser Gly His Ala
 35 40 45
 Val Leu His Arg Arg His Ser Leu His Leu Thr Leu Ser His Arg Leu
 50 55 60
 Pro His His Arg His Val Leu Pro Gly His Arg Leu Arg Pro Arg Asn
 65 70 75 80
 Asn Ser Asn Ala Ile Gly His His Pro Asp Arg Leu Arg Leu Gln His
 85 90 95
 Arg Arg Arg Cys Val Arg Leu Pro Pro His Met Gly Phe Cys Pro Arg
 100 105 110
 Arg Arg Pro Ala Leu Phe Gln Val Leu Cys Ser Arg Gly Trp Gln Ile
 115 120 125
 Pro His Pro Pro Pro Arg His Leu Pro Arg Leu Leu His Cys Arg Pro
 130 135 140
 Ala Leu Pro Arg Gln His Arg Leu His His Arg Pro Gln Arg Cys Pro
 145 150 155 160
 Gly Pro His His Gln Leu Ala Phe His Leu Ile His His Pro Arg Arg
 165 170 175
 His Asp Gly Pro Glu Ala Tyr Thr Glu Gly Ala Asp Cys Val Arg Pro
 180 185 190
 Ile Cys Ala Trp Pro Met Gly Ser Gly Glu
 195 200

<210> 33342
 <211> 81
 <212> PRT
 <213> A.fumigatus

<400> 33342
 Thr Asp Met Ala Gly Thr Leu Pro Pro Leu Phe Pro Ile Ser Asp Glu
 1 5 10 15
 Asp His Ser Gly Tyr Val Ala Val Thr Val Tyr Thr Leu Leu Ser Leu
 20 25 30
 Thr Val Thr Thr Val Phe Val Arg Leu Phe Thr Arg Trp Tyr Ile Ala
 35 40 45
 Arg Asp Val Tyr Ser Asp Asp Val Leu Leu Thr Gly Ala Thr Val Ser
 50 55 60
 Ser Ser Thr Cys His Gly Leu Phe Leu Thr Gly Leu Thr Phe Asp Leu
 65 70 75 80
 Val

<210> 33343
 <211> 164

<212> PRT

<213> A.fumigatus

<400> 33343

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Leu Thr Asp Tyr Ser Phe Ala Pro Thr Lys Ile Tyr Leu Ser Leu Thr
1      5      10      15
Leu Ser Arg Pro Pro Leu Glu Gly Pro Leu Ile Thr Phe Ala Gln Phe
      20      25      30
Ile Val Thr Ala Val Phe Thr Leu Pro Asn Phe Val Ser Leu Ser Cys
      35      40      45
Gly Pro Arg Ser Leu Phe Leu Ser Pro Arg Val Ile Pro Leu Arg Ser
      50      55      60
Trp Leu Val Tyr Thr Ala Phe Phe Val Thr Val Asn Leu Leu Asn Asn
65      70      75      80
Trp Ala Phe Ala Tyr Ser Ile Ser Val Pro Leu His Ile Ile Leu Arg
      85      90      95
Ser Gly Gly Pro Val Ala Ser Leu Ile Val Gly Tyr Ser Phe Asn Gly
      100     105     110
Lys Lys Tyr Ser Tyr Gly Gln Ile Leu Ala Val Ala Val Leu Thr Leu
      115     120     125
Gly Val Val Thr Ala Ala Leu Ala Asp Ala Gln Ala Lys Gly Glu Pro
      130     135     140
Leu Gly Ile Gly His Gly Gly Ser Ser Pro Gln Gly Pro Thr Asp Pro
145     150     155     160
Arg Asn Glu Leu

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<210> 33344

<211> 91

<212> PRT

<213> A.fumigatus

<400> 33344

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Ile Val Asp Phe Pro Ala Ala Val Val Lys Thr Ser Leu Asp Pro Gly
1      5      10      15
Thr Glu Ser Ile Ile His His Ile Ile Asn Asn Glu Phe Thr Lys Gln
      20      25      30
Gly His Thr Val Ile Ile Met Ala His Lys Leu Ser Thr Leu Glu Lys
      35      40      45
His Met Lys Ala Gly Arg Asp Ala Val Ala Met Met Ala Asp Gly Arg
      50      55      60
Leu Asp Glu Val Ile Asn Tyr Leu Gly Pro Glu Thr Phe Gln Tyr Ser
65      70      75      80
Met Gln Met Gly His Arg Leu Thr Gly Thr Ser
      85      90

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<210> 33345

<211> 74

<212> PRT

<213> A.fumigatus

<400> 33345

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Tyr Ile Cys Phe Ser Tyr Lys Leu Ala Met Thr Gln Ser Phe Thr Gly
1      5      10      15
Thr Ser Asn Asn Phe Gln Leu Val Ile Ala Val Ala Ile Thr Ile Phe
      20      25      30

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